SITE INSPECTION PRIORITIZATION REPORT
DIAMOND AEROSOL CORP.
GLEN GARDNER, HUNTERDON COUNTY, NEW JERSEY

CERCLIS ID No.: NJD049644438

VOLUME II OF IV

EPA Contract No.: 68-W-00-121
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January 2002

Prepared for:
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Prepared by:
Region II Site Assessment Team
Roy F. Weston, Inc.
Edison, New Jersey 08837

200088

REFERENCE NO. 14

PROJECT NOTE	SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM	
To: Diamond Aerosol File	**Date:** 2/16/99	**Page**: 1 of 2
From: Scott Snyder		
Subject: Observations made during off-site reconnaissance		

On 16 February START member Scott Snyder conducted an off-site reconnaissance of the Diamond Aerosol site. START made the following observations: The site address is 62 Anthony Road; there are 4 residences within 200 feet of the site boundary, 3 on Anthony Road, 1 on Woodglen Road; an abandoned house on Anthony Road; the residence on Woodglen Road appeared to be a farm; there were no indications that immediate or emergency action was needed; the site was heavily wooded and there was no clear view of on-site activities from Anthony Road.

START spoke to Mr. Frank Bruno, owner of the Bruno Farm on Woodglen Road adjacent to the site entrance. Mr. Bruno stated that the site is active having noted that tractor trailer trucks are regularly seen entering and exiting the site. Mr. Bruno stated that his farm encompasses 15 acres and that groundwater is used to water livestock. Mr. Bruno also stated that his previous well which was screened at 90 feet below ground surface was contaminated with Freon and the testing was conducted sometime in 1994. Mr. Bruno then stated that a new well was installed to a depth of 110 feet. Mr. Bruno confirmed that the stream running past the site is the Spruce Run Creek.

PHOTO LOG

1. Site Entrance - 0915 Hrs. Looking North
2. Spruce Run Creek Tributary on east side of site - 0930 Hrs. Looking North
3. Spruce Run Creek Tributary on opposite site of Anthony Road - 0930 Hrs. Looking South
4. Bruno Farm Livestock - 0935 Hrs. Looking South
5. Bruno Farm - 0950 Hrs. Looking East.

TELECON NOTE	SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM	
CONTROL NO.: 02-00-02-0001	**DATE:** 6/28/00	**TIME:** 0900
DISTRIBUTION: Diamond Aerosol File		
BETWEEN: Frank Bruno	**OF:** Bruno Farm	**PHONE:** (908) 832-9784
AND: Scott Snyder	**Subject:** Bruno Farm Livestock	

START member Scott Snyder conducted a telephone conversation with Mr. Frank Bruno to ask if the livestock raised on the Bruno Farm is commercial. Mr. Bruno stated that the livestock raised on his farm is commercial.

REFERENCE NO. 15

State of New Jersey
Department of Environmental Protection and Energy
Water Supply Element
CN 029
Trenton, NJ 08625-0029
Tel. # 609-292-7219
Fax. # 609-292-1654

Scott A. Weiner
Commissioner

Steven P. Nieswand, P.E.
Administrator

OCTOBER 20, 1992

Hunterdon County Department of Health
County Administration Building
Flemington, NJ 08822-1396

Dear Mr. Beckley:

Re: Private Potable Well Water Analyses in vicinity of Diamond East Laboratories ECRA Case #85120

Summarized below are the significant (corrected) results of a water sample collected from a private potable well on 7/17/92 in Lebanon Township/Glen Gardner, Hunterdon County. This sample was analyzed for purgeable volatile organic compounds via EPA method 524.2. Our evaluation has been performed at the request of our Division of Publicly Funded Site Remediation (DPFSR), Bureau of Environmental Evaluation and Risk Assessment (BEERA) within the New Jersey Department of Environmental Protection and Energy (NJDEPE). This potable well was sampled as part of the ECRA site investigation.

Sample Number, Well Location: #49 Bruno Residence
Owner Address: Anthony Rd.

Table A- Regulated Health-based Compound/Element

Compound	Concentration in (ppb*)	Safe Drinking Water Act Primary Standard (ppb*)
benzene	ND	1
carbon tetrachloride	ND	1
chlorobenzene	ND	4
m-dichlorobenzene	ND	600
o-dichlorobenzene	ND	600
p-dichlorobenzene	ND	75
1,2 dichloroethane	ND	2
1,1 dichloroethylene	ND	2
cis-1,2 dichloroethylene	ND	10
trans-1,2 dichloroethylene	ND	10
methylene chloride	ND	2
tetrachloroethylene	ND	1
trichlorobenzenes	ND	8
1,1,1 trichloroethane	ND	26
trichloroethylene	ND	1

vinyl chloride	ND	2
xylenes	ND	44

*ppb = parts per billion ND = not detected in sample

Table C - Unregulated Compound/Element

Compound	Concentration (ppb*)	No Standard Set

*ppb = parts per billion

Freon 113	5.0*
1,2 -Dichloro-1,1,2 -trifluoroethane	0.7J

* Previous letter incorrectly listed this value as 0.5 ppb. All comments/requirements below remain the same.

By copy of this letter, the property owner is informed that based upon this sample, water obtained from this well meets New Jersey Safe Drinking Water Act (NJA-280) drinking water standards for those compounds for which analyses were performed. However, as is indicated in Table C, one compound-Freon 113 (an on-site contaminant) and one of its breakdown products have been detected. Although the levels detected do not appear to be a health concern, re-sampling for volatile organics (VOs) is required for this residence.

It is recommended that you provide guidance and assistance to the property owner/user if warranted.

Very truly yours,

Barker G. Hamill, Chief
Bureau of Safe Drinking Water

Enclosure

c: Bruno Residence, Anthony Rd., Lebanon Township/Glen Gardner, NJ
Frank Camera, Technical Coordinator, BEERA
Grace Jacob, Case Manager, BEERA
Renee Bancroft, Geologist, BGWDC

D: PWLGRAY.FC
HS: 302/KEM

REFERENCE NO. 16

EnviroTest Laboratories Inc.

315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890
Fax (914) 562-0841

February 22, 1993

Vincent Uhl Associates
1078 Taylorsville Road, Box 93
Washington Crossing, Pennsylvania 18977

Attention: Mr. Tony Rana

SUBJECT: CASE NARRATIVE, Biggs - Diamond East,
ETL NUMBER 120199.

Dear Mr. Rana:

Enclosed are the analytical results for the Biggs - Diamond East project. The samples were received on January 30, 1993, and were prepared and analyzed according to EPA established methodologies and protocols. The reports were completed according to client requested reporting requirements.

Your evaluation of the enclosed data should incorporate the use of the attached case narrative.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

ENVIROTEST LABORATORIES, INC.

Ronald A. Bayer
Laboratory Director

CASE NARRATIVE
Client: Vincent Uhl Associates, Inc.
Date 2/2/93
ETL Lab No. 120199

Volatile Organics

Surrogate Recovery

The following spiked samples contain surrogate recovery that exceed the acceptable control limits. A reanalysis of the spikes for surrogate failure is not required.

Res Well #49 (120199-01MS): fails 1,2-dichloroethane-d4
Res Well #49 (120199-01MSD): fails toluene-d8

EnviroTest
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

EnviroTest Laboratories Inc.

SITE SHEET

315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

Laboratory Number: 120199 Date Collected: 1/29/93

Project Number/PO NO: Date Received: 1/30/93

Project Location: Biggs - Diamond East

Company Name: Vincent UHL Assoc. Inc

Contact: Tony Rana Phone: (215) 321-2210

Address: 1078 Taylorsville Rd Box 93

City/State/Zip: Washington Crossing, PA 18977

TURNAROUND

N ☒ Q ☐ V ☐

REPORTING REQUIREMENTS

NORM ☐ NJ ECRA ☐
US EPA CLP ☐ NY ASP A ☐
NY ASP B ☐ NY ASP CLP ☐
OTHER Tier I
NJ CIP

ETL PRO. MGR.

$1040

Analysis Requested

EnviroTest Sample No.	Client Sample ID.	Matrix	Analysis
* 01	Residential Well #49 (Bruno)	H_2O	524 +15, Fr-113
02	Trip Blank	H_2O	524 +15, Fr-113

Comments * Sample 01 Contains Sample Sets 5 or MS/MSD

Signature P. Bauer 2/2/93 Date Time

00002

CHAIN OF CUSTODY RECORD

EnviroTest Laboratories Inc.
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

1078 Taylorsville Rd
P.O. Box 93
Washington Crossing, PA 18977

Company Name, Location: VINCENT UHL ASSOC
Project Name/Number/State: DIAMOND EAST
Project Coordinator: TONY KANA
Air Bill No. 4630755091
Carrier: Fed Ex

SAMPLING DATE	TIME AM PM	COMP.	GRAB	SAMPLE I.D. No.		Total Number of Containers	40ml Glass HCL	Liter Amber Sulfuric Acid	Liter Amber Organic Washed	Liter Plastic Nitric Acid	Liter Plastic Sodium Hydroxide	Liter Plastic	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250 ml Amber	2 oz. Ooipak	ANALYSIS
1/29/93	1445		X	RESIDENTIAL WELL #49 (BRUNO)	KMD	~~3~~ 2	3											524.2 (+15 ~~+10~~), Fr 113
			X															
1/29/93	1445		X	RESIDENTIAL WELL #49 (BRUNO)	MS	3	3											524.2 (+15 ~~+10~~), Fr 113
1/29/93	1445		X	RESIDENTIAL WELL #49 (BRUNO)	MSD	3	3											524.2 (+15 ~~+10~~), Fr 113
				Trip Blank		1	1											524.2 (+15 ~~+10~~), Fr 113

00003

Relinquished by EnviroTest Laboratories	Custody Shipping Number	Date / Time	Received by	Date / Time
Print: PAUL PULLAR Signature: Paul Pullar		Date: 1/27/93 Time: 11:07	Print: Signature:	

Relinquished by	Date / Time	Received by	Date / Time	Relinquished by	Date / Time	Received by ETL	Date / Time
Print: KEVIN J. MCKEEVER Signature: Kevin J. McKeever	Date: 1/29/93 Time: 1630			Print: Signature:		Print: PAUL PULLAR Signature: Paul Pullar	Date: 1/30/93 Time: 9:15

REMARKS: TIER I - CIP NJ

VOLATILE ORGANIC LABORATORY CHRONICLE--ENVIROTEST LABORATORIES, INC.

ETL Laboratory Number: 120199
Client Project Number: Biggs Diamond East

Date Receipt/Refrigeration: 1/30/93
Date Sampled: 1/29/93
Preservative: 4°C, HCl

Sample Relinquished by	Sample Received by	Date	Time	Reason for Change of Custody
Paul Miller	Susan Morrado	1/30/93		Storage & Analysis

Analysis:
Volatiles-GC
Volatiles-GC/MS SC 2/5/93

Re-Analysis:
Volatiles-GC
Volatiles-GC/MS
Section Supervisor Review and Approval

doc. 1.0 12/7/89 ETL, Inc.

EnviroTest
3-5 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: Residential Well #49 (Bruno)
EnviroTest Lab No: 120199-01
Client Name: Vincent Uhl Associates
Project Name: Biggs - Diamond East
Matrix: Water
Sample Wt/Vol: 25 ml
Level: Low

Date Collected: 1/29/93
Date Received: 1/30/93
Date Analyzed: 2/5/93
Report Date: 2/11/93
Column: 75m x 0.53mm DB-624
Lab File ID: >V6759
Dilution Factor: 1

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l
75-71-8	Dichlorodifluoromethane	0.5	U	108-88-3	Toluene	0.5	U
74-87-3	Chloromethane	0.5	U	79-01-6	Tetrachloroethylene	0.5	U
75-01-4	Vinyl chloride	0.5	U	108-90-7	Chlorobenzene	0.5	U
74-83-9	Bromomethane	0.5	U	630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
75-00-3	Chloroethane	0.5	U	100-41-4	Ethylbenzene	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U	108-38-3/106-42-3	m,p-Xylene	0.5	U
75-35-4	1,1-Dichloroethylene	0.5	U	95-47-6	o-Xylene	0.5	U
75-09-2	Methylene chloride	0.5	U	100-42-5	Styrene	0.5	U
156-60-5	trans-1,2-Dichloroethylene	0.5	U	96-18-4	1,2,3-Trichloropropane	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U	98-82-8	Isopropylbenzene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U	108-86-1	Bromobenzene	0.5	U
156-59-4	cis-1,2-Dichloroethylene	0.5	U	103-65-1	n-Propylbenzene	0.5	U
67-66-3	Chloroform	0.5	U	79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U	95-49-8	2-Chlorotoluene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U	106-43-4	4-Chlorotoluene	0.5	U
74-97-5	Bromochloromethane	0.5	U	108-67-8	1,3,5-Trimethylbenzene	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U	98-06-6	tert-Butylbenzene	0.5	U
56-23-5	Carbon tetrachloride	0.5	U	95-63-6	1,2,4-Trimethylbenzene	0.5	U
71-43-2	Benzene	0.5	U	135-98-8	sec-Butylbenzene	0.5	U
79-01-6	Trichloroethylene	0.5	U	541-73-1	1,3-Dichlorobenzene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U	99-87-6	4-Isopropyltoluene	0.5	U
74-95-3	Dibromomethane	0.5	U	104-46-7	1,4-Dichlorobenzene	0.5	U
75-27-4	Bromodichloromethane	0.5	U	95-50-1	1,2-Dichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U	104-51-8	n-Butylbenzene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U	87-68-3	Hexachlorobutadiene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U	120-82-1	1,2,4-Trichlorobenzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U	91-20-3	Napthalene	0.5	U
124-48-1	Dibromochloromethane	0.5	U	87-61-6	1,2,3-Trichlorobenzene	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U	96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
75-25-2	Bromoform	0.5	U	76-13-1	Freon 113	0.5	4.7

FORM I - VOA

EnviroTest
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

ORGANICS DATA RESULT FORM

TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: Residential Well #49 (Bruno)
EnviroTest Lab No: 120199-01
Client Name: Vincent Uhl Associates
Project Name: Biggs - Diamond East
% Solid:
Matrix: Water
Sample Wt/Vol: 25 ml
Fraction: VOA

Date Collected: 1/29/93
Date Received: 1/30/93
Date Analyzed: 2/5/93
Report Date: 2/11/93
Level: Low
Column: 75m x 0.53mm DB-624
Lab File ID: V6759
Dilution Factor: 1

CAS NO.	COMPOUND	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/l)

No extra peaks detected in VOA fraction
at >10% of internal standards.

FORM I TIC - VOA

EnviroTest Laboratories Inc.
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: Trip Blank
EnviroTest Lab No: 120199-02
Client Name: Vincent Uhl Associates
Project Name: Biggs - Diamond East
Matrix: Water
Sample Wt/Vol: 25 ml
Level: Low

Date Collected: 1/29/93
Date Received: 1/30/93
Date Analyzed: 2/5/93
Report Date: 2/11/93
Column: 75m x 0.53mm DB-624
Lab File ID: >V6758
Dilution Factor: 1

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l
75-71-8	Dichlorodifluoromethane	0.5	U	108-88-3	Toluene	0.5	U
74-87-3	Chloromethane	0.5	U	79-01-6	Tetrachloroethylene	0.5	U
75-01-4	Vinyl chloride	0.5	U	108-90-7	Chlorobenzene	0.5	U
74-83-9	Bromomethane	0.5	U	630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
75-00-3	Chloroethane	0.5	U	100-41-4	Ethylbenzene	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U	108-38-3/106-42-3	m,p-Xylene	0.5	U
75-35-4	1,1-Dichloroethylene	0.5	U	95-47-6	o-Xylene	0.5	U
75-09-2	Methylene chloride	0.5	U	100-42-5	Styrene	0.5	U
156-60-5	trans-1,2-Dichloroethylene	0.5	U	96-18-4	1,2,3-Trichloropropane	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U	98-82-8	Isopropylbenzene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U	108-86-1	Bromobenzene	0.5	U
156-59-4	cis-1,2-Dichloroethylene	0.5	U	103-65-1	n-Propylbenzene	0.5	U
67-66-3	Chloroform	0.5	U	79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U	95-49-8	2-Chlorotoluene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U	106-43-4	4-Chlorotoluene	0.5	U
74-97-5	Bromochloromethane	0.5	U	108-67-8	1,3,5-Trimethylbenzene	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U	98-06-6	tert-Butylbenzene	0.5	U
56-23-5	Carbon tetrachloride	0.5	U	95-63-6	1,2,4-Trimethylbenzene	0.5	U
71-43-2	Benzene	0.5	U	135-98-8	sec-Butylbenzene	0.5	U
79-01-6	Trichloroethylene	0.5	U	541-73-1	1,3-Dichlorobenzene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U	99-87-6	4-Isopropyltoluene	0.5	U
74-95-3	Dibromomethane	0.5	U	104-46-7	1,4-Dichlorobenzene	0.5	U
75-27-4	Bromodichloromethane	0.5	U	95-50-1	1,2-Dichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U	104-51-8	n-Butylbenzene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U	87-68-3	Hexachlorobutadiene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U	120-82-1	1,2,4-Trichlorobenzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U	91-20-3	Napthalene	0.5	U
124-48-1	Dibromochloromethane	0.5	U	87-61-6	1,2,3-Trichlorobenzene	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U	96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
75-25-2	Bromoform	0.5	U	76-13-1	Freon 113	0.5	U

FORM I - VOA

EnviroTest Laboratories Inc
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890
FAX (914) 562-0841

ORGANICS DATA RESULT FORM

TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: Trip Blank
EnviroTest Lab No: 120199-02
Client Name: Vincent Uhl Associates
Project Name: Biggs - Diamond East
% Solid:
Matrix: Water
Sample Wt/Vol: 25 ml
Fraction: VOA

Date Collected: 1/29/93
Date Received: 1/30/93
Date Analyzed: 2/5/93
Report Date: 2/11/93
Level: Low
Column: 75m x 0.53mm DB-624
Lab File ID: V6758
Dilution Factor: 1

CAS NO.	COMPOUND	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/l)

No extra peaks detected in VOA fraction
at >10% of internal standards.

FORM I TIC - VOA

EnviroTest Laboratories Inc.
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890
FAX (914) 562-0841

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: VBLK01
EnviroTest Lab No: VBLK01
Client Name: Vincent Uhl Associates
Project Name: Biggs - Diamond East
Matrix: Water
Sample Wt/Vol: 25 ml
Level: Low

Date Collected:
Date Received:
Date Analyzed: 2/5/93
Report Date: 2/11/93
Column: 75m x 0.53mm DB-624
Lab File ID: >V6756
Dilution Factor: 1

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l
75-71-8	Dichlorodifluoromethane	0.5	U	108-88-3	Toluene	0.5	U
74-87-3	Chloromethane	0.5	U	79-01-6	Tetrachloroethylene	0.5	U
75-01-4	Vinyl chloride	0.5	U	108-90-7	Chlorobenzene	0.5	U
74-83-9	Bromomethane	0.5	U	630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
75-00-3	Chloroethane	0.5	U	100-41-4	Ethylbenzene	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U	108-38-3/106-42-3	m,p-Xylene	0.5	U
75-35-4	1,1-Dichloroethylene	0.5	U	95-47-6	o-Xylene	0.5	U
75-09-2	Methylene chloride	0.5	U	100-42-5	Styrene	0.5	U
156-60-5	trans-1,2-Dichloroethylene	0.5	U	96-18-4	1,2,3-Trichloropropane	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U	98-82-8	Isopropylbenzene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U	108-86-1	Bromobenzene	0.5	U
156-59-4	cis-1,2-Dichloroethylene	0.5	U	103-65-1	n-Propylbenzene	0.5	U
67-66-3	Chloroform	0.5	U	79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U	95-49-8	2-Chlorotoluene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U	106-43-4	4-Chlorotoluene	0.5	U
74-97-5	Bromochloromethane	0.5	U	108-67-8	1,3,5-Trimethylbenzene	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U	98-06-6	tert-Butylbenzene	0.5	U
56-23-5	Carbon tetrachloride	0.5	U	95-63-6	1,2,4-Trimethylbenzene	0.5	U
71-43-2	Benzene	0.5	U	135-98-8	sec-Butylbenzene	0.5	U
79-01-6	Trichloroethylene	0.5	U	541-73-1	1,3-Dichlorobenzene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U	99-87-6	4-Isopropyltoluene	0.5	U
74-95-3	Dibromomethane	0.5	U	104-46-7	1,4-Dichlorobenzene	0.5	U
75-27-4	Bromodichloromethane	0.5	U	95-50-1	1,2-Dichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U	104-51-8	n-Butylbenzene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U	87-68-3	Hexachlorobutadiene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U	120-82-1	1,2,4-Trichlorobenzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U	91-20-3	Napthalene	0.5	U
124-48-1	Dibromochloromethane	0.5	U	87-61-6	1,2,3-Trichlorobenzene	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U	96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
75-25-2	Bromoform	0.5	U	76-13-1	Freon 113	0.5	U

FORM I - VOA

EnviroTest
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

ORGANICS DATA RESULT FORM

TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: VBLK01
EnviroTest Lab No: VBLK01
Client Name: Vincent Uhl Associates
Project Name: Biggs - Diamond East
% Solid:
Matrix: Water
Sample Wt/Vol: 25 ml
Fraction: VOA

Date Collected:
Date Received:
Date Analyzed: 2/5/93
Report Date: 2/11/93
Level: Low
Column: 75m x 0.53mm DB-624
Lab File ID: V6756
Dilution Factor: 1

CAS NO.	COMPOUND	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/l)

No extra peaks detected in VOA fraction
at >10% of internal standards.

FORM I TIC - VOA

EnviroTest
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: Residential Well #49 (Bruno)
EnviroTest Lab No: 120199-01 MS
Client Name: Vincent Uhl Associates
Project Name: Biggs - Diamond East
Matrix: Water
Sample Wt/Vol: 25 ml
Level: Low

Date Collected: 1/29/93
Date Received: 1/30/93
Date Analyzed: 2/5/93
Report Date: 2/11/93
Column: 75m x 0.53mm DB-624
Lab File ID: >V6760
Dilution Factor: 1

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l
75-71-8	Dichlorodifluoromethane	5.0	4.3	108-88-3	Toluene	5.0	5.0
74-87-3	Chloromethane	5.0	4.7	79-01-6	Tetrachloroethylene	5.0	4.7
75-01-4	Vinyl chloride	5.0	4.7	108-90-7	Chlorobenzene	5.0	5.3
74-83-9	Bromomethane	5.0	5.1	630-20-6	1,1,1,2-Tetrachloroethane	5.0	5.2
75-00-3	Chloroethane	5.0	5.1	100-41-4	Ethylbenzene	5.0	4.9
75-69-4	Trichlorofluoromethane	5.0	4.5	108-38-3/106-42-3	m,p-Xylene	5.0	10.1
75-35-4	1,1-Dichloroethylene	5.0	4.7	95-47-6	o-Xylene	5.0	5.5
75-09-2	Methylene chloride	5.0	5.3	100-42-5	Styrene	5.0	4.9
156-60-5	trans-1,2-Dichloroethylene	5.0	5.0	96-18-4	1,2,3-Trichloropropane	5.0	5.7
75-34-3	1,1-Dichloroethane	5.0	5.0	98-82-8	Isopropylbenzene	5.0	4.8
590-20-7	2,2-Dichloropropane	5.0	4.4	108-86-1	Bromobenzene	5.0	5[illegible]
156-59-4	cis-1,2-Dichloroethylene	5.0	5.1	103-65-1	n-Propylbenzene	5.0	4[illegible]
67-66-3	Chloroform	5.0	5.2	79-34-5	1,1,2,2-Tetrachloroethane	5.0	5.6
563-58-6	1,1-Dichloropropene	5.0	4.9	95-49-8	2-Chlorotoluene	5.0	5.1
107-06-2	1,2-Dichloroethane	5.0	5.6	106-43-4	4-Chlorotoluene	5.0	5.1
74-97-5	Bromochloromethane	5.0	5.6	108-67-8	1,3,5-Trimethylbenzene	5.0	4.9
71-55-6	1,1,1-Trichloroethane	5.0	4.8	98-06-6	tert-Butylbenzene	5.0	4.8
56-23-5	Carbon tetrachloride	5.0	4.7	95-63-6	1,2,4-Trimethylbenzene	5.0	4.9
71-43-2	Benzene	5.0	5.2	135-98-8	sec-Butylbenzene	5.0	4.7
79-01-6	Trichloroethylene	5.0	5.1	541-73-1	1,3-Dichlorobenzene	5.0	5.3
78-87-5	1,2-Dichloropropane	5.0	5.5	99-87-6	4-Isopropyltoluene	5.0	4.9
74-95-3	Dibromomethane	5.0	5.7	104-46-7	1,4-Dichlorobenzene	5.0	5.2
75-27-4	Bromodichloromethane	5.0	5.5	95-50-1	1,2-Dichlorobenzene	5.0	5.4
10061-01-5	cis-1,3-Dichloropropene	5.0	5.4	104-51-8	n-Butylbenzene	5.0	4.8
10061-02-6	trans-1,3-Dichloropropene	5.0	5.6	87-68-3	Hexachlorobutadiene	5.0	5.6
79-00-5	1,1,2-Trichloroethane	5.0	5.6	120-82-1	1,2,4-Trichlorobenzene	5.0	4.7
142-28-9	1,3-Dichloropropane	5.0	5.6	91-20-3	Napthalene	5.0	5.5
124-48-1	Dibromochloromethane	5.0	5.7	87-61-6	1,2,3-Trichlorobenzene	5.0	5.7
106-93-4	1,2-Dibromoethane	5.0	5.9	96-12-8	1,2-Dibromo-3-chloropropane	5.0	5.5
75-25-2	Bromoform	5.0	5.8	76-13-1	Freon 113	5.0	U

FORM I - VOA

EnviroTest
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: Residential Well #49 (Bruno)
EnviroTest Lab No: 120199-01 MSD
Client Name: Vincent Uhl Associates
Project Name: Biggs - Diamond East
Matrix: Water
Sample Wt/Vol: 25 ml
Level: Low

Date Collected: 1/29/93
Date Received: 1/30/93
Date Analyzed: 2/5/93
Report Date: 2/11/93
Column: 75m x 0.53mm DB-624
Lab File ID: >V6761
Dilution Factor: 1

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l
75-71-8	Dichlorodifluoromethane	5.0	4.4	108-88-3	Toluene	5.0	5.0
74-87-3	Chloromethane	5.0	4.7	79-01-6	Tetrachloroethylene	5.0	4.6
75-01-4	Vinyl chloride	5.0	4.6	108-90-7	Chlorobenzene	5.0	5.1
74-83-9	Bromomethane	5.0	4.9	630-20-6	1,1,1,2-Tetrachloroethane	5.0	5.0
75-00-3	Chloroethane	5.0	4.9	100-41-4	Ethylbenzene	5.0	5.0
75-69-4	Trichlorofluoromethane	5.0	4.7	108-38-3/106-42-3	m,p-Xylene	5.0	10.1
75-35-4	1,1-Dichloroethylene	5.0	4.7	95-47-6	o-Xylene	5.0	5.1
75-09-2	Methylene chloride	5.0	5.3	100-42-5	Styrene	5.0	4.3
156-60-5	trans-1,2-Dichloroethylene	5.0	4.9	96-18-4	1,2,3-Trichloropropane	5.0	5.5
75-34-3	1,1-Dichloroethane	5.0	5.1	98-82-8	Isopropylbenzene	5.0	4.8
[illegible]0-7	2,2-Dichloropropane	5.0	4.5	108-86-1	Bromobenzene	5.0	5.1
156-59-4	cis-1,2-Dichloroethylene	5.0	5.0	103-65-1	n-Propylbenzene	5.0	5.0
67-66-3	Chloroform	5.0	5.1	79-34-5	1,1,2,2-Tetrachloroethane	5.0	5.2
563-58-6	1,1-Dichloropropene	5.0	4.8	95-49-8	2-Chlorotoluene	5.0	4.8
107-06-2	1,2-Dichloroethane	5.0	5.4	106-43-4	4-Chlorotoluene	5.0	4.9
74-97-5	Bromochloromethane	5.0	5.3	108-67-8	1,3,5-Trimethylbenzene	5.0	4.9
71-55-6	1,1,1-Trichloroethane	5.0	4.8	98-06-6	tert-Butylbenzene	5.0	4.8
56-23-5	Carbon tetrachloride	5.0	4.8	95-63-6	1,2,4-Trimethylbenzene	5.0	4.9
71-43-2	Benzene	5.0	5.0	135-98-8	sec-Butylbenzene	5.0	4.8
79-01-6	Trichloroethylene	5.0	5.1	541-73-1	1,3-Dichlorobenzene	5.0	5.1
78-87-5	1,2-Dichloropropane	5.0	5.2	99-87-6	4-Isopropyltoluene	5.0	5.0
74-95-3	Dibromomethane	5.0	5.4	104-46-7	1,4-Dichlorobenzene	5.0	5.0
75-27-4	Bromodichloromethane	5.0	5.3	95-50-1	1,2-Dichlorobenzene	5.0	5.1
10061-01-5	cis-1,3-Dichloropropene	5.0	5.3	104-51-8	n-Butylbenzene	5.0	5.0
10061-02-6	trans-1,3-Dichloropropene	5.0	5.3	87-68-3	Hexachlorobutadiene	5.0	4.9
79-00-5	1,1,2-Trichloroethane	5.0	5.3	120-82-1	1,2,4-Trichlorobenzene	5.0	5.1
142-28-9	1,3-Dichloropropane	5.0	5.4	91-20-3	Napthalene	5.0	5.2
124-48-1	Dibromochloromethane	5.0	5.3	87-61-6	1,2,3-Trichlorobenzene	5.0	5.4
106-93-4	1,2-Dibromoethane	5.0	5.4	96-12-8	1,2-Dibromo-3-chloropropane	5.0	5.1
75-25-2	Bromoform	5.0	5.6	76-13-1	Freon 113	5.0	U

FORM I - VOA

EnviroTest
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

Form ECRA-007
6/87

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

APR 05 1993

ECRA MEMORANDUM

DATE 4/2/93

TO Grace Jacob
Case Manager, BISE

FROM Frank Cameron
Tech. Coordinator, BEERA

ECRA CASE NAME Diamond East in Lebanon Twp. CASE # B130

RESPONSE TO YOUR 3/26/93 Date REFERRAL OF:

☐ SAMPLING PLAN ☑ DATA ☐ CLEANUP PLAN ☐ OTHER
DR- Potable

COMMENTS

Please find attached the BEMQA review of potable water sampling event.

It should be noted that the result was not only qualified but also re-calculated to be 4.9 J ppb (of Freon 113). This level of contaminant is similar to what was observed for the July 92 sampling round.

Recommendations at this time would be: 1) re-sampling as part of the on-going GW sampling program and 2) for the future laboratory utilized to perform initial calibration std runs within 8 hrs of the associated GC/MS BFB tune and to use the mean RF from the initial calibration to calculate the concentrations.

In addition, a revised COC shall be submitted which indicates 1/27/93 & 1/29/93 signatures by the recipient of the samples - this does not affect the data and contents above.

Note to CM: As indicated in my prior memo future GW sampling shall include targetting for Freon 22 since it is now used on-site. Also, the potable letters (SDWA) are being prepared.

Cc: Renee Bancroft, BGWPA

This is Carbonless Paper
Detach Set from Pad before Writing

State of New Jersey
Department of Environmental Protection and Energy
Division of Publicly Funded Site Remediation
CN 413
Trenton, NJ 08625-0413
Tel. # 609-984-2902
Fax. # 609-633-2360

Scott A. Weiner
Commissioner

Anthony J. Farro
Director

APR 0 1 1993

M E M O R A N D U M

TO: Frank Camera, Technical Coordinator
Bureau of Environmental Evaluation and Risk Assessment

THROUGH: Greg Toffoli, Acting Section Chief 4/1/93
Dorothy Lin 4/1/93
Quality Assurance Section
Bureau of Environmental Measurements and Quality Assurance

FROM: Bridget Manson B.M. 4/1/93
Quality Assurance Section
Bureau of Environmental Measurements and Quality Assurance

SUBJECT: Data validation of the January 29, 1993 sampling event of **potable waters** conducted at the **Diamond East** site in Lebanon Township. Sampling and analyses were performed by EnviroTest Laboratories, Inc. according to EPA method 524.2 for Volatile Organics and the NJDEPE regulatory format for deliverables. All samples are aqueous.

Samples Reviewed

Field ID	Laboratory ID	Collection Date
Trip Blank	120199-02	1/29/93
Res. Well #49	120199-01	1/29/93

The Quality Assurance Section, Bureau of Environmental Measurements and Quality Assurance, Division of Publicly Funded Site Remediation has reviewed the above mentioned potable water samples for Volatile Organics. Please refer to the detailed data validation report and the target compound summary for additional information. Specific comments are provided below.

Volatile Organics

1. The result for Freon 113 in sample 120199-01 is quantitatively qualified because 4 of the 5 initial calibration standards were analyzed between 8 and 12 hours following the associated GC/MS BFB tune.

2. The laboratory used the continuing calibration RF instead of the mean RF from the initial calibration to calculate the concentration of Freon 113 in sample 120199-01. In this instance the difference is minimal, however, the correct result is reported in the QAS column.

3. The chain of custody was not signed on 1/27/93 and 1/29/93 by the recipient of the samples. This may be a problem if the data are to be used in litigation.

Please contact this office at 3-0752 if you have any questions concerning this review.

c. William Lowry, BEMQA
Grace Jacob, BEECRA

Target Compound Summary List

Site Name: **Diamond East**

Sample	Analyte	Method Blank Conc.	Lab Report Conc.	QAS Report Conc.	QAS Decision	Footnotes

Note: The results listed are from the Volatile Organics analyses of the samples by method 524.2.

120199-02 (Trip Blank) (ug/L)

None detected.

120199-01 (ug/L)

Freon 113	U	4.7	4.9J	qualify	1,2

FOOTNOTES:

1. The reported result is qualified because the initial calibration standards were run between 8 and 12 hours after the associated GC/MS BFB tune.

2. QAS disagrees with the laboratory reported concentration. The laboratory calculated the result using the RF from the continuing calibration instead of the mean RF from the initial calibration. The corrected concentration is reported in the QAS column.

J = estimated concentration

purged

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: Residential Well #49 (Bruno)
EnviroTest Lab No: 120199-01
Client Name: Vincent Uhl Associates
Project Name: Biggs - Diamond East
Matrix: Water
Sample Wt/Vol: 25 ml
Level: Low

Date Collected: 1/29/93
Date Received: 1/30/93
Date Analyzed: 2/5/93
Report Date: 2/11/93
Column: 75m x 0.53mm DB-624
Lab File ID: >V6759
Dilution Factor: 1

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l
75-71-8	Dichlorodifluoromethane	0.5	U	108-88-3	Toluene	0.5	U
74-87-3	Chloromethane	0.5	U	79-01-6	Tetrachloroethylene	0.5	U
75-01-4	Vinyl chloride	0.5	U	108-90-7	Chlorobenzene	0.5	U
74-83-9	Bromomethane	0.5	U	630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
75-00-3	Chloroethane	0.5	U	100-41-4	Ethylbenzene	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U	108-38-3/106-42-3	m,p-Xylene	0.5	U
75-35-4	1,1-Dichloroethylene	0.5	U	95-47-6	o-Xylene	0.5	U
75-09-2	Methylene chloride	0.5	U	100-42-5	Styrene	0.5	U
156-60-5	trans-1,2-Dichloroethylene	0.5	U	96-18-4	1,2,3-Trichloropropane	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U	98-82-8	Isopropylbenzene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U	108-86-1	Bromobenzene	0.5	U
156-59-4	cis-1,2-Dichloroethylene	0.5	U	103-65-1	n-Propylbenzene	0.5	U
67-66-3	Chloroform	0.5	U	79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U	95-49-8	2-Chlorotoluene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U	106-43-4	4-Chlorotoluene	0.5	U
74-97-5	Bromochloromethane	0.5	U	108-67-8	1,3,5-Trimethylbenzene	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U	98-06-6	tert-Butylbenzene	0.5	U
56-23-5	Carbon tetrachloride	0.5	U	95-63-6	1,2,4-Trimethylbenzene	0.5	U
71-43-2	Benzene	0.5	U	135-98-8	sec-Butylbenzene	0.5	U
79-01-6	Trichloroethylene	0.5	U	541-73-1	1,3-Dichlorobenzene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U	99-87-6	4-Isopropyltoluene	0.5	U
74-95-3	Dibromomethane	0.5	U	104-46-7	1,4-Dichlorobenzene	0.5	U
75-27-4	Bromodichloromethane	0.5	U	95-50-1	1,2-Dichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U	104-51-8	n-Butylbenzene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U	87-68-3	Hexachlorobutadiene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U	120-82-1	1,2,4-Trichlorobenzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U	91-20-3	Napthalene	0.5	U
124-48-1	Dibromochloromethane	0.5	U	87-61-6	1,2,3-Trichlorobenzene	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U	96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
75-25-2	Bromoform	0.5	U	76-13-1	Freon 113	0.5	4.7

FORM I - VOA

EnviroTest
315 Fullerton Avenue
Newburgh, NY 12550

ORGANICS DATA RESULT FORM

TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: Residential Well #49 (Bruno)
EnviroTest Lab No: 120199-01
Client Name: Vincent Uhl Associates
Project Name: Biggs - Diamond East
% Solid:
Matrix: Water
Sample Wt/Vol: 25 ml
Fraction: VOA

Date Collected: 1/29/93
Date Received: 1/30/93
Date Analyzed: 2/5/93
Report Date: 2/11/93
Level: Low
Column: 75m x 0.53mm DB-624
Lab File ID: V6759
Dilution Factor: 1

CAS NO.	COMPOUND	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/l)

No extra peaks detected in VOA fraction
at >10% of internal standards.

FORM I TIC - VOA

EnviroTest
315 Fullerton Avenue
Newburgh, NY 12550
(914) 562-0890

REFERENCE NO. 17

State of New Jersey
Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr.
Commissioner

MEMORANDUM

TO: Paul Kurisko, Bureau Chief
Bureau of Environmental Evaluation and Risk Assessment

THROUGH: Steve Maybury, Acting Chief
Bureau of Environmental Evaluation and Cleanup Responsibility Assessment

FROM: Grace Jacob, Case Manager
BEECRA

SUBJECT: Cleanup Criteria for Freon 113 and Freon 22
Diamond East Laboratories, Lebanon Twp., Hunterdon County
ISRA Case #85120

The above referenced ISRA Case previously used Freon 113 in their operations. Back in October 1992, the NJDEP developed the criteria of 210,000 ppb for 1,1,2 trichloro-1,2,2 triflouroethane (Freon 113) as per the attached memo. Please provide confirmation that the criteria for Freon 113 is still adequate. Since that time, it was brought to the Department's attention that they also stored Freon 22 (chloroflouromethane) at the site, therefore, we are seeking criteria for this compound as well. Please provide BEECRA with current cleanup criteria for Freon 113 and 22 which are protective of human health as there are currently no safe drinking water standards for these compounds. Due to the concern for contamination in the area, the Health Department and/or homeowners may elect to sample potable wells which may have been impacted by the above referenced case. Please inform the Case Manager with regards to when she can expect to receive this information. If you have any further questions regarding this matter please call the Case Manager at 633-1422.

Attachment

c: Frank McLaughlin, BGWPA

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REFERENCE NO. 18

VINCENT UHL ASSOCIATES, INC.

Professional Groundwater Hydrologists and Environmental Specialists

Vincent W. Uhl, CPG, PH
Jaclyn A. Baron
Anthony J. Rana, PG

August 26, 1992

Ms. Grace Jacobs
Case Manager
New Jersey Department of
Environmental Protection and Energy
Industrial Site Evaluation Element
CN-028
Trenton, New Jersey 08625-0028

RE: Progress Report of Activities from June through August 1992; Diamond East Laboratories Corporation, Glen Gardner, New Jersey (ECRA Case No. 85120).

Dear Ms. Jacobs:

The following activities were conducted during June through August 1992 in connection with the ECRA investigations at the Diamond East Laboratories Corporation site in Glen Gardner, New Jersey.

Files/Information Aquisition and Review

- Early in June 1992, historical case files that were requested through Kenneth Smith, NJDEPE Librarian, on April 14, 1992 were received and reviewed.
- On July 14, 1992 historical case files in possession of Rene Bancroft, NJDEPE Geologist, were reviewed.
- The Waste Classification file for the site was requested, received and reviewed in early August 1992.
- On July 14, 1992 a letter addressed to the property owner's counsel (Howard LaKind, esq.) was received from the NJDEPE via facsimilie requesting information concerning the size, contents and previous use of the above ground storage tanks at the site and of the former use of the on-site distillation unit. Mr. George Diamond was informed of these requests and is in the process of compiling this information.

1078 Taylorsville Road, PO Box 93
Washington Crossing, PA 18977

Telephone (215) 321-2210
Fax (215) 321-3312

Soils Issues

- The analytical results for the soil sampling program conducted in late March 1992 (1) at the Compressor Discharge Area, (2) at the Septic Tank invert level, (3) at Soil Pile No. 1, and (4) beneath Soil Piles Nos. 1 and 2, have been evaluated (See Technical Attachment).

- On June 22, 1992, the test boring program in the vicinity of the former RCRA Drum Storage Area upgradient of MW-6 was implemented. The analytical results for the soils samples collected during this program have been received and evaluated (See Technical Attachment).

- On June 22, 1992, NJDEPE conducted a site inspection. Based on this inspection, directives for some additional cleanup and sampling in two onsite areas (the Catch Basin at the Metal Scrap Drum Storage Area and the Discharge Pipe at the RCRA Drum Storage Area) were included in an undated NJDEPE letter received (via facsimile) on July 14, 1992.

Groundwater Issues

- On June 23, 1992, an attempt to install a deep well onsite was halted when rising head conditions were encountered. Discussions ensued with Rene Bancroft, NJDEPE Geologist, regarding both deep and shallow monitoring wells number and locations (See Technical Attachment).

- In accordance with the agreement reached, as incorporated into NJDEPE's July 14, 1992 letter, Domestic Well 49 was sampled on July 17, 1992 in lieu of proceeding with installation of a deep onsite monitoring well. The sampling results have been received and evaluated (See Technical Attachment).

- On August 12, 1992, Vincent Uhl Associates met Gerald Springer and Richard Brown of the NJDEPE Division of Coastal Resources, to view the proposed shallow monitoring well location. The outcome of this meeting was that the well location was classified as a wetland and that a permit would be required for the well installation. The permit application was prepared; and will be submitted to NJDEPE by the property owner's agent (Biggs Engineering).

Status and Activities Planned for September and October 1992

- The analytical results indicate that none of the soil samples collected from the Compressor Discharge Area (post-excavation), the Septic Tank invert level, or from beneath Soil Piles Nos. 1 and 2 exceed the Proposed New Rules Cleanup Standards. Therefore, no further action is required in these areas.

- The analytical results from the test boring program in the vicinity of the RCRA Drum Storage Area indicate that concentrations in the soil samples do not exceed the Proposed New Rules Cleanup Standards. The results of the test boring program do not indicate the presence of a residual source area in the area upgradient of Monitoring Well MW-6 in the vicinity of the former RCRA Drum Storage Area that would have a significant groundwater quality impact. Therefore, no further action is required in this area.

- The analytical results indicate that Soil Pile No. 1 contains widespread PCB concentrations that exceed cleanup standards. This soil pile will be removed from the site and disposed of in an appropriate off-site facility.

- Since the case files do not appear to contain documentation of referenced prior sampling (Vectre Corporation, April 5, 1990, page 49); Soil Pile No. 2 will be resampled for PCBs analysis.

- The catch basin at the Metal Scrap Drum Storage Area will be cleaned out and samples collected, if conditions warrant, in accordance with NJDEPE's directives in the 14 July 1992 letter.

- Once the information has been compiled regarding the previous contents and use of the above ground storage tanks, an inspection will be conducted in accordance with NJDEPE's directive in the July 14, 1992 letter.

- Samples from below the discharge point of the discharge pipe at the RCRA Drum Storage Area will be collected in accordance with NJDEPE's directives in the July 14, 1992 letter.

- Based on the analytical results for the domestic well sample, the installation of a deep well onsite does not appear to be warranted.

- The shallow onsite monitoring well will be installed following approval of the wetlands permit application. Please be advised that the timing of submittal of the results of sampling this well will depend on the waiting period for approval of this application.

The complete laboratory analytical data reports for the following sampling activities are enclosed with this progress report:

1) March 30 & 31, 1992 soil samples collected from the Compressor Discharge Area, Septic Tank Invert Level, Soil Pile #1 and from beneath Soil Pile No. 1, and, Soil Pile No. 2.

2) June 22, 1992 soil samples collected during the test boring program upgradient of Monitoring Well MW-6 in the vicinity of the Former RCRA Drum Storage Area.

3) July 17, 1992 groundwater sample from offsite Domestic Well 49.

We look forward to NJDEPE's response concerning the several items above which have been completed. Additionally, given the need for permit approval before well installation and the time which will be needed by the property owner to compile historical storage tank information that will serve as the basis for sampling decisions, we respectfully request an extension to December 15, 1992 for submittal of the remaining data directed by the July 14, 1992 NJDEPE letter.

Please call with any questions,

Sincerely,

Jaclyn A. Baron
Principal Engineer

Anthony J. Rana
Senior Hydrogeologist/
Project Manager

cc: Jesse Symonds, Biggs Engineering Associates (w/o enclosures)

TECHNICAL ATTACHMENT
PROGRESS REPORT OF ACTIVITIES FROM JUNE THROUGH AUGUST 1992
DIAMOND EAST LABORATORIES CORPORATION, GLEN GARDNER, NEW JERSEY
ECRA CASE NO. 85120

Soil Issues

The analytical results for the soil samples collected on March 30 and 31 1992 were reviewed and evaluated. As requested by the Case Manager, this progress report provides summary tables of the results and a comparison to cleanup standards. NJDEPE's recent undated letter received on July 14, 1992 indicates that the proposed cleanup standard rules that appeared in the February 3, 1992 New Jersey Register shall be used as guidance to determine what concentration of contaminants need to be present at a site to consider the site contaminated; which areas of environmental concern need additional investigation; and the concentration of a contaminant allowed to remain for a site to be considered "clean". Therefore, the analytical results were compared to these Proposed New Rules standards.

Compressor Discharge Area

The analytical results for the three post-excavation soil samples collected from the Compressor Discharge Area are summarized on Table 1. Two of the three samples, from the central and southern parts of the excavation, did not exhibit detectable concentrations of petroleum hydrocarbons. A total petroleum hydrocarbon (TPHC) concentration of 738 mg/kg was found in Sample A-1, from the northern part of the excavation, and this sample was therefore additionally tested for polynuclear aromatic hydrocarbons (PAHs). One targeted PAH, phenanthrene, was detected at 36 ug/kg (0.036 mg/kg); this result was qualified by the laboratory as being both an estimated concentration below the method detection limit (J), and also because this compound was found in a laboratory blank associated with the testing (B). Unknowns at a total concentration of 9,080 ug/kg (9.08 mg/kg) were also present in this sample.

The total organic contaminant concentration in sample A-1 of 747 mg/kg is well below the Proposed New Rules cleanup standard for both surface and subsurface soils of 10,000 mg/kg. An individual cleanup standard has not been proposed for phenanthrene; however the actual presence of this compound is suspect due to laboratory contamination, and, in any case, the trace concentration detected is considerably lower than the proposed standards for similar PAHs.

Septic Tank Area

The analytical results for the three soil samples collected at the invert level of the septic tank are summarized on Table 2. These samples did not exhibit detectable concentrations of petroleum hydrocarbons. No targeted or tentatively identified volatile organic compounds (VOCs) were detected. Additionally two of the three samples (B-1 and B-2) were also free of both targeted and tentatively identified base/neutral extractable organic compounds (BNs).

Six PAHs were detected in the B-3 sample, all at very low concentrations below the method detection limit and several orders of magnitude below the Proposed New Rules cleanup standards for subsurface soils. Fluoranthene, pyrene, chrysene, benzo(a)anthracene, and benzo(b)fluoranthene were detected at concentrations ranging from 7.1 to 16J ug/kg (0.0071 to 0.016 mg/kg); the individual cleanup standards for each of these compounds is 500 mg/kg. The sixth PAH, benzo(a)pyrene, was detected at 7.1J ug/kg (0.0071 mg/kg); the cleanup standard for this compound is 100 mg/kg.

Several BNs were also tentatively identified in Sample B-3, comprised mainly of various acids (hexadecanoic, octadecanoic, et. al.). The total TIC concentration was 14,520 ug/kg (14.52 mg/kg). The total organic contaminant concentration of 14.586 mg/kg is well below the Proposed New Rules cleanup standard for subsurface soil of 10,000 mg/kg.

The samples at the septic tank invert exhibited chromium at 13.7 to 65.3 mg/kg, copper at 28.2 to 35.7 mg/kg, zinc at 30.2 to 61.2 mg/kg, and cadmium was not detected. The Proposed New Rules indicate that for inorganic contaminants, the Department will determine the subsurface soil cleanup standard on a site-specific basis. It should be noted, in the absence of specific new criteria, that none of these concentrations exceed the site-specific cleanup levels cited in NJDEP's November 28, 1990 letter (75 ppm chromium, 170 ppm copper, 350 ppm zinc, and 3 ppm cadmium).

Soil Piles

The analytical results for the four samples collected from Soil Pile No. 1 for PCBs analysis are summarized on Table 3. PCB-1248 was detected in all of these samples at concentrations ranging from 0.750 to 130 mg/kg. Based on these results, steps are being taken to dispose of Soil Pile No. 1 at an appropriate offsite facility.

The analytical results for the samples collected from beneath Soil Piles Nos. 1 and 2 are summarized on Table 4. The sample from beneath Pile 1 exhibited traces of benzene, toluene and total xylenes. No other organic contaminants (VOC TICs, targeted base/neutral and acid extractable compounds [BNAs] or TIC BNAs) were detected in this sample. The very low concentrations detected are orders of magnitude below the Proposed New Rules total VOC and individual cleanup standards for each compound in both residential surface and subsurface soils. A comparison of the detected concentrations to the standards follows:

	Detected Conc. (mg/kg)	Residential Surface (mg/kg)	Subsurface (mg/kg)
Benzene	0.0074J	3	1
Toluene	0.015J	1,000	500
Xylenes	0.048	360	10
Total VOCs	0.0704	1,000	1,000

The sample from beneath Pile 2 exhibited eight PAH compounds at very low concentrations, that were qualified by the laboratory as estimated (J) as they were below the method detection limit. Unknown alkanes at and unknown BNAs at 460 ug/kg (0.460 mg/kg) were also present. The sample did not exhibit any targeted VOCs or VOC TICs. The very low concentrations detected are one or more orders of magnitude below the Proposed New Rules total organic contaminant and individual cleanup standards for each compound in both residential surface and subsurface soils. A comparison of the detected concentrations to the standards follows:

	Detected Conc. (mg/kg)	Residential Surface (mg/kg)	Subsurface (mg/kg)
Benzo(a)anthracene	0.012J	0.66	500
Benzo(b)fluoranthene	0.028J	0.66	500
Benzo(k)fluoranthene	0.031J	0.66	500
Benzo(a)pyrene	0.010J	0.66	100
Chrysene	0.020J	0.66	500
Fluoranthene	0.029J	2,300	500
Phenanthrene	0.027J	NE	NE
Pyrene	0.030J	1,700	500
Total Organic Contaminants (inc. TICs)	3.327J	10,000	10,000

NE Not Established

The metals concentrations in the soils beneath both soil piles are not elevated and do not exceed any of the Proposed New Rules residential surface soil standards. Arsenic at 1.6 and 1.8 mg/kg (20 mg/kg standard), beryllium at 0.87 and 1.5 mg/kg (2 mg/kg standard), chromium at 44.2 and 45.5 mg/kg (standard NE), lead at ND to 7.7 mg/kg (100 mg/kg standard), nickel at 19 and 23 mg/kg (250 mg/kg standard) and zinc at 30.8 to 64.4 mg/kg (1,500 mg/kg standard) were detected in the samples.

In summary, none of the soil samples collected from the Compressor Discharge Area excavation, at the septic tank invert level, and from beneath the soil piles exhibited concentrations of any parameter that exceed the Proposed New Rules cleanup standards. no further action is required in these areas.

Soil Pile No. 1 contains widespread PCB concentrations and will be removed from the site and disposed of at an appropiate offsite facility. Since the case files do not appear to contain documentation of referenced prior sampling (Vectre Corporation, April 5, 1990), Soil Pile 2 will be resampled for PCB analysis.

Test Boring Program in the Vicinity of Former RCRA Drum Storage Area

On June 22, 1992 a test boring program was conducted in the area upgradient of Monitoring Well MW-6 in the vicinity of the former RCRA drum storage area. The purpose of this program was to investigate the potential presence of a source in this area of the groundwater constituents that have been detected in MW-6. The test boring program was proposed in Vincent Uhl Associates March 18, 1992 letter as a better mechanism for attempting to locate a source area than the more limited sampling NJDEPE originally suggested (November 28, 1990 letter), and the modified program was accepted by William Hadsell, the former Case Manager.

Ten borings were drilled to the top of the water table (approximately 6 feet below ground surface (bgs.)) and continuously sampled. The samples were screened both directly and in the headspace after equilibration with an Hnu photoionization detector. The two samples showing highest headspace PID readings (15 to 20 ppm) were submitted to EnviroTech Research, Inc., Edison, New Jersey for VOC+15 laboratory analysis; these samples were both from the same borehole (TB-7) and were collected from within the interval 2 to 3 feet bgs. The samples exhibited trace concentrations of tetrachloroethylene, trichloroethylene, and toluene that are orders of magnitude below the Proposed New Rule cleanup standards. A trace of methylene chloride found in one sample, also well below the standard, was qualified as suspect due to laboratory blank contamination. A comparison of the detected concentrations to the standards follows:

	Detected Conc. TB-7 2.0-2.5 ft bgs (mg/kg)	Detected Conc. TB-7 2.5-3.0 ft bgs (mg/kg)	Subsurface Soil Standard (mg/kg)
Tetrachloroethylene	0.018	0.015	1
Toluene	0.260	0.250	500
Trichloroethylene	0.0072	0.0036J	1
Methylene Chloride	0.0063B	ND	10

ND Not Detected

In summary, the results of the test boring program do not indicate the presence of a residual source area in the area upgradient of Monitoring Well MW-6 in the vicinity of the former RCRA Drum Storage Area that would have significant impact on groundwater quality.

Groundwater Issues

During July 1992, the process of establishing the number and locations of new monitoring wells to be installed at the Diamond East Laboratories site continued. This process involved several decisions which were made in consultation with the NJDEPE Case Manager and Geologist. A recap of the progression of events follows.

During drilling of the planned onsite deep monitoring well on June 23, 1992 rising head conditions were encountered. The drilling was therefore halted and the borehole abandoned by grouting. It was proposed, with NJDEPE's concurrence, to sample two specified domestic wells (41 and 49) in lieu of installing the deep monitoring well. NJDEPE's undated letter received on July 14, 1992 incorporated this directive (Item A.1). Subsequent field followup to the preliminary well inventory indicated that only one of these domestic wells was located adjacent to and downgradient of the site (Well 49). The Case Manager was informed, and on July 17, 1992 Well 49 was sampled. Well 49 is located at 688 Woodglen Road (Lot 49, Block 1) and is completed in bedrock to a depth of 120 feet. The sample collected from this well was submitted to EnviroTest Laboratories, Inc., Newburgh, New York (NJ Laboratory Certification No. 73507) for VOC+15 analysis by USEPA Drinking Water Method 524.2 with Freon 113 specified as an additional targeted parameter.

Freon 113 was the only targeted VOC detected in Well 49 at 5 ug/L. One other freon compound (1,2-dichlor-1,1,2-trifluoroethane) was tentatively identified at an estimated trace concentration of 0.70J ug/L. A specific cleanup standard has not been proposed for Freon 113; however a preliminary

evaluation indicates that a numeric standard derived in accordance with 7:26D-6.3 would be substantially higher than 5 ug/L.

With respect to shallow onsite monitoring wells, NJDEPE's undated letter received on July 14, 1992 contains the directive that the two shallow wells previously agreed upon be installed and sampled, and that, if necessary, the well locations may be changed to the most downgradient property line (Item A.3). It was determined that this change in well locations was indeed necessary since the proposed locations were in an area too soft to support a rig and therefore inaccessible. In subsequent discussions on July 20 and 22, 1992, the environmental consultant and the NJDEPE Geologist concurred that only one monitoring well at the property line was required and that the second well would be redundant. The proposed location of this shallow well has been established, and a permit application for drilling this well (Statewide General Permit) has been prepared and will be submitted to NJDEPE by the property owner's agent.

TABLE 1. SUMMARY OF ANALYTICAL RESULTS FOR COMPRESSOR DISCHARGE AREA: POST-EXCAVATION SOIL SAMPLES.
DIAMOND EAST LABORATORIES CORPORATION, GLEN GARDNER, NEW JERSEY.

SAMPLE DESIGNATION:		A-1 NORTH	A-2 CENTRAL	A-3 SOUTH		FB-A-1 NORTH
SAMPLE DATE:		03.30.92	03.30.92	03.30.92		03.30.92
	Units				Units	
TOTAL PETROLEUM HYDROCARBONS	mg/kg, dry wgt	738	ND (25)	ND (25) AVLB	mg/L	ND (1.0)
SOLIDS	percent	80.9	83.7	84.0		
PRIORITY POLLUTANT POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)	ug/kg, dry wgt		NT	NT		
Phenanthrene		36 JB				
TENTATIVELY IDENTIFIED COMPOUNDS			NT	NT		
Unknowns (total)	ug/kg, dry wgt	9,080 J				

FB Field Rinsate Sample.

ND(x) Not Detected at Quantitation Limit (x).
NT Not tested.
J Estimated value. Mass spectral data indicate the presence of the compound that meets the identification criteria but the quantitated value is less than the method quantitation limit. Also used for tentatively identified compounds.
B The compound was also detected in the laboratory blank sample.

mg/kg, dry wgt. Milligrams per kilogram, dry weight.
ug/kg, dry wgt. Micrograms per kilogram, dry weight.
mg/L Milligrams per liter.

The samples were analyzed by Envirotech Reasearch, Inc., Edison, New Jersey.
The complete analytical data package is provided in Appendix ; only those organic compounds detected are shown on the table. Figure shows the sample locations.

PRELIMINARY
(FOR [illegible] ONLY)

Vincent Uhl Associates, Inc.

TABLE 2. SUMMARY OF ANALYTICAL RESULTS FOR SEPTIC TANK AREA: SOIL SAMPLES AT INVERT LEVEL
DIAMOND EAST LABORATORIES CORPORATION, GLEN GARDNER, NEW JERSEY.

SAMPLE DESIGNATION:		B-1 SOUTHWEST	B-2 WEST	B-3 SOUTHEAST		FB-B-1 SOUTHWEST
SAMPLE DATE:		03.30.92	03.30.92	03.30.92		03.30.92
	Units				Units	
TOTAL PETROLEUM HYDROCARBONS	mg/kg dry wgt	ND (25)	ND (25)	ND (25)		
SOLIDS	percent	80.6	88.4	82.9		
CADMIUM	mg/kg dry wgt	ND (0.5)	ND (0.5)	ND (0.5)	ug/L	ND (5)
CHROMIUM	mg/kg dry wgt	65.3	13.7	50.0	ug/L	ND (10)
COPPER	mg/kg dry wgt	35.7	28.2	29.6	ug/L	ND (25)
ZINC	mg/kg dry wgt	61.2	30.2	40.6	ug/L	ND (20)
PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS (VOCs)	ug/kg dry wgt	ND	ND	ND	ug/L	ND
TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS (VOCs)	ug/kg dry wgt	ND	ND	ND	ug/L	ND
PRIORITY POLLUTANT BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS (B/Ns)	ug/kg dry wgt	ND	ND		ug/L	ND
Fluoranthene				13J		
Pyrene				11J		
Chrysene				12J		
Benzo (a) Anthracene				7.1J		
Benzo (b) Fluoranthene				16J		
Benzo (a) Pyrene				7.1J		
TENTATIVELY IDENTIFIED BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS (B/Ns)	ug/kg dry wgt	ND	ND		ug/L	ND
Hexadecanoic Acid				2,400J		
Octadecanoic Acid				4,800J		
Eicosanoic Acid				1,800J		
Docosanoic Acid				480J		
Unknown Alkane				200J		
Unknown [illegible]eriod				1,100J		
2-Sitosterol				1,500J		
Unknowns (total)				2,240J		

PRELIMINARY
(FOR DISCUSSION PURPOSES ONLY)

TABLE 2. SUMMARY OF ANALYTICAL RESULTS FOR SEPTIC TANK AREA: SOIL SAMPLES AT INVERT LEVEL.
DIAMOND EAST LABORATORIES CORPORATION, GLEN GARDNER, NEW JERSEY.

NOTES:

FB Field Rinsate Sample.

ND(x) Not Detected at Quantitation Limit.
ND None Detected.
J Estimated value. Mass spectral data indicate the presence of the compound that meets the identification criteria but the quantitated value is less than the method quantitation limit. Also used for tentatively identified compounds.

mg/kg, dry wgt. Milligrams per kilogram, dry weight.
ug/kg, dry wgt. Micrograms per kilogram, dry weight.
ug/L Micrograms per liter.

The samples were analyzed by Envirotech Research, Inc., Edison, New Jersey.
The complete analytical data package is provided in Appendix ; only those organic compounds detected are shown on the table. Figure shows the sample locations.

PRELIMINARY
(FOR DISCUSSION PURPOSES ONLY)

TABLE 3. SUMMARY OF ANALYTICAL RESULTS FOR PCBs IN SOIL PILE NO. 1.
DIAMOND EAST LABORATORIES CORPORATION, GLEN GARDNER, NEW JERSEY.

SAMPLE DESIGNATION:		C-1	C-2	C-3	C-4	FB-C-1
		1st Quarter EAST	2nd Quarter	3rd Quarter	4th Quarter WEST	
SAMPLE DATE:		03.31.92	03.31.92	03.31.92	03.31.92	03.31.92
	Units					Units
PRIORITY POLLUTANT POLYCHLORINATED BIPHENYLS (PCBs)	mg/kg, dry wgt					ug/L ND
PCB - 1248		130	120	2.5	0.750	
SOLIDS	percent	79.8	77.3	81.4	82.3	

FB Field Rinsate Sample.

ND None Detected.

mg/kg, dry wgt. Milligrams per kilogram, dry weight.
ug/L Micrograms per liter.

The samples were analyzed by Envirotech Research, Inc., Edison, New Jersey. The complete analytical data package is provided in Appendix ; only those compounds detected are shown on the table. Figure shows the sample locations.

Vincent Uhl Associates, Inc.

PRELIMINARY
(FOR DISCUSSION PURPOSES ONLY)

TABLE 4. SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES COLLECTED BENEATH SOIL PILES
DIAMOND EAST LABORATORIES CORPORATION, GLEN GARDNER, NEW JERSEY

SAMPLE DESIGNATION:		SOIL PILE 1	SOIL PILE 2	FB
SAMPLE DATE:		0-0.5 FT. 03.31.92	0-0.5 FT. 03.31.92	
	Units			Units
PRIORITY POLLUTANT METALS	mg/kg, dry wgt			ug/L
Antimony		ND (6.0)	ND (6.0)	ND (60)
Arsenic		1.8	1.6	ND (10)
Beryllium		0.87	1.5	ND (5)
Cadmium		ND (0.5)	ND (0.5)	ND (5)
Chromium		44.2	45.5	ND (10)
Copper		18	24	ND (25)
Lead		ND (5.0)	7.7	ND (3)
Mercury		ND (0.1)	ND (0.1)	ND (0.2)
Nickel		19	23	ND (40)
Selenium		ND (0.5)	ND (0.5)	ND (5)
Silver		ND (1.0)	ND (1.0)	ND (10)
Thallium		ND (0.5)	ND (0.5)	ND (10)
Zinc		30.8	64.4	ND (20)
CYANIDE	mg/kg, dry wgt	ND (1.0)	ND (1.0)	ND (5.0)
PHENOLS	mg/kg, dry wgt	ND (5.0)	ND (5.0)	ND (50)
SOLIDS	percent	84.1	79.9	

Vincent Uhl Associates, Inc.

PRELIMINARY
(FOR DISCUSSION PURPOSES ONLY)

AIBLE 4. SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES COLLECTED BENEATH SOIL PILES
IAMOND EAST LABORATORIES CORPORATION, GLEN GARDNER, NEW JERSEY

AMPLE DESIGNATION:		SOIL PILE 1	SOIL PILE 2		FB
AMPLE DATE:		1.5-2.0 FT. 03.31.92	1.5-2.0 FT. 03.31.92		03.31.92
	Units			Units	
'RIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS (VOCs)	ug/kg, dry wgt		ND	ug/L	ND
Ethyl Benzene		7.4J			
Toluene		15J			
Xylenes (total)		48			
TENTATIVELY IDENTIFIED VOLATILE ORGANIC COMPOUNDS (VOCs)	ug/kg, dry wgt	ND	ND	ug/L	ND

FB Field Rinsate Sample

ND(x) Not Detected at Quantitation Limit (x).
ND None Detected
J Estimated value. Mass spectral data indicate the presence of the compound that meets the identification criteria but the quantitated value is less than the method quantitation limit. Also used for tentatively identified compounds.

mg/kg, dry wgt. Milligrams per kilogram, dry weight.
ug/kg, dry wgt. Micrograms per kilogram, dry weight.
ug/L Micrograms per liter.

The samples were analyzed by Envirotech Research, Inc., Edison, New Jersey.
The complete analytical data package is provided in Appendix ; only those organic compounds detected are shown on the table. Figure shows the sample locations.

PRELIMINARY
(FOR DISCUSSION PURPOSES ONLY)

Vincent Uhl Associates, Inc.

TABLE 4. SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES COLLECTED BENEATH SOIL PILES
DIAMOND EAST LABORATORIES CORPORATION, GLEN GARDNER, NEW JERSEY

SAMPLE DESIGNATION:		SOIL PILE 1	SOIL PILE 2		FB
		0-0.5 FT.	0-0.5 FT.		
SAMPLE DATE:		03.31.92	03.31.92		03.31.92
	Units			Units	
PRIORITY POLLUTANT ACID AND BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS (BNAs)	ug/kg dry wgt	ND		ug/L	ND
Benzo (a) Anthracene			12J		
Benzo (b) Fluoranthene			28J		
Benzo (k) Fluoranthene			31J		
Benzo (a) Pyrene			10J		
Chrysene			20J		
Fluoranthene			29J		
Phenanthrene			27J		
Pyrene			30J		
TENTATIVELY IDENTIFIED ACID AND BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS (BNAs)	ug/kg dry wgt	ND		ug/L	ND
Unknown Alkanes (total)			2,680J		
Unknowns (total)			460J		
PRIORITY POLLUTANT PESTICIDES AND PCBs	ug/kg dry wgt	ND	ND	ug/L	ND

Vincent Uhl Associates, Inc.

PRELIMINARY
(FOR DISCUSSION PURPOSES ONLY)

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (908) 549-3900
Fax: (908) 549-3679

MAY 1 8 1992

purged

April 21, 1992

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977

Attention: Mr. Jackie Baron

Re: Job No. B351 - Diamond East

Dear Ms. Baron:

Enclosed are the results you requested for the following samples taken 3/31/92:

Lab No.	Client ID	Analysis Requested
65258	C-1	PCBs
65259	C-2	PCBs
65260	C-3	PCBs
65261	C-4	PCBs
65262	Soil Pile 2	Priority Pollutant +40
65263	Soil Pile 1	Priority Pollutant +40
65264	Field Blank	Priority Pollutant +40
65264A	FB C-1	PCBs

An invoice for our services is also enclosed. Please call me at 549-3900 if you have any questions.

Very truly yours,

Michael J. Urban
Laboratory Manager

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1802

PCB Analysis

Parameter	Lab No. 65258 Client ID: C-1 79.8% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
PCB-1016	ND	30000
PCB-1221	ND	30000
PCB-1232	ND	30000
PCB-1242	ND	30000
PCB-1248	130000	30000
PCB-1254	ND	7500
PCB-1260	ND	7500

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1802

PCB Analysis

Parameter	Lab No. 65259 Client ID: C-2 77.3% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
PCB-1016	ND	24000
PCB-1221	ND	24000
PCB-1232	ND	24000
PCB-1242	ND	24000
PCB-1248	120000	24000
PCB-1254	ND	6000
PCB-1260	ND	6000

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1802

PCB Analysis

Parameter	Lab No. 65260 Client ID: C-3 81.4% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
PCB-1016	ND	500
PCB-1221	ND	500
PCB-1232	ND	500
PCB-1242	ND	500
PCB-1248	2500	500
PCB-1254	ND	160
PCB-1260	ND	160

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1802

PCB Analysis

Parameter	Lab No. 65261 Client ID: C-4 82.3% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
PCB-1016	ND	160
PCB-1221	ND	160
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	750	160
PCB-1254	ND	160
PCB-1260	ND	160

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 2044C

VOLATILE ORGANICS

Parameter	Lab No. 65262 Client ID: Soil Pile 2 79.9% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
Benzene	ND	25
Bromodichloromethane	ND	25
Bromoform	ND	25
Bromomethane	ND	50
Carbon tetrachloride	ND	25
Chlorobenzene	ND	25
Chloroethane	ND	50
2-Chloroethylvinyl ether	ND	50
Chloroform	ND	25
Chloromethane	ND	50
Dibromochloromethane	ND	25
1,1-Dichloroethane	ND	25
1,2-Dichloroethane	ND	25
1,1-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
trans-1,3-Dichloropropene	ND	25
Ethyl benzene	ND	25
Methylene chloride	ND	25
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	ND	25
1,1,1-Trichloroethane	ND	25
1,1,2-Trichloroethane	ND	25
Trichloroethene	ND	25
Trichlorofluoromethane	ND	25
Vinyl chloride	ND	50
Xylenes (Total)	ND	25

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: PILE 2

Sample No.: 65262 Job No.: 8351 Fraction: VOC

Concentration Units: PPM (PPB)

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO VOLATILE ORGANICS COMPOUNDS FOUND		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1796A

ACID EXTRACTABLES

Parameter	Lab No. 65262 Client ID: Soil Pile 2 79.9% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
2-Chlorophenol	ND	330
2-Nitrophenol	ND	330
Phenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dichlorophenol	ND	330
2,4,6-Trichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4-Dinitrophenol	ND	1700
2-Methyl-4,6-dinitrophenol	ND	1700
Pentachlorophenol	ND	1700
4-Nitrophenol	ND	1700

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1796A

BASE/NEUTRAL EXTRACTABLES

Parameter	Lab No. 65262 Client ID: Soil Pile 2 79.9% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Hexachloroethane	ND	330
Bis(2-chloroethyl) ether	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl) ether	ND	330
N-Nitrosodi-n-propylamine	ND	330
Nitrobenzene	ND	330
Hexachlorobutadiene	ND	330
1,2,4-Trichlorobenzene	ND	330
Isophorone	ND	330
Naphthalene	ND	330
Bis(2-chloroethoxy) methane	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Dimethyl phthalate	ND	330
2,6-Dinitrotoluene	ND	330
Fluorene	ND	330
4-Chlorophenyl phenyl ether	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
N-Nitrosodiphenylamine	ND	330
Hexachlorobenzene	ND	330

ENVIROTECH RESEARCH, INC.

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1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1796A

BASE/NEUTRAL EXTRACTABLES (con't)

Parameter	Lab No. 65262 Client ID: Soil Pile 2 79.9% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
4-Bromophenyl phenyl ether	ND	330
Phenanthrene	27J	330
Anthracene	ND	330
Dibutyl phthalate	ND	330
Fluoranthene	29J	330
Pyrene	30J	330
Benzidine	ND	670
Butyl benzyl phthalate	ND	330
Bis(2-ethylhexyl) phthalate	ND	330
Chrysene	20J	330
Benzo(a)anthracene	12J	330
3,3'-Dichlorobenzidine	ND	670
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	28J	330
Benzo(k)fluoranthene	31J	330
Benzo(a)pyrene	10J	330
Indeno(1,2,3-c,d)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330
N-Nitrosodimethylamine	ND	330

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: Soil Pile 2 (0-0.5')

Sample No.: 65262 Job No.: B351 Fraction: BNA

Concentration Units: PPM (PPB)

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	Unknown Alkane	36.10	380
2.	" "	37.94	920
3.	" "	39.99	960
4.	Unknown	40.27	250
5.	Unknown Alkane	42.68	420
6.	Unknown	43.81	210
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1805

ORGANOCHLORINE PESTICIDES and PCBs

Parameter	Lab No. 65262 Client ID: Soil Pile 2 79.9% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
Aldrin	ND	16
alpha-BHC	ND	16
beta-BHC	ND	16
delta-BHC	ND	16
gamma-BHC (Lindane)	ND	160
Chlordane	ND	32
4,4'-DDD	ND	32
4,4'-DDE	ND	32
4,4'-DDT	ND	32
Dieldrin	ND	32
Endosulfan I	ND	16
Endosulfan II	ND	32
Endosulfan sulfate	ND	32
Endrin	ND	32
Endrin aldehyde	ND	32
Heptachlor	ND	16
Heptachlor epoxide	ND	16
Toxaphene	ND	320
PCB-1016	ND	160
PCB-1221	ND	166
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	ND	160
PCB-1254	ND	160
PCB-1260	ND	160

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543

METALS and WET CHEM

Parameter	Lab No. 65262 Client ID: Soil Pile 2 79.9% Solid Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code
Antimony	ND	6.0	P
Arsenic	1.6	0.5	F
Beryllium	1.5	0.5	P
Cadmium	ND	0.5	A
Chromium	45.5	1.0	P
Copper	24	2.5	P
Lead	7.7	5.0	P
Mercury	ND	0.1	CV
Nickel	23	4.0	P
Selenium	ND	0.5	F
Silver	ND	1.0	P
Thallium	ND	0.5	F
Zinc	64.4	2.0	P
Cyanide	ND	1.0	
Phenols	ND	5.0	

Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 2044C

VOLATILE ORGANICS

Parameter	Lab No. 65263 Client ID: Soil Pile 1 84.1% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
Benzene	ND	25
Bromodichloromethane	ND	25
Bromoform	ND	25
Bromomethane	ND	50
Carbon tetrachloride	ND	25
Chlorobenzene	ND	25
Chloroethane	ND	50
2-Chloroethylvinyl ether	ND	50
Chloroform	ND	25
Chloromethane	ND	50
Dibromochloromethane	ND	25
1,1-Dichloroethane	ND	25
1,2-Dichloroethane	ND	25
1,1-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
trans-1,3-Dichloropropene	ND	25
Ethyl benzene	7.4J	25
Methylene chloride	ND	25
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	15J	25
1,1,1-Trichloroethane	ND	25
1,1,2-Trichloroethane	ND	25
Trichloroethene	ND	25
Trichlorofluoromethane	ND	25
Vinyl chloride	ND	50
Xylenes (Total)	48	25

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: PILE 1

Sample No.: 65263 Job No.: B351 Fraction: VOC

Concentration Units: PPM PPB

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO VOLATILE ORGANICS COMPOUNDS FOUND		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1796A

ACID EXTRACTABLES

Parameter	Lab No. 65263 Client ID: Soil Pile 1 84.1% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
2-Chlorophenol	ND	330
2-Nitrophenol	ND	330
Phenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dichlorophenol	ND	330
2,4,6-Trichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4-Dinitrophenol	ND	1700
2-Methyl-4,6-dinitrophenol	ND	1700
Pentachlorophenol	ND	1700
4-Nitrophenol	ND	1700

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1796A

BASE/NEUTRAL EXTRACTABLES

Parameter	Lab No. 65263 Client ID: Soil Pile 1 84.1% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Hexachloroethane	ND	330
Bis(2-chloroethyl) ether	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl) ether	ND	330
N-Nitrosodi-n-propylamine	ND	330
Nitrobenzene	ND	330
Hexachlorobutadiene	ND	330
1,2,4-Trichlorobenzene	ND	330
Isophorone	ND	330
Naphthalene	ND	330
Bis(2-chloroethoxy) methane	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Dimethyl phthalate	ND	330
2,6-Dinitrotoluene	ND	330
Fluorene	ND	330
4-Chlorophenyl phenyl ether	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
N-Nitrosodiphenylamine	ND	330
Hexachlorobenzene	ND	330

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1796A

BASE/NEUTRAL EXTRACTABLES (con't)

Parameter	Lab No. 65263 Client ID: Soil Pile 1 84.1% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
4-Bromophenyl phenyl ether	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Dibutyl phthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	670
Butyl benzyl phthalate	ND	330
Bis(2-ethylhexyl) phthalate	ND	330
Chrysene	ND	330
Benzo(a)anthracene	ND	330
3,3'-Dichlorobenzidine	ND	670
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-c,d)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330
N-Nitrosodimethylamine	ND	330

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: Soil Pile 1 (0-0.5')

Sample No.: 65263 Job No.: B351 Fraction: BN/A

Concentration Units: PPM PPB

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO SEMI-VOLATILE ORGANICS FOUND		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1805

ORGANOCHLORINE PESTICIDES and PCBs

Parameter	Lab No. 65263 Client ID: Soil Pile 1 84.1% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
Aldrin	ND	16
alpha-BHC	ND	16
beta-BHC	ND	16
delta-BHC	ND	16
gamma-BHC (Lindane)	ND	160
Chlordane	ND	32
4,4'-DDD	ND	32
4,4'-DDE	ND	32
4,4'-DDT	ND	32
Dieldrin	ND	32
Endosulfan I	ND	16
Endosulfan II	ND	32
Endosulfan sulfate	ND	32
Endrin	ND	32
Endrin aldehyde	ND	32
Heptachlor	ND	16
Heptachlor epoxide	ND	16
Toxaphene	ND	320
PCB-1016	ND	160
PCB-1221	ND	166
PCB-1232	ND	160
PCB-1242	ND	160
PCB-1248	ND	160
PCB-1254	ND	160
PCB-1260	ND	160

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543

METALS and WET CHEM

Parameter	Lab No. 65263 Client ID: Soil Pile 1 84.1% Solid Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code
Antimony	ND	6.0	P
Arsenic	1.8	0.5	F
Beryllium	0.87	0.5	P
Cadmium	ND	0.5	A
Chromium	44.2	1.0	P
Copper	18	2.5	P
Lead	ND	5.0	P
Mercury	ND	0.1	CV
Nickel	19	4.0	P
Selenium	ND	0.5	F
Silver	ND	1.0	P
Thallium	ND	0.5	F
Zinc	30.8	2.0	P
Cyanide	ND	1.0	
Phenols	ND	5.0	

Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 2513

VOLATILE ORGANICS

Parameter	Lab No. 65264 Client ID: Field Blank Units: ug/l	Detection Limit Units: ug/l
Benzene	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Ethyl benzene	ND	5.0
Methylene chloride	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	10
Xylenes (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: FB

Sample No.: 65264 Job No.: B351 Fraction: VOC

Concentration Units: PPM PPB

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO VOLATILE ORGANICS COMPOUNDS FOUND fle		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1795A

ACID EXTRACTABLES

Parameter	Lab No. 65264 Client ID: Field Blank Units: ug/l	Detection Limit Units: ug/l
2-Chlorophenol	ND	10
2-Nitrophenol	ND	10
Phenol	ND	10
2,4-Dimethylphenol	ND	10
2,4-Dichlorophenol	ND	10
2,4,6-Trichlorophenol	ND	10
4-Chloro-3-methylphenol	ND	10
2,4-Dinitrophenol	ND	50
2-Methyl-4,6-dinitrophenol	ND	50
Pentachlorophenol	ND	50
4-Nitrophenol	ND	50

ENVIROTECH RESEARCH, INC.

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1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1795A

BASE/NEUTRAL EXTRACTABLES

Parameter	Lab No. 65264 Client ID: Field Blank Units: ug/l	Detection Limit Units: ug/l
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Hexachloroethane	ND	10
Bis(2-chloroethyl) ether	ND	10
1,2-Dichlorobenzene	ND	10
Bis(2-chloroisopropyl) ether	ND	10
N-Nitrosodi-n-propylamine	ND	10
Nitrobenzene	ND	10
Hexachlorobutadiene	ND	10
1,2,4-Trichlorobenzene	ND	10
Isophorone	ND	10
Naphthalene	ND	10
Bis(2-chloroethoxy) methane	ND	10
Hexachlorocyclopentadiene	ND	10
2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10
Acenaphthene	ND	10
Dimethyl phthalate	ND	10
2,6-Dinitrotoluene	ND	10
Fluorene	ND	10
4-Chlorophenyl phenyl ether	ND	10
2,4-Dinitrotoluene	ND	10
Diethylphthalate	ND	10
N-Nitrosodiphenylamine	ND	10
Hexachlorobenzene	ND	10

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1795A

BASE/NEUTRAL EXTRACTABLES (con't)

Parameter	Lab No. 65264 Client ID: Field Blank Units: ug/l	Detection Limit Units: ug/l
4-Bromophenyl phenyl ether	ND	10
Phenanthrene	ND	10
Anthracene	ND	10
Dibutyl phthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Benzidine	ND	20
Butyl benzyl phthalate	ND	10
Bis(2-ethylhexyl) phthalate	ND	10
Chrysene	ND	10
Benzo(a)anthracene	ND	10
3,3'-Dichlorobenzidine	ND	20
Di-n-octyl phthalate	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-c,d)pyrene	ND	10
Dibenzo(a,h)anthracene	ND	10
Benzo(ghi)perylene	ND	10
N-Nitrosodimethylamine	ND	10

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: Field Blank

Sample No.: 165264 Job No.: B351 Fraction: BNA

Concentration Units: PPM PPB

COMPOUND NAME	Retention Time	Estimated Conc.
1. NO SEMI-VOLATILE ORGANICS FOUND		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1804

ORGANOCHLORINE PESTICIDES and PCBs

Parameter	Lab No. 65264 Client ID: Field Blank Units: ug/l	Detection Limit Units: ug/l
Aldrin	ND	0.30
alpha-BHC	ND	0.05
beta-BHC	ND	0.10
delta-BHC	ND	0.05
gamma-BHC (Lindane)	ND	0.10
Chlordane	ND	0.50
4,4'-DDD	ND	0.10
4,4'-DDE	ND	0.10
4,4'-DDT	ND	0.10
Dieldrin	ND	0.10
Endosulfan I	ND	0.10
Endosulfan II	ND	0.10
Endosulfan sulfate	ND	0.10
Endrin	ND	0.10
Endrin aldehyde	ND	0.10
Heptachlor	ND	0.20
Heptachlor epoxide	ND	0.05
Toxaphene	ND	1.0
PCB-1016	ND	0.50
PCB-1221	ND	0.50
PCB-1232	ND	0.50
PCB-1242	ND	0.50
PCB-1248	ND	0.50
PCB-1254	ND	0.50
PCB-1260	ND	0.50

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543

METALS and WET CHEM

Parameter	Lab No. 65264 Client ID: Field Blank Units: ug/l	Detection Limit Units: ug/l	Method Code
Antimony	ND	60	P
Arsenic	ND	10	F
Beryllium	ND	5.0	P
Cadmium	ND	5.0	P
Chromium	ND	10	P
Copper	ND	25	P
Lead	ND	3.0	F
Mercury	ND	0.2	CV
Nickel	ND	40	P
Selenium	ND	5.0	F
Silver	ND	10	P
Thallium	ND	10	F
Zinc	ND	20	P
Cyanide	ND	5.0	
Phenols	ND	50	

Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

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Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1797

PCB Analysis

Parameter	Lab No. 65264A Client ID: FB C-1 Units: ug/l	Detection Limit Units: ug/l
PCB-1016	ND	0.5
PCB-1221	ND	0.5
PCB-1232	ND	0.5
PCB-1242	ND	0.5
PCB-1248	ND	0.5
PCB-1254	ND	0.5
PCB-1260	ND	0.5

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 2044

QA SUMMARY - DUPLICATE and BLANK

VOLATILE ORGANICS - SOIL

Parameter	Sample Lab No. 65037SPK File ID: >MS037 81.4% Solid ug/kg (Dry Wt.)	Duplicate Lab No. 65037SPK File ID: >MSD37 81.4% Solid ug/kg (Dry Wt.)	3/31/92 File ID: >4B091 Lab Blank ug/kg[1]
Benzene	300	300	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Bromomethane	ND	ND	ND
Carbon tetrachloride	ND	ND	ND
Chlorobenzene	310	310	ND
Chloroethane	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND
Chloroform	ND	ND	ND
Chloromethane	ND	ND	ND
Dibromochloromethane	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,1-Dichloroethene	280	280	ND
trans-1,2-Dichloroethene	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND
Ethyl benzene	ND	ND	ND
Methylene chloride	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Toluene	310	310	ND
1,1,1-Trichloroethane	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND
Trichloroethene	280	290	ND
Trichlorofluoromethane	ND	ND	ND
Vinyl chloride	ND	ND	ND
Xylenes (Total)	ND	ND	ND

[1]Blank concentration based on a 1.0 gram sample.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 2044C

QA SUMMARY - BLANK - 4/3/92

VOLATILE ORGANICS - SOIL

Parameter	4/3/92 Lab Blank File ID: >RB094 Units: ug/kg[1]	Detection Limit Units: ug/kg
Benzene	ND	25
Bromodichloromethane	ND	25
Bromoform	ND	25
Bromomethane	ND	50
Carbon tetrachloride	ND	25
Chlorobenzene	ND	25
Chloroethane	ND	50
2-Chloroethylvinyl ether	ND	50
Chloroform	ND	25
Chloromethane	ND	50
Dibromochloromethane	ND	25
1,1-Dichloroethane	ND	25
1,2-Dichloroethane	ND	25
1,1-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
trans-1,3-Dichloropropene	ND	25
Ethyl benzene	ND	25
Methylene chloride	ND	25
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	ND	25
1,1,1-Trichloroethane	ND	25
1,1,2-Trichloroethane	ND	25
Trichloroethene	ND	25
Trichlorofluoromethane	ND	25
Vinyl chloride	ND	50
Xylenes (Total)	ND	25

[1]Blank concentration based on a 1.0 gram sample.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 1796

QA SUMMARY - DUPLICATE and BLANK

ACID EXTRACTABLES - SOIL

Parameter	Sample Lab No. 65048SPK 78.4% Solid File ID: >MS048 ug/kg (Dry Wt.)	Duplicate Lab No. 65048SPK 78.4% Solid File ID: >MSD48 ug/kg (Dry Wt.)	3/30/92 Lab Blank File ID: >SBC30 ug/kg[1]
2-Chlorophenol	3800	3700	ND
2-Nitrophenol	ND	ND	ND
Phenol	3600	3600	ND
2,4-Dimethylphenol	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND
4-Chloro-3-methylphenol	3400	3400	ND
2,4-Dinitrophenol	ND	ND	ND
2-Methyl-4,6-dinitrophenol	ND	ND	ND
Pentachlorophenol	3400	3500	ND
4-Nitrophenol	3300	3500	ND

[1]Blank concentration based on a 30 gram sample.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 1796

QA SUMMARY - DUPLICATE and BLANK

BASE/NEUTRAL EXTRACTABLES - SOIL

Parameter	Sample Lab No. 65048SPK 78.4% Solid File ID: >MS048 ug/kg (Dry Wt.)	Duplicate Lab No. 65048SPK 78.4% Solid File ID: >MSD48 ug/kg (Dry Wt.)	3/30/92 Lab Blank File ID: >SBC30 ug/kg[1]
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	3600	3500	ND
Hexachloroethane	ND	ND	ND
Bis(2-chloroethyl) ether	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
Bis(2-chloroisopropyl) ether	ND	ND	ND
N-Nitrosodi-n-propylamine	3300	3300	ND
Nitrobenzene	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND
1,2,4-Trichlorobenzene	3500	3500	ND
Isophorone	ND	ND	ND
Naphthalene	ND	ND	ND
Bis(2-chloroethoxy) methane	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND
Acenaphthylene	ND	ND	ND
Acenaphthene	3500	3400	ND
Dimethyl phthalate	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND
Fluorene	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND
2,4-Dinitrotoluene	3100	3000	ND
Diethylphthalate	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND
Hexachlorobenzene	ND	ND	ND

[1]Blank concentration based on a 30 gram sample.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 1796

QA SUMMARY - DUPLICATE and BLANK

BASE/NEUTRAL EXTRACTABLES - SOIL (con't)

Parameter	Sample Lab No. 65048SPK 78.4% Solid File ID: >MS048 ug/kg (Dry Wt.)	Duplicate Lab No. 65048SPK 78.4% Solid File ID: >MSD48 ug/kg (Dry Wt.)	3/30/92 Lab Blank File ID: >SBC30 ug/kg[1]
4-Bromophenyl phenyl ether	ND	ND	ND
Phenanthrene	ND	ND	ND
Anthracene	ND	ND	ND
Dibutyl phthalate	ND	ND	ND
Fluoranthene	ND	ND	ND
Pyrene	3000	3100	ND
Benzidine	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND
Bis(2-ethylhexyl) phthalate	ND	ND	ND
Chrysene	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND
Benzo(ghi)perylene	ND	ND	ND
N-Nitrosodimethylamine	ND	ND	ND

[1]Blank concentration based on a 30 gram sample.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1796A

QA SUMMARY - BLANK - 4/3/92

ACID EXTRACTABLES - SOIL

Parameter	4/3/92 Lab Blank File ID: >SBD03 Units: ug/kg[1]	Detection Limit Units: ug/kg
2-Chlorophenol	ND	330
2-Nitrophenol	ND	330
Phenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dichlorophenol	ND	330
2,4,6-Trichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4-Dinitrophenol	ND	1700
2-Methyl-4,6-dinitrophenol	ND	1700
Pentachlorophenol	ND	1700
4-Nitrophenol	ND	1700

[1]Blank concentration based on a 30 gram sample.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1796A

QA SUMMARY - BLANK - 4/3/92

BASE/NEUTRAL EXTRACTABLES - SOIL

Parameter	4/3/92 Lab Blank File ID: >SBD03 Units: ug/kg[1]	Detection Limit Units: ug/kg
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Hexachloroethane	ND	330
Bis(2-chloroethyl) ether	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl) ether	ND	330
N-Nitrosodi-n-propylamine	ND	330
Nitrobenzene	ND	330
Hexachlorobutadiene	ND	330
1,2,4-Trichlorobenzene	ND	330
Isophorone	ND	330
Naphthalene	ND	330
Bis(2-chloroethoxy) methane	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Dimethyl phthalate	ND	330
2,6-Dinitrotoluene	ND	330
Fluorene	ND	330
4-Chlorophenyl phenyl ether	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
N-Nitrosodiphenylamine	ND	330
Hexachlorobenzene	ND	330

[1]Blank concentration based on a 30 gram sample.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1796A

QA SUMMARY - BLANK - 4/3/92

BASE/NEUTRAL EXTRACTABLES - SOIL (con't)

Parameter	4/3/92 Lab Blank File ID: >SBD03 Units: ug/kg[1]	Detection Limit Units: ug/kg
4-Bromophenyl phenyl ether	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Dibutyl phthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	670
Butyl benzyl phthalate	ND	330
Bis(2-ethylhexyl) phthalate	ND	330
Chrysene	ND	330
Benzo(a)anthracene	ND	330
3,3'-Dichlorobenzidine	ND	670
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-c,d)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330
N-Nitrosodimethylamine	ND	330

[1]Blank concentration based on a 30 gram sample.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 1805

QA SUMMARY - DUPLICATE and BLANK

PESTICIDES/PCBs - SOIL

Parameter	Sample Lab No. 65262SPK 79.9% Solid File ID:D08BC07A ug/kg (Dry Wt.)	Duplicate Lab No. 65262SPK 79.9% Solid File ID:D08BC06A ug/kg (Dry Wt.)	4/7/92 Lab Blank File ID:D08BC04 ug/kg
Aldrin	98	79	ND
alpha-BHC	94	76	ND
beta-BHC	79	67	ND
delta-BHC	78	59	ND
gamma-BHC (Lindane)	92	76	ND
Chlordane	ND	ND	ND
4,4'-DDD	100	82	ND
4,4'-DDE	100	82	ND
4,4'-DDT	110	89	ND
Dieldrin	91	74	ND
Endosulfan I	96	78	ND
Endosulfan II	73	59	ND
Endosulfan sulfate	110	85	ND
Endrin	110	90	ND
Endrin aldehyde	1.9	6.1	ND
Heptachlor	110	87	ND
Heptachlor epoxide	99	82	ND
Toxaphene	ND	ND	ND
PCB-1016	ND	ND	ND
PCB-1221	ND	ND	ND
PCB-1232	ND	ND	ND
PCB-1242	ND	ND	ND
PCB-1248	ND	ND	ND
PCB-1254	ND	ND	ND
PCB-1260	ND	ND	ND

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 1802

QA SUMMARY - DUPLICATE and BLANK

PCBs - SOIL

Parameter	Sample Lab No. 65135SPK 93.4% Solid File ID:D02AA12A ug/kg (Dry Wt.)	Duplicate Lab No. 65135SPK 93.4% Solid File ID:D02AA11A ug/kg (Dry Wt.)	3/31/92 Lab Blank File ID:D02AA05A ug/kg[1]
PCB-1016	ND	ND	ND
PCB-1221	ND	ND	ND
PCB-1232	ND	ND	ND
PCB-1242	ND	ND	ND
PCB-1248	ND	ND	ND
PCB-1254	ND	ND	ND
PCB-1260	230	210	ND

MATRIX SPIKE RECOVERY

Parameter	AMOUNT ADDED (ug)	SAMPLE AMOUNT (ug)	MATRIX SPIKE AMOUNT (ug)	MS % REC
PCB-1260	5.0	0.71	6.48	115

[1]Blank concentration based on a 30 gram sample.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1802

PCB Analysis - Lab Blank 4/7/92

Parameter	Lab Blank - 4/7/92 Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
PCB-1016	ND	80
PCB-1221	ND	80
PCB-1232	ND	80
PCB-1242	ND	80
PCB-1248	ND	80
PCB-1254	ND	80
PCB-1260	ND	80

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1887

QA SUMMARY - DUPLICATE and BLANK

METALS - SOIL

Parameter	Sample Lab No. 65018SPK 90.7% Solid mg/kg (Dry Wt.)	Duplicate Lab No. 65018SPK 90.7% Solid mg/kg (Dry Wt.)	Lab Blank mg/kg[1]
Antimony	3.6	5.9	ND
Arsenic	5.97	5.73	ND
Beryllium	5.74	5.76	ND
Cadmium	5.62	5.62	ND
Chromium	35.1	35.5	ND
Copper	35.6	34.1	ND
Lead	80.6	79.4	ND
Mercury	0.56	0.56	ND
Nickel	61.8	61.2	ND
Selenium	1.2	1.5	ND
Silver	5.1	6.1	ND
Thallium	5.06	5.31	ND
Zinc	71.8	71.6	ND

[1]Blank concentrations based on the following sample weights:
All metals except mercury - 1.0 gram.
Mercury - 0.2 gram.

ENVIROTECH RESEARCH, INC.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1193

QA SUMMARY - DUPLICATE and BLANK

TOTAL CYANIDE - SOIL

#64138SPK Sample Units: mg/kg	#64138SPK Duplicate Units: mg/kg	Lab Blank Units: mg/kg
12.1	12.5	ND

MATRIX SPIKE RECOVERY

Envirotech Sample #	AMOUNT ADDED (ug)	SAMPLE AMT. (ug)	MS AMT. (ug)	MS % REC
64138	50.0	0.0	46.9	93.7

ENVIROTECH RESEARCH, INC.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1183

QA SUMMARY - DUPLICATE and BLANK

PHENOL - SOIL

#64181SPK Sample Units: mg/kg	#64181SPK Duplicate Units: mg/kg	Lab Blank Units: mg/kg
40.5	39.6	ND

MATRIX SPIKE RECOVERY

Envirotech Sample #	AMOUNT ADDED (ug)	SAMPLE AMT. (ug)	MS AMT. (ug)	MS % REC
64181	200	0.0	171	86

ENVIROTECH RESEARCH, INC.

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 2513

QA SUMMARY - DUPLICATE and BLANK

VOLATILE ORGANICS - WATER

Parameter	Sample Lab No. 65271SPK File ID: >MS271 Units: ug/l	Duplicate Lab No. 65271SPK File ID: >MSD71 Units: ug/l	4/3/92 Lab Blank File ID: >1B094 Units: ug/l
Benzene	52	52	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Bromomethane	ND	ND	ND
Carbon tetrachloride	ND	ND	ND
Chlorobenzene	54	53	ND
Chloroethane	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND
Chloroform	7.9	8.1	ND
Chloromethane	ND	ND	ND
Dibromochloromethane	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND
trans-1,2-Dichloroethene	45	45	ND
1,2-Dichloropropane	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND
Ethyl benzene	ND	ND	ND
Methylene chloride	2.3J	2.8J	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Toluene	54	53	ND
1,1,1-Trichloroethane	3.6J	3.5J	ND
1,1,2-Trichloroethane	ND	ND	ND
Trichloroethene	53	52	ND
Trichlorofluoromethane	ND	ND	ND
Vinyl chloride	ND	ND	ND
Xylenes(Total)	ND	ND	ND

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Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 1795

QA SUMMARY - DUPLICATE and BLANK

ACID EXTRACTABLES - WATER

Parameter	Sample Lab No. 65096SPK File ID: >MS096 Units: ug/l	Duplicate Lab No. 65096SPK File ID: >MSD96 Units: ug/l	3/31/92 Lab Blank File ID: >WBC31 Units: ug/l
2-Chlorophenol	120	110	ND
2-Nitrophenol	ND	ND	ND
Phenol	61	57	ND
2,4-Dimethylphenol	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND
4-Chloro-3-methylphenol	120	110	ND
2,4-Dinitrophenol	ND	ND	ND
2-Methyl-4,6-dinitrophenol	ND	ND	ND
Pentachlorophenol	130	130	ND
4-Nitrophenol	68	63	ND

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QA Batch No. 1795

QA SUMMARY - DUPLICATE and BLANK

BASE/NEUTRAL EXTRACTABLES - WATER

Parameter	Sample Lab No. 65096SPK File ID: >MS096 Units: ug/l	Duplicate Lab No. 65096SPK File ID: >MSD96 Units: ug/l	3/31/92 Lab Blank File ID: >WBC31 Units: ug/l
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	100	99	ND
Hexachloroethane	ND	ND	ND
Bis(2-chloroethyl) ether	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
Bis(2-chloroisopropyl) ether	ND	ND	ND
N-Nitrosodi-n-propylamine	120	120	ND
Nitrobenzene	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND
1,2,4-Trichlorobenzene	120	110	ND
Isophorone	ND	ND	ND
Naphthalene	ND	ND	ND
Bis(2-chloroethoxy) methane	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND
Acenaphthylene	ND	ND	ND
Acenaphthene	120	110	ND
Dimethyl phthalate	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND
Fluorene	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND
2,4-Dinitrotoluene	110	110	ND
Diethylphthalate	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND
Hexachlorobenzene	ND	ND	ND

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N.J. Certified Lab No. 12543
QA Batch No. 1795

QA SUMMARY - DUPLICATE and BLANK

BASE/NEUTRAL EXTRACTABLES - WATER (con't)

Parameter	Sample Lab No. 65096SPK File ID: >MS096 Units: ug/l	Duplicate Lab No. 65096SPK File ID: >MSD96 Units: ug/l	3/31/92 Lab Blank File ID: >WBC31 Units: ug/l
4-Bromophenyl phenyl ether	ND	ND	ND
Phenanthrene	ND	ND	ND
Anthracene	ND	ND	ND
Dibutyl phthalate	ND	ND	ND
Fluoranthene	ND	ND	ND
Pyrene	110	110	ND
Benzidine	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND
Bis(2-ethylhexyl) phthalate	ND	ND	ND
Chrysene	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND
Benzo(ghi)perylene	ND	ND	ND
N-Nitrosodimethylamine	ND	ND	ND

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1795A

QA SUMMARY - BLANK - 4/2/92

ACID EXTRACTABLES - WATER

Parameter	4/2/92 Lab Blank File ID: >WBD02 Units: ug/l	Detection Limit Units: ug/l
2-Clorophenol	ND	10
2-Nitrophenol	ND	10
Phenol	ND	10
2,4-Dimethylphenol	ND	10
2,4-Dichlorophenol	ND	10
2,4,6-Trichlorophenol	ND	10
4-Chloro-3-methylphenol	ND	10
2,4-Dinitrophenol	ND	50
2-Methyl-4,6-dinitrophenol	ND	50
Pentachlorophenol	ND	50
4-Nitrophenol	ND	50

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1795A

QA SUMMARY - BLANK - 4/2/92

BASE/NEUTRAL EXTRACTABLES - WATER (con't)

Parameter	4/2/92 Lab Blank File ID: >WBD02 Units: ug/l	Detection Limit Units: ug/l
4-Bromophenyl phenyl ether	ND	10
Phenanthrene	ND	10
Anthracene	ND	10
Dibutyl phthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Benzidine	ND	20
Butyl benzyl phthalate	ND	10
Bis(2-ethylhexyl) phthalate	ND	10
Chrysene	ND	10
Benzo(a)anthracene	ND	10
3,3'-Dichlorobenzidine	ND	20
Di-n-octyl phthalate	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-c,d)pyrene	ND	10
Dibenzo(a,h)anthracene	ND	10
Benzo(ghi)perylene	ND	10
N-Nitrosodimethylamine	ND	10

ENVIROTECH RESEARCH, INC.

QUALITY ASSURANCE SUMMARY

SEMI-VOLATILES

WATER MATRIX SPIKE RECOVERY

Sample #65096
File ID: >MS096
QA Batch #1795

	AMOUNT ADDED (ug)	SAMPLE AMOUNT (ug)	MATRIX SPIKE REC (ug)	MS % REC	% REC LIMITS
Phenol	100	0.0	48.0	48.0	12-89
2-Chlorophenol	100	0.0	91.4	91.4	27-123
1,4-Dichlorobenzene	100	0.0	80.9	80.9	36-97
N-Nitroso-di-n-Propylamine	100	0.0	96.1	96.1	41-116
1,2,4-Trichlorobenzene	100	0.0	96.7	96.7	39-98
4-Chloro-3-Methylphenol	100	0.0	96.6	96.6	23-97
Acenaphthene	100	0.0	93.4	93.4	46-118
4-Nitrophenol	100	0.0	53.4	53.4	10-80
2,4-Dinitrotoluene	100	0.0	90.0	90.0	24-96
Pentachlorophenol	100	0.0	105	105*	9-103
Pyrene	100	0.0	87.9	87.9	26-127

*Outside QC limits.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 1797

QA SUMMARY - DUPLICATE and BLANK

PCBs - WATER

Parameter	Sample Lab No. 64876SPK File ID:C24AA09A Units: ug/l	Duplicate Lab No. 64876SPK File ID:C24AA08A Units: ug/l	3/23/92 Lab Blank File ID:C24AA05A Units: ug/l
PCB-1016	ND	ND	ND
PCB-1221	ND	ND	ND
PCB-1232	ND	ND	ND
PCB-1242	ND	ND	ND
PCB-1248	9.9	10.0	ND

MATRIX SPIKE RECOVERY

Parameter	AMOUNT ADDED (ug)	SAMPLE AMOUNT (ug)	MATRIX SPIKE REC (ug)	MS % REC
PCB-1260	5.0	4.23	9.75	110

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1797

PCB Analysis - Lab Blank 4/2/92

Parameter	Lab Blank - 4/2/92 Units: ug/l	Detection Limit Units: ug/l
PCB-1016	ND	0.5
PCB-1221	ND	0.5
PCB-1232	ND	0.5
PCB-1242	ND	0.5
PCB-1248	ND	0.5
PCB-1254	ND	0.5
PCB-1260	ND	0.5

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 1804

QA SUMMARY - DUPLICATE and BLANK

PESTICIDES/PCBs - WATER

Parameter	Sample Lab No. 65371SPK File ID:D07BC11A Units: ug/l	Duplicate Lab No. 65371SPK File ID:D07BC10A Units: ug/l	4/6/92 Lab Blank File ID:D07BC08A Units: ug/l
Aldrin	1.9	2.0	ND
alpha-BHC	2.2	2.1	ND
beta-BHC	1.7	1.6	ND
delta-BHC	2.3	2.2	ND
gamma-BHC (Lindane)	2.2	2.1	ND
Chlordane	ND	ND	ND
4,4'-DDD	2.5	2.4	ND
4,4'-DDE	2.4	2.3	ND
4,4'-DDT	2.8	2.7	ND
Dieldrin	2.4	2.3	ND
Endosulfan I	2.2	2.2	ND
Endosulfan II	2.2	2.2	ND
Endosulfan sulfate	3.2	2.9	ND
Endrin	2.6	2.5	ND
Endrin aldehyde	2.1	2.1	ND
Heptachlor	2.3	2.2	ND
Heptachlor epoxide	2.3	2.3	ND
Toxaphene	ND	ND	ND
PCB-1016	ND	ND	ND
PCB-1221	ND	ND	ND
PCB-1232	ND	ND	ND
PCB-1242	ND	ND	ND
PCB-1248	ND	ND	ND
PCB-1254	ND	ND	ND
PCB-1260	ND	ND	ND

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1804

ORGANOCHLORINE PESTICIDES and PCBs

LAB BLANK - 4/2/92

Parameter	Lab Blank - 4/2/92 Units: ug/l	Detection Limit Units: ug/l
Aldrin	ND	0.30
alpha-BHC	ND	0.05
beta-BHC	ND	0.10
delta-BHC	ND	0.05
gamma-BHC (Lindane)	ND	0.10
Chlordane	ND	0.50
4,4'-DDD	ND	0.10
4,4'-DDE	ND	0.10
4,4'-DDT	ND	0.10
Dieldrin	ND	0.10
Endosulfan I	ND	0.10
Endosulfan II	ND	0.10
Endosulfan sulfate	ND	0.10
Endrin	ND	0.10
Endrin aldehyde	ND	0.10
Heptachlor	ND	0.20
Heptachlor epoxide	ND	0.05
Toxaphene	ND	1.00
PCB-1016	ND	0.50
PCB-1221	ND	0.50
PCB-1232	ND	0.50
PCB-1242	ND	0.50
PCB-1248	ND	0.50
PCB-1254	ND	0.50
PCB-1260	ND	0.50

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1896

QA SUMMARY - DUPLICATE and BLANK

METALS - WATER

Parameter	Sample Lab No. 65377SPK Units: ug/l	Duplicate Lab No. 65377SPK Units: ug/l	Lab Blank Units: ug/l
Antimony	510	520	ND
Arsenic	46	45	ND
Beryllium	51	51	ND
Cadmium	53	52	ND
Chromium	208	210	ND
Copper	266	265	ND
Lead	21	21	ND
Mercury[1]	0.97	0.97	ND
Nickel	541	546	ND
Selenium	11	11	ND
Silver	55	51	ND
Thallium	52	48	ND
Zinc	529	533	ND

[1]Duplicate was run on Sample #65378SPK.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1194

QA SUMMARY - DUPLICATE and BLANK

CYANIDE - WATER

#64570SPK Sample Units: ug/l	#64570SPK Duplicate Units: ug/l	Lab Blank Units: ug/l
45.9	46.8	ND

MATRIX SPIKE RECOVERY

Envirotech Sample #	AMOUNT ADDED (ug)	SAMPLE AMT. (ug)	MS AMT. REC (ug)	MS % REC
64570	50	3.2	22.9	39.5

*Recovery low due to sample matrix interference; blank spike recovery equals 84%.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1182

QA SUMMARY - DUPLICATE and BLANK

PHENOL - WATER

#64067SPK Sample Units: ug/l	#64067SPK Duplicate Units: ug/l	Lab Blank Units: ug/l
387	366	ND

MATRIX SPIKE RECOVERY

Envirotech Sample #	AMOUNT ADDED (ug)	SAMPLE AMT. (ug)	MS AMT. REC (ug)	MS % REC
64067	200	0.0	193	96.5

VINCENT UHL ASSOCIATES
NAME OF CLIENT (FOR REPORT AND BILLING)
1078 TAYLORSVILLE ROAD
ADDRESS
P.O. BOX 93
CITY STATE ZIP
WASHINGTON CROSSING, PA 18977
ATTENTION
JACKIE BARON
PHONE
(215) 321 2210

CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 2

ENVIROTECH JOB NO. B351

DIAMOND EAST LABORATORIES CORP.
PROJECT NAME

ENVIROTECH RESEARCH, INC.
777 NEW DURHAM ROAD
EDISON, N.J. 08817
(908) 549-3900

DATE SMPLD.	TIME SMPLD.	SMPLD. BY	MATRIX	PRES.	NO. OF CONT.	SAMPLE LOCATION/DESCRIPTION	ANALYSIS REQUESTED	ENVIROTECH SAMPLE NUMBER
03/31/92	11:10	V.Uhl	SOIL	NONE	1 - 8 ounce	C-1 (EAST)	PCBs	65258
03/31/92	1:10	V.Uhl	SOIL	NONE	1 - 8 ounce	C-2 (EAST + 1)	PCBs	65259
03/31/92	1:20	V.Uhl	SOIL	NONE	1 - 8 ounce	C-3 (EAST + 2)	PCBs	65260
03/31/92	1:30	V.Uhl	SOIL	NONE	1 - 8 ounce	C-4 (EAST + 3)	PCBs	65261
03/31/92	11:40	V.Uhl	SOIL	NONE	1 - 16 ounce	SOIL PILE 2 0-0.5 ft	VOCs + 15	65262
03/31/92	11:50	V.Uhl	SOIL	NONE	3 - 40 ml	SOIL PILE 2 1.5-2.0 ft	* PP + 40 (inc. Phenols + Cyanide)	↓
03/31/92	2:15	V.Uhl	SOIL	NONE	1 - 16 ounce	SOIL PILE 1 0-0.5 ft	* PP + 40 (inc. Phenols + Cyanide)	65263
03/31/92	2.25	V.Uhl	SOIL	NONE	3 - 40 ml	SOIL PILE 1 1.5-2.0 ft	VOCs + 15	↓
03/31/92	11:00	V.Uhl	water	NONE	1 - 1 liter	FB C-1	PCBs	65264 "A"
03/31/92	1:50	V.Uhl	Water	NONE	1 - 1 liter	FB	BNAs + 25	65264

TOTAL NO. OF CONTAINERS: _____

SPECIAL INSTRUCTIONS: * PP+40 SAMPLES SHOULD NOT BE TESTED FOR VOCs + 15

1. RELINQUISHED BY:	DATE/TIME	1. RECEIVED BY:	3. RELINQUISHED BY:	DATE/TIME	3. RECEIVED BY:
V.U.	3-31-92 6pm	[illegible] 3-31-92 6PM	[illegible]	4-1-92 11:20AM	[illegible]
2. RELINQUISHED BY:	**DATE/TIME**	**2. RECEIVED BY:**	**4. RELINQUISHED BY:**	**DATE/TIME**	**4. RECEIVED BY:**
	-			-	

CHAIN-OF-CUSTODY RECORD

NAME OF CLIENT (FOR REPORT AND BILLING): VINCENT UHL ASSOCIATES

ADDRESS: 1078 TAYLORSVILLE ROAD
PO BOX 93

CITY / STATE / ZIP: WASHINGTON CROSSING, PA 18977

ATTENTION: JACKIE BARON

PHONE: 215 321 2210

ENVIROTECH JOB NO. _____

PROJECT NAME: DIAMOND EAST LABORATORIES CORP

ENVIROTECH RESEARCH, INC.
777 NEW DURHAM ROAD
EDISON, N.J. 08817
(908) 549-3900

DATE SMPLD.	TIME SMPLD.	SMPLD. BY	MATRIX	PRES.	NO. OF CONT.	SAMPLE LOCATION/DESCRIPTION	ANALYSIS REQUESTED	ENVIROTECH SAMPLE NUMBER
03/31/92	1:50	V. Uhl	Water	None	1 - 1 liter	FB	PESTICIDES/PCBs	65264
03/31/92	1:50	V. Uhl	Water	H_2SO_4	1 - 1 liter	FB	PHENOLS	
03/31/92	1:50	V. Uhl	Water	HNO_3	1 - 1/2 liter	FB	PP METALS	
03/31/92	1:50	V. Uhl	Water	NaOH	1 - 1/2 liter	FB	CYANIDE	
03/31/92	1:50	V. Uhl	Water	HCl	2 - 40 ml	FB	VOCs + 15	

TOTAL NO. OF CONTAINERS: 20

SPECIAL INSTRUCTIONS: _____

1. RELINQUISHED BY:	DATE/TIME	1. RECEIVED BY:	3. RELINQUISHED BY:	DATE/TIME	3. RECEIVED BY:
[signature]	4-1-92 - 11:20A	[signature]		-	
2. RELINQUISHED BY:	**DATE/TIME**	**2. RECEIVED BY:**	**4. RELINQUISHED BY:**	**DATE/TIME**	**4. RECEIVED BY:**
	-			-	

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (908) 549-3900
Fax: (908) 549-3679

MAY 1 8 1992

Filed

April 16, 1992

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977

Attention: Ms. Jaclyn Baron

Re: Job No. B344 - Diamond East Lab

Dear Ms. Baron:

Enclosed are the results you requested for the following samples taken 3/30/92:

Lab No.	Client ID	Analysis Requested
65189	A-1-North	PAH +15 & PHC
65190	A-2-Central	PHC
65191	A-3-South	PHC
65192	FB-A-1-North	PHC
65193	B-1-Southwest	VOA +15, BN +15, Cd, Cr, Cu, Zn & PHC
65194	B-2-West	VOA +15, BN +15, Cd, Cr, Cu, Zn & PHC
65195	B-3-Southeast	VOA +15, BN +15, Cd, Cr, Cu, Zn & PHC
65196	FB-B-1-Southwest	VOA +15, BN +15, Cd, Cr, Cu & Zn

An invoice for our services is also enclosed. Please call me at 549-3900 if you have any questions.

Very truly yours,

Michael J. Urban
Laboratory Manager

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1794C

PAH (GC/MS)

Parameter	Lab No. 65189 Client ID: A-1-North 80.9% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
Naphthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Fluorene	ND	330
Phenanthrene	36JB	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Chrysene	ND	330
Benzo(a)anthracene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-c,d)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: A-1-N

Sample No.: 65189-3611 Job No.: 0344 Fraction: BN

Concentration Units: PPM (PPB)

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	Unknown	28.56	330
2.	"	31.58	370
3.	"	35.22	540
4.	"	36.46	490
5.	"	37.12	410
6.	"	37.65	410
7.	"	38.03	740
8.	"	38.85	410
9.	"	39.36	410
10.	"	39.57	740
11.	"	40.07	660
12.	"	40.31	1,200
13.	"	41.37	1,300
14.	"	42.77	660
15.	"	42.97	410
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 2309

PETROLEUM HYDROCARBONS

Envirotech Sample #	Client ID	% Solid	Petroleum Hydrocarbons mg/kg (Dry Wt.)
65189	A-1-North	80.9	738
65190	A-2-Central	83.7	ND
65191	A-3-South	84.0	ND
65193	B-1-Southwest	80.6	ND
65194	B-2-West	88.4	ND
65195	B-3-Southeast	82.9	ND

Detection Limit for Petroleum Hydrocarbons is 25 mg/kg.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 2306

PETROLEUM HYDROCARBONS

Envirotech Sample #	Client ID	Petroleum Hydrocarbons Units: mg/l
65192	FB-A-1-North	ND

Detection Limit for Petroleum Hydrocarbons is 1.0 mg/l.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 2048A

VOLATILE ORGANICS

Parameter	Lab No. 65193 Client ID: B-1-Southwest 80.6% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
Benzene	ND	25
Bromodichloromethane	ND	25
Bromoform	ND	25
Bromomethane	ND	50
Carbon tetrachloride	ND	25
Chlorobenzene	ND	25
Chloroethane	ND	50
2-Chloroethylvinyl ether	ND	50
Chloroform	ND	25
Chloromethane	ND	50
Dibromochloromethane	ND	25
1,1-Dichloroethane	ND	25
1,2-Dichloroethane	ND	25
1,1-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
trans-1,3-Dichloropropene	ND	25
Ethyl benzene	ND	25
Methylene chloride	ND	25
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	ND	25
1,1,1-Trichloroethane	ND	25
1,1,2-Trichloroethane	ND	25
Trichloroethene	ND	25
Trichlorofluoromethane	ND	25
Vinyl chloride	ND	50
Xylenes (Total)	ND	25

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: B-1

Sample No.: 65193 Job No.: B344 Fraction: VOC

Concentration Units: PPM (PPB)

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO VOLATILE ORGANICS COMPOUNDS FOUND PR		
2.			
3.			
4.			
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1798

BASE/NEUTRAL EXTRACTABLES

Parameter	Lab No. 65193 Client ID: B-1-Southwest 80.6% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Hexachloroethane	ND	330
Bis(2-chloroethyl) ether	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl) ether	ND	330
N-Nitrosodi-n-propylamine	ND	330
Nitrobenzene	ND	330
Hexachlorobutadiene	ND	330
1,2,4-Trichlorobenzene	ND	330
Isophorone	ND	330
Naphthalene	ND	330
Bis(2-chloroethoxy) methane	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Dimethyl phthalate	ND	330
2,6-Dinitrotoluene	ND	330
Fluorene	ND	330
4-Chlorophenyl phenyl ether	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
N-Nitrosodiphenylamine	ND	330
Hexachlorobenzene	ND	330

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1798

BASE/NEUTRAL EXTRACTABLES (con't)

Parameter	Lab No. 65193 Client ID: B-1-Southwest 80.6% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
4-Bromophenyl phenyl ether	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Dibutyl phthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	670
Butyl benzyl phthalate	ND	330
Bis(2-ethylhexyl) phthalate	ND	330
Chrysene	ND	330
Benzo(a)anthracene	ND	330
3,3'-Dichlorobenzidine	ND	670
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-c,d)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330
N-Nitrosodimethylamine	ND	330

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: B-1-SOUTH WEST

Sample No.: 65193 Job No.: 8344 Fraction: BN

Concentration Units: PPM PPB

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO SEMI-VOLATILE ORGANICS FOUND gp		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1887

METALS

Parameter	Lab No. 65193 Client ID: B-1-Southwest 80.6% Solid Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code
Cadmium	ND	0.5	P
Chromium	65.3	1.0	P
Copper	35.7	2.5	P
Zinc	61.2	2.0	P

Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 2048A

VOLATILE ORGANICS

Parameter	Lab No. 65194 Client ID: B-2-West 88.4% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
Benzene	ND	25
Bromodichloromethane	ND	25
Bromoform	ND	25
Bromomethane	ND	50
Carbon tetrachloride	ND	25
Chlorobenzene	ND	25
Chloroethane	ND	50
2-Chloroethylvinyl ether	ND	50
Chloroform	ND	25
Chloromethane	ND	50
Dibromochloromethane	ND	25
1,1-Dichloroethane	ND	25
1,2-Dichloroethane	ND	25
1,1-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
trans-1,3-Dichloropropene	ND	25
Ethyl benzene	ND	25
Methylene chloride	ND	25
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	ND	25
1,1,1-Trichloroethane	ND	25
1,1,2-Trichloroethane	ND	25
Trichloroethene	ND	25
Trichlorofluoromethane	ND	25
Vinyl chloride	ND	50
Xylenes (Total)	ND	25

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: B-2

Sample No.: 65194 Job No.: 6344 Fraction: VOC

Concentration Units: PPM (PPB)

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO VOLATILE ORGANICS COMPOUNDS FOUND		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1798A

BASE/NEUTRAL EXTRACTABLES

Parameter	Lab No. 65194 Client ID: B-2-West 88.4% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Hexachloroethane	ND	330
Bis(2-chloroethyl) ether	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl) ether	ND	330
N-Nitrosodi-n-propylamine	ND	330
Nitrobenzene	ND	330
Hexachlorobutadiene	ND	330
1,2,4-Trichlorobenzene	ND	330
Isophorone	ND	330
Naphthalene	ND	330
Bis(2-chloroethoxy) methane	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Dimethyl phthalate	ND	330
2,6-Dinitrotoluene	ND	330
Fluorene	ND	330
4-Chlorophenyl phenyl ether	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
N-Nitrosodiphenylamine	ND	330
Hexachlorobenzene	ND	330

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1798A

BASE/NEUTRAL EXTRACTABLES (con't)

Parameter	Lab No. 65194 Client ID: B-2-West 88.4% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
4-Bromophenyl phenyl ether	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Dibutyl phthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	670
Butyl benzyl phthalate	ND	330
Bis(2-ethylhexyl) phthalate	ND	330
Chrysene	ND	330
Benzo(a)anthracene	ND	330
3,3'-Dichlorobenzidine	ND	670
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-c,d)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330
N-Nitrosodimethylamine	ND	330

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: B-2-West

Sample No.: 105194 Job No.: B344 Fraction: BN

Concentration Units: PPM PPB

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO SEMI-VOLATILE ORGANICS FOUND SP		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1887

METALS

Parameter	Lab No. 65194 Client ID: B-2-West 88.4% Solid Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code
Cadmium	ND	0.5	P
Chromium	13.7	1.0	P
Copper	28.2	2.5	P
Zinc	30.2	2.0	P

Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 2048A

VOLATILE ORGANICS

Parameter	Lab No. 65195 Client ID: B-3-Southeast 82.9% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
Benzene	ND	25
Bromodichloromethane	ND	25
Bromoform	ND	25
Bromomethane	ND	50
Carbon tetrachloride	ND	25
Chlorobenzene	ND	25
Chloroethane	ND	50
2-Chloroethylvinyl ether	ND	50
Chloroform	ND	25
Chloromethane	ND	50
Dibromochloromethane	ND	25
1,1-Dichloroethane	ND	25
1,2-Dichloroethane	ND	25
1,1-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
trans-1,3-Dichloropropene	ND	25
Ethyl benzene	ND	25
Methylene chloride	ND	25
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	ND	25
1,1,1-Trichloroethane	ND	25
1,1,2-Trichloroethane	ND	25
Trichloroethene	ND	25
Trichlorofluoromethane	ND	25
Vinyl chloride	ND	50
Xylenes (Total)	ND	25

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: B-3

Sample No.: 65195 Job No.: B344 Fraction: VOC

Concentration Units: PPM PPB

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO VOLATILE ORGANICS COMPOUNDS FOUND		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1798A

BASE/NEUTRAL EXTRACTABLES

Parameter	Lab No. 65195 Client ID: B-3-Southeast 82.9% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Hexachloroethane	ND	330
Bis(2-chloroethyl) ether	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl) ether	ND	330
N-Nitrosodi-n-propylamine	ND	330
Nitrobenzene	ND	330
Hexachlorobutadiene	ND	330
1,2,4-Trichlorobenzene	ND	330
Isophorone	ND	330
Naphthalene	ND	330
Bis(2-chloroethoxy) methane	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Dimethyl phthalate	ND	330
2,6-Dinitrotoluene	ND	330
Fluorene	ND	330
4-Chlorophenyl phenyl ether	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
N-Nitrosodiphenylamine	ND	330
Hexachlorobenzene	ND	330

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1798A

BASE/NEUTRAL EXTRACTABLES (con't)

Parameter	Lab No. 65195 Client ID: B-3-Southeast 82.9% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
4-Bromophenyl phenyl ether	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Dibutyl phthalate	ND	330
Fluoranthene	13J	330
Pyrene	11J	330
Benzidine	ND	670
Butyl benzyl phthalate	ND	330
Bis(2-ethylhexyl) phthalate	ND	330
Chrysene	12J	330
Benzo(a)anthracene	7.1J	330
3,3'-Dichlorobenzidine	ND	670
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	16J	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	7.1J	330
Indeno(1,2,3-c,d)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330
N-Nitrosodimethylamine	ND	330

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road
Washington Crossing, PA 18977
Attention: Mr. Jackie Baron

Report Date: 4/21/92
Job No.: B351 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 1795A

QA SUMMARY - BLANK - 4/2/92

BASE/NEUTRAL EXTRACTABLES - WATER

Parameter	4/2/92 Lab Blank File ID: >WBD02 Units: ug/l	Detection Limit Units: ug/l
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Hexachloroethane	ND	10
Bis(2-chloroethyl) ether	ND	10
1,2-Dichlorobenzene	ND	10
Bis(2-chloroisopropyl) ether	ND	10
N-Nitrosodi-n-propylamine	ND	10
Nitrobenzene	ND	10
Hexachlorobutadiene	ND	10
1,2,4-Trichlorobenzene	ND	10
Isophorone	ND	10
Naphthalene	ND	10
Bis(2-chloroethoxy) methane	ND	10
Hexachlorocyclopentadiene	ND	10
2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10
Acenaphthene	ND	10
Dimethyl phthalate	ND	10
2,6-Dinitrotoluene	ND	10
Fluorene	ND	10
4-Chlorophenyl phenyl ether	ND	10
2,4-Dinitrotoluene	ND	10
Diethylphthalate	ND	10
N-Nitrosodiphenylamine	ND	10
Hexachlorobenzene	ND	10

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: B-3-SOUTHEAST

Sample No.: 65795 Job No.: B344 Fraction: BN

Concentration Units: PPM (PPB)

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	HEXADECANOIC ACID	27.66	2,400
2.	OCTADECANOIC ACID	30.17	4,800
3.	EICOSANOIC ACID	32.26	1,800
4.	DOCOSANOIC ACID	34.40	480
5.	UNKNOWN	35.64	320
6.	"	35.98	240
7.	"	36.33	200
8.	"	37.48	400
9.	UNKNOWN ALKANE	39.34	200
10.	UNKNOWN	41.43	320
11.	"	42.04	320
12.	"	42.13	240
13.	γ - SITOSTEROL	42.79	1,500
14.	UNKNOWN STEROID	42.98	1,100
15.	UNKNOWN	45.07	200
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1887

METALS

Parameter	Lab No. 65195 Client ID: B-3-Southeast 82.9% Solid Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code
Cadmium	ND	0.5	P
Chromium	50.0	1.0	P
Copper	29.6	2.5	P
Zinc	40.6	2.0	P

Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 2513B

VOLATILE ORGANICS

Parameter	Lab No. 65196 Client ID: FB-B-1-Southwest Units: ug/l	Detection Limit Units: ug/l
Benzene	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Ethyl benzene	ND	5.0
Methylene chloride	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	10
Xylenes (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: FB-B-1

Sample No.: 65196 Job No.: B344 Fraction: VOC

Concentration Units: PPM PPB

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO VOLATILE ORGANICS COMPOUNDS FOUND		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1793E

BASE/NEUTRAL EXTRACTABLES

Parameter	Lab No. 65196 Client ID: FB-B-1-Southwest Units: ug/l	Detection Limit Units: ug/l
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Hexachloroethane	ND	10
Bis(2-chloroethyl) ether	ND	10
1,2-Dichlorobenzene	ND	10
Bis(2-chloroisopropyl) ether	ND	10
N-Nitrosodi-n-propylamine	ND	10
Nitrobenzene	ND	10
Hexachlorobutadiene	ND	10
1,2,4-Trichlorobenzene	ND	10
Isophorone	ND	10
Naphthalene	ND	10
Bis(2-chloroethoxy) methane	ND	10
Hexachlorocyclopentadiene	ND	10
2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10
Acenaphthene	ND	10
Dimethyl phthalate	ND	10
2,6-Dinitrotoluene	ND	10
Fluorene	ND	10
4-Chlorophenyl phenyl ether	ND	10
2,4-Dinitrotoluene	ND	10
Diethylphthalate	ND	10
N-Nitrosodiphenylamine	ND	10
Hexachlorobenzene	ND	10

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1793E

BASE/NEUTRAL EXTRACTABLES (con't)

Parameter	Lab No. 65196 Client ID: FB-B-1-Southwest Units: ug/l	Detection Limit Units: ug/l
4-Bromophenyl phenyl ether	ND	10
Phenanthrene	ND	10
Anthracene	ND	10
Dibutyl phthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Benzidine	ND	20
Butyl benzyl phthalate	ND	10
Bis(2-ethylhexyl) phthalate	ND	10
Chrysene	ND	10
Benzo(a)anthracene	ND	10
3,3'-Dichlorobenzidine	ND	20
Di-n-octyl phthalate	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-c,d)pyrene	ND	10
Dibenzo(a,h)anthracene	ND	10
Benzo(ghi)perylene	ND	10
N-Nitrosodimethylamine	ND	10

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: FB-B-1-SW

Sample No.: 65196 Job No.: B344 Fraction: BN

Concentration Units: PPM PPB

COMPOUND NAME	Retention Time	Estimated Conc.
1. NO SEMI-VOLATILE ORGANICS FOUND		
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1883

METALS

Parameter	Lab No. 65196 Client ID: FB-B-1-Southwest Units: ug/l	Detection Limit Units: ug/l	Method Code
Cadmium	ND	5.0	P
Chromium	ND	10	P
Copper	ND	25	P
Zinc	ND	20	P

Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch No. 2048

QA SUMMARY - DUPLICATE and BLANK

VOLATILE ORGANICS - SOIL

Parameter	Sample Lab No. 64967SPK File ID: >MS967 84.0% Solid ug/kg (Dry Wt.)	Duplicate Lab No. 64967SPK File ID: >MSD67 84.0% Solid ug/kg (Dry Wt.)	4/1/92 File ID: >BLK0 Lab Blank ug/kg[1]
Benzene	310	320	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Bromomethane	ND	ND	ND
Carbon tetrachloride	ND	ND	ND
Chlorobenzene	300	310	ND
Chloroethane	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND
Chloroform	ND	ND	ND
Chloromethane	ND	ND	ND
Dibromochloromethane	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,1-Dichloroethene	270	280	ND
trans-1,2-Dichloroethene	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND
Ethyl benzene	ND	ND	ND
Methylene chloride	21JB	ND	11J
1,1,2,2-Tetrachloroethane	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Toluene	310	320	ND
1,1,1-Trichloroethane	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND
Trichloroethene	290	290	ND
Trichlorofluoromethane	ND	ND	ND
Vinyl chloride	ND	ND	ND
Xylenes (Total)	ND	ND	ND

[1]Blank concentration based on a 1.0 gram sample.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 2048A

QA SUMMARY - BLANK - 4/2/92

VOLATILE ORGANICS - SOIL

Parameter	4/2/92 Lab Blank File ID: >4B093 Units: ug/kg[1]	Detection Limit Units: ug/kg
Benzene	ND	25
Bromodichloromethane	ND	25
Bromoform	ND	25
Bromomethane	ND	50
Carbon tetrachloride	ND	25
Chlorobenzene	ND	25
Chloroethane	ND	50
2-Chloroethylvinyl ether	ND	50
Chloroform	ND	25
Chloromethane	ND	50
Dibromochloromethane	ND	25
1,1-Dichloroethane	ND	25
1,2-Dichloroethane	ND	25
1,1-Dichloroethene	ND	25
trans-1,2-Dichloroethene	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
trans-1,3-Dichloropropene	ND	25
Ethyl benzene	ND	25
Methylene chloride	ND	25
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	ND	25
1,1,1-Trichloroethane	ND	25
1,1,2-Trichloroethane	ND	25
Trichloroethene	ND	25
Trichlorofluoromethane	ND	25
Vinyl chloride	ND	50
Xylenes (Total)	ND	25

[1]Blank concentration based on a 1.0 gram sample.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch No. 1794

QA SUMMARY - DUPLICATE and BLANK

BASE/NEUTRAL EXTRACTABLES - SOIL

Parameter	Sample Lab No. 64962SPK 93.6% Solid File ID: >MS962 ug/kg (Dry Wt.)	Duplicate Lab No. 64962SPK 93.6% Solid File ID: >MSD62 ug/kg (Dry Wt.)	3/26/92 Lab Blank File ID: >SBC26 ug/kg[1]
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	3000	3000	ND
Hexachloroethane	ND	ND	ND
Bis(2-chloroethyl) ether	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
Bis(2-chloroisopropyl) ether	ND	ND	ND
N-Nitrosodi-n-propylamine	3000	3000	ND
Nitrobenzene	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND
1,2,4-Trichlorobenzene	3200	3200	ND
Isophorone	ND	ND	ND
Naphthalene	ND	ND	ND
Bis(2-chloroethoxy) methane	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND
Acenaphthylene	ND	ND	ND
Acenaphthene	3000	3100	ND
Dimethyl phthalate	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND
Fluorene	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND
Diethylphthalate	3000	3000	ND
N-Nitrosodiphenylamine	ND	ND	ND
Hexachlorobenzene	ND	ND	ND

[1]Blank concentration based on a 30 gram sample.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch No. 1794

QA SUMMARY - DUPLICATE and BLANK

BASE/NEUTRAL EXTRACTABLES - SOIL (con't)

Parameter	Sample Lab No. 64962SPK 93.6% Solid File ID: >MS962 ug/kg (Dry Wt.)	Duplicate Lab No. 64962SPK 93.6% Solid File ID: >MSD62 ug/kg (Dry Wt.)	3/26/92 Lab Blank File ID: >SBC26 ug/kg[1]
4-Bromophenyl phenyl ether	ND	ND	ND
Phenanthrene	ND	ND	ND
Anthracene	ND	ND	ND
Dibutyl phthalate	ND	ND	ND
Fluoranthene	ND	ND	ND
Pyrene	3000	2900	ND
Benzidine	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND
Bis(2-ethylhexyl) phthalate	ND	ND	ND
Chrysene	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND
Benzo(ghi)perylene	ND	ND	ND
N-Nitrosodimethylamine	ND	ND	ND

[1]Blank concentration based on a 30 gram sample.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1794C

QA SUMMARY - BLANK - 4/8/92

BASE/NEUTRAL EXTRACTABLES - SOIL

Parameter	4/8/92 Lab Blank File ID: >SBD03 Units: ug/kg[1]	Detection Limit Units: ug/kg
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Hexachloroethane	ND	330
Bis(2-chloroethyl) ether	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl) ether	ND	330
N-Nitrosodi-n-propylamine	ND	330
Nitrobenzene	ND	330
Hexachlorobutadiene	ND	330
1,2,4-Trichlorobenzene	ND	330
Isophorone	ND	330
Naphthalene	ND	330
Bis(2-chloroethoxy) methane	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Dimethyl phthalate	ND	330
2,6-Dinitrotoluene	ND	330
Fluorene	ND	330
4-Chlorophenyl phenyl ether	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
N-Nitrosodiphenylamine	ND	330
Hexachlorobenzene	ND	330

[1]Blank concentration based on a 30 gram sample.

ENVIROTECH RESEARCH, INC.

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Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1794C

QA SUMMARY - BLANK - 4/8/92

BASE/NEUTRAL EXTRACTABLES - SOIL (con't)

Parameter	4/8/92 Lab Blank File ID: >SBD03 Units: ug/kg[1]	Detection Limit Units: ug/kg
4-Bromophenyl phenyl ether	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Dibutyl phthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	670
Butyl benzyl phthalate	ND	330
Bis(2-ethylhexyl) phthalate	ND	330
Chrysene	ND	330
Benzo(a)anthracene	ND	330
3,3'-Dichlorobenzidine	ND	670
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-c,d)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330
N-Nitrosodimethylamine	ND	330

[1]Blank concentration based on a 30 gram sample.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch No. 1798

QA SUMMARY - DUPLICATE and BLANK

BASE/NEUTRAL EXTRACTABLES - SOIL

Parameter	Sample Lab No. 65193SPK 80.6% Solid File ID: >193MS ug/kg (Dry Wt.)	Duplicate Lab No. 65193SPK 80.6% Solid File ID: >93MSD ug/kg (Dry Wt.)	4/8/92 Lab Blank File ID: >WBD08 ug/kg[1]
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	3100	3200	ND
Hexachloroethane	ND	ND	ND
Bis(2-chloroethyl) ether	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
Bis(2-chloroisopropyl) ether	ND	ND	ND
N-Nitrosodi-n-propylamine	3200	3400	ND
Nitrobenzene	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND
1,2,4-Trichlorobenzene	3100	3200	ND
Isophorone	ND	ND	ND
Naphthalene	ND	ND	ND
Bis(2-chloroethoxy) methane	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND
Acenaphthylene	ND	ND	ND
Acenaphthene	3300	3500	ND
Dimethyl phthalate	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND
Fluorene	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND
2,4-Dinitrotoluene	3200	3300	ND
Diethylphthalate	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND
Hexachlorobenzene	ND	ND	ND

[1]Blank concentration based on a 30 gram sample.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch No. 1798

QA SUMMARY - DUPLICATE and BLANK

BASE/NEUTRAL EXTRACTABLES - SOIL (con't)

Parameter	Sample Lab No. 65193SPK 80.6% Solid File ID: >193MS ug/kg (Dry Wt.)	Duplicate Lab No. 65193SPK 80.6% Solid File ID: >93MSD ug/kg (Dry Wt.)	4/8/92 Lab Blank File ID: >WBD08 ug/kg[1]
4-Bromophenyl phenyl ether	ND	ND	ND
Phenanthrene	ND	ND	ND
Anthracene	ND	ND	ND
Dibutyl phthalate	ND	ND	ND
Fluoranthene	ND	ND	ND
Pyrene	3200	3200	ND
Benzidine	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND
Bis(2-ethylhexyl) phthalate	ND	ND	ND
Chrysene	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND
Benzo(ghi)perylene	ND	ND	ND
N-Nitrosodimethylamine	ND	ND	ND

[1]Blank concentration based on a 30 gram sample.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1798A

QA SUMMARY - BLANK - 4/3/92

BASE/NEUTRAL EXTRACTABLES - SOIL

Parameter	4/3/92 Lab Blank File ID: >SBD03 Units: ug/kg[1]	Detection Limit Units: ug/kg
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Hexachloroethane	ND	330
Bis(2-chloroethyl) ether	ND	330
1,2-Dichlorobenzene	ND	330
Bis(2-chloroisopropyl) ether	ND	330
N-Nitrosodi-n-propylamine	ND	330
Nitrobenzene	ND	330
Hexachlorobutadiene	ND	330
1,2,4-Trichlorobenzene	ND	330
Isophorone	ND	330
Naphthalene	ND	330
Bis(2-chloroethoxy) methane	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Dimethyl phthalate	ND	330
2,6-Dinitrotoluene	ND	330
Fluorene	ND	330
4-Chlorophenyl phenyl ether	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
N-Nitrosodiphenylamine	ND	330
Hexachlorobenzene	ND	330

[1]Blank concentration based on a 30 gram sample.

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Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1798A

QA SUMMARY - BLANK - 4/3/92

BASE/NEUTRAL EXTRACTABLES - SOIL (con't)

Parameter	4/3/92 Lab Blank File ID: >SBD03 Units: ug/kg[1]	Detection Limit Units: ug/kg
4-Bromophenyl phenyl ether	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Dibutyl phthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	670
Butyl benzyl phthalate	ND	330
Bis(2-ethylhexyl) phthalate	ND	330
Chrysene	ND	330
Benzo(a)anthracene	ND	330
3,3'-Dichlorobenzidine	ND	670
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-c,d)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330
N-Nitrosodimethylamine	ND	330

[1]Blank concentration based on a 30 gram sample.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
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Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1887

QA SUMMARY - DUPLICATE and BLANK

METALS - SOIL

Parameter	Sample Lab No. 65018SPK 90.7% Solid mg/kg (Dry Wt.)	Duplicate Lab No. 65018SPK 90.7% Solid mg/kg (Dry Wt.)	Lab Blank mg/kg[1]
Cadmium	5.62	5.62	ND
Chromium	35.1	35.5	ND
Copper	35.6	34.1	ND
Zinc	71.8	71.6	ND

[1]Blank concentrations based on the following sample weights:
All metals - 1.0 gram.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 2309

QA SUMMARY - DUPLICATE and BLANK

PETROLEUM HYDROCARBONS - SOIL

#65079SPK Sample Units: mg/kg	#65079SPK Duplicate Units: mg/kg	Lab Blank Units: mg/kg
150	140	ND

MATRIX SPIKE RECOVERY

Envirotech Sample #	AMOUNT ADDED (ug)	SAMPLE AMT. (ug)	MS AMT. (ug)	MS % REC
65079	3570	0.0	3670	102

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch No. 2513

QA SUMMARY - DUPLICATE and BLANK

VOLATILE ORGANICS - WATER

Parameter	Sample Lab No. 65271SPK File ID: >MS271 Units: ug/l	Duplicate Lab No. 65271SPK File ID: >MSD71 Units: ug/l	4/3/92 Lab Blank File ID: >1B094 Units: ug/l
Benzene	52	52	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Bromomethane	ND	ND	ND
Carbon tetrachloride	ND	ND	ND
Chlorobenzene	54	53	ND
Chloroethane	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND
Chloroform	7.9	8.1	ND
Chloromethane	ND	ND	ND
Dibromochloromethane	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND
trans-1,2-Dichloroethene	45	45	ND
1,2-Dichloropropane	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND
Ethyl benzene	ND	ND	ND
Methylene chloride	2.3J	2.8J	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Toluene	54	53	ND
1,1,1-Trichloroethane	3.6J	3.5J	ND
1,1,2-Trichloroethane	ND	ND	ND
Trichloroethene	53	52	ND
Trichlorofluoromethane	ND	ND	ND
Vinyl chloride	ND	ND	ND
Xylenes(Total)	ND	ND	ND

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 2513B

QA SUMMARY - BLANK - 4/7/92

VOLATILE ORGANICS - WATER

Parameter	4/7/92 Lab Blank File ID: >1B098 Units: ug/l	Detection Limit Units: ug/l
Benzene	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Ethyl benzene	ND	5.0
Methylene chloride	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	10
Xylenes (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

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Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch No. 1793

QA SUMMARY - DUPLICATE and BLANK

BASE/NEUTRAL EXTRACTABLES - WATER

Parameter	Sample Lab No. 64904SPK File ID: >MS904 Units: ug/l	Duplicate Lab No. 64904SPK File ID: >MSD04 Units: ug/l	3/23/92 Lab Blank File ID: >WBC23 Units: ug/l
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	70	76	ND
Hexachloroethane	ND	ND	ND
Bis(2-chloroethyl) ether	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
Bis(2-chloroisopropyl) ether	ND	ND	ND
N-Nitrosodi-n-propylamine	84	85	ND
Nitrobenzene	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND
1,2,4-Trichlorobenzene	81	88	ND
Isophorone	ND	ND	ND
Naphthalene	ND	ND	ND
Bis(2-chloroethoxy) methane	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND
Acenaphthylene	ND	ND	ND
Acenaphthene	83	89	ND
Dimethyl phthalate	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND
Fluorene	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND
2,4-Dinitrotoluene	80	84	ND
Diethylphthalate	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND
Hexachlorobenzene	ND	ND	ND

ENVIROTECH RESEARCH, INC.

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Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch No. 1793

QA SUMMARY - DUPLICATE and BLANK

BASE/NEUTRAL EXTRACTABLES - WATER (con't)

Parameter	Sample Lab No. 64904SPK File ID: >MS904 Units: ug/l	Duplicate Lab No. 64904SPK File ID: >MSD04 Units: ug/l	3/23/92 Lab Blank File ID: >WBC23 Units: ug/l
4-Bromophenyl phenyl ether	ND	ND	ND
Phenanthrene	ND	ND	ND
Anthracene	ND	ND	ND
Dibutyl phthalate	ND	ND	ND
Fluoranthene	ND	ND	ND
Pyrene	92	94	ND
Benzidine	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND
Bis(2-ethylhexyl) phthalate	ND	ND	ND
Chrysene	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND
Benzo(ghi)perylene	ND	ND	ND
N-Nitrosodimethylamine	ND	ND	ND

ENVIROTECH RESEARCH, INC.

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Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1793E

QA SUMMARY - BLANK - 4/1/92

BASE/NEUTRAL EXTRACTABLES - WATER

Parameter	4/1/92 Lab Blank File ID: >WBD01 Units: ug/l	Detection Limit Units: ug/l
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Hexachloroethane	ND	10
Bis(2-chloroethyl) ether	ND	10
1,2-Dichlorobenzene	ND	10
Bis(2-chloroisopropyl) ether	ND	10
N-Nitrosodi-n-propylamine	ND	10
Nitrobenzene	ND	10
Hexachlorobutadiene	ND	10
1,2,4-Trichlorobenzene	ND	10
Isophorone	ND	10
Naphthalene	ND	10
Bis(2-chloroethoxy) methane	ND	10
Hexachlorocyclopentadiene	ND	10
2-Chloronaphthalene	ND	10
Acenaphthylene	ND	10
Acenaphthene	ND	10
Dimethyl phthalate	ND	10
2,6-Dinitrotoluene	ND	10
Fluorene	ND	10
4-Chlorophenyl phenyl ether	ND	10
2,4-Dinitrotoluene	ND	10
Diethylphthalate	ND	10
N-Nitrosodiphenylamine	ND	10
Hexachlorobenzene	ND	10

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
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Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1793E

QA SUMMARY - BLANK - 4/1/92

BASE/NEUTRAL EXTRACTABLES - WATER (con't)

Parameter	4/1/92 Lab Blank File ID: >WBC01 Units: ug/l	Detection Limit Units: ug/l
4-Bromophenyl phenyl ether	ND	10
Phenanthrene	ND	10
Anthracene	ND	10
Dibutyl phthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Benzidine	ND	20
Butyl benzyl phthalate	ND	10
Bis(2-ethylhexyl) phthalate	ND	10
Chrysene	ND	10
Benzo(a)anthracene	ND	10
3,3'-Dichlorobenzidine	ND	20
Di-n-octyl phthalate	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-c,d)pyrene	ND	10
Dibenzo(a,h)anthracene	ND	10
Benzo(ghi)perylene	ND	10
N-Nitrosodimethylamine	ND	10

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 1883

QA SUMMARY - DUPLICATE and BLANK

METALS - WATER

Parameter	Sample Lab No. 64983SPK Units: ug/l	Duplicate Lab No. 64983SPK Units: ug/l	Lab Blank Units: ug/l
Cadmium	53	52	ND
Chromium	206	208	ND
Copper	339	336	ND
Zinc	652	657	ND

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates
1078 Taylorsville Road P.O. Box 93
Washington Crossing, PA 18977
Attention: Ms. Jaclyn Baron

Report Date: 4/16/92
Job No.: B344 - Diamond East Lab
N.J. Certified Lab No. 12543
QA Batch 2306

QA SUMMARY - DUPLICATE and BLANK

PETROLEUM HYDROCARBONS - WATER

#65199SPK Sample Units: mg/l	#65199SPK Duplicate Units: mg/l	Lab Blank Units: mg/l
4.1	4.5	ND

MATRIX SPIKE RECOVERY

Envirotech Sample #	AMOUNT ADDED (ug)	SAMPLE AMT. (ug)	MS AMT. REC (ug)	MS % REC
65199	3570	0.0	3270	91.6

VINCENT UHL ASSOCIATES
NAME OF CLIENT (FOR REPORT AND BILLING)
1078 TAYLORSVILLE ROAD
ADDRESS
P.O. BOX 93
CITY STATE ZIP
WASHINGTON CROSSING PA 18977
ATTENTION
JACLYN BARON
PHONE
215 321 2210

CHAIN-OF-CUSTODY RECORD

ENVIROTECH JOB NO. B344

DIAMOND EAST LABORATORIES CORP
PROJECT NAME

ENVIROTECH RESEARCH, INC.
777 NEW DURHAM ROAD
EDISON, N.J. 08817
(908) 549-3900

DATE SMPLD.	TIME SMPLD.	SMPLD. BY	MATRIX	PRES.	NO. OF CONT.	SAMPLE LOCATION/DESCRIPTION	ANALYSIS REQUESTED	ENVIROTECH SAMPLE NUMBER
03/30/92	1155	V. UHL J. Baron	SOIL	NONE	1 - 8 ounce	A-1-NORTH	*TPHC "CONTINGENT RUSH"	65189
03/30/92	1200	V. UHL J. Baron	SOIL	NONE	1 - 8 ounce	A-2-CENTRAL	*TPHC "CONTINGENT RUSH"	65190
03/30/92	1205	V. UHL J. Baron	SOIL	NONE	1 - 8 ounce	A-3-SOUTH	*TPHC "CONTINGENT RUSH"	65191
03/30/92	1154	V. UHL J. Baron	WATER	H_2SO_4	1 - 1 liter	FB-A-1-NORTH	TPHC	65192
03/30/92	1400	V. UHL J. Baron	SOIL	NONE	1 - 8 ounce	B-1-SOUTHWEST	TPHC, BN+15, Cadmium Chromium Copper & Zinc	65193
03/30/92	1410	V. UHL J. Baron	SOIL	NONE	1 - 8 ounce	B-2-WEST	TPHC, BN+15, Cadmium Chromium Copper & Zinc	65194
03/30/92	1430	V. UHL J. Baron	SOIL	NONE	1 - 8 ounce	B-3-SOUTHEAST	TPHC, BN+15, Cadmium Chromium Copper & Zinc	65195
03/30/92	1400	V. UHL J. Baron	SOIL	NONE	3 - 40ml	B-1-SOUTHWEST	VOC+15	65196
03/30/92	1410	V. UHL J. Baron	SOIL	NONE	3 - 40ml	B-2-WEST	VOC+15	65197
03/30/92	1430	V. UHL J. Baron	SOIL	NONE	3 - 40ml	B-3-SOUTHEAST	VOC+15	65198

TOTAL NO. OF CONTAINERS: _____

SPECIAL INSTRUCTIONS: *SAMPLE W HIGHEST TPHC RESULT TO BE TESTED FOR B/N+15. CALL TO CONFIRM SAMPLE SELECTION PRIOR TO B/N TESTING.

1. RELINQUISHED BY:	DATE/TIME	1. RECEIVED BY:	3. RELINQUISHED BY:	DATE/TIME	3. RECEIVED BY:
Jaclyn Baron	3/31 - 2:50pm	[illegible]		-	
2. RELINQUISHED BY:	**DATE/TIME**	**2. RECEIVED BY:**	**4. RELINQUISHED BY:**	**DATE/TIME**	**4. RECEIVED BY:**
	-			-	

VINCENT UHL ASSOCIATES
NAME OF CLIENT (FOR REPORT AND BILLING)
1078 TAYLORSVILLE ROAD
ADDRESS
PO BOX 93
CITY STATE ZIP
WASHINGTON CROSSING, PA 18977
ATTENTION
JACLYN BARON
PHONE
215 321 2210

CHAIN-OF-CUSTODY RECORD

ENVIROTECH JOB NO. _____

DIAMOND EAST LABORATORIES CORP
PROJECT NAME

ENVIROTECH RESEARCH, INC.
777 NEW DURHAM ROAD
EDISON, N.J. 08817
(908) 549-3900

DATE SMPLD.	TIME SMPLD.	SMPLD. BY	MATRIX	PRES.	NO. OF CONT.	SAMPLE LOCATION/DESCRIPTION	ANALYSIS REQUESTED	ENVIROTECH SAMPLE NUMBER
03/30/92	1400	V. Uhl J. Baron	WATER	NONE	1 - 1 liter	FB-B-1-SOUTHWEST	BN+15	65196
03/30/92	1400	V. Uhl J. Baron	WATER	HNO3	1 - 1/2 liter	FB-B-1-SOUTHWEST	Cadmium, Chromium Copper & Zinc	↓
03/30/92	1400	V. Uhl J. Baron	WATER	HCL	2 - 40 ml	FB-B-1-SOUTHWEST	VOC+15	

TOTAL NO. OF CONTAINERS: 20

SPECIAL INSTRUCTIONS: _____

1. RELINQUISHED BY:	DATE/TIME	1. RECEIVED BY:	3. RELINQUISHED BY:	DATE/TIME	3. RECEIVED BY:
Jaclyn Baron	3-31-92-2:50pm	[illegible]		-	
2. RELINQUISHED BY:	DATE/TIME	2. RECEIVED BY:	4. RELINQUISHED BY:	DATE/TIME	4. RECEIVED BY:
	-			-	

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ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (908) 549-3900
Fax: (908) 549-3679

Purged

July 14, 1992

Vincent UHL Associates, Inc.
1078 Taylorsville Road
Washington Crossing, PA 18907

Attention: Mr. A. Rana

Re: Job No. B933 - Diamond East

Dear Mr. Rana:

Enclosed are the results you requested for the following samples taken 6/22/92:

Lab No.	Client ID	Analysis Requested
68658	TB-7 2.0-2.5	VOA +15
68659	TB-7 2.5-3.0	VOA +15
68660	Field Blank	VOA +15

An invoice for our services is also enclosed. Please call me at 549-3900 if you have any questions.

Very truly yours,

Michael J. Urban
Laboratory Manager

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates, Inc.
1078 Taylorsville Road
Washington Crossing, PA 18907
Attention: Mr. A. Rana

Report Date: 7/14/92
Job No.: B933 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 2114D

VOLATILE ORGANICS

Lab No. 68658
Client ID: TB-7 2.0-2.5
82.6% Solid

Parameter	Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
Benzene	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Ethyl benzene	ND	5.0
Methylene chloride	6.3B	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	18	5.0
Toluene	260	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Trichloroethene	7.2	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	10
Xylenes (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: TB-7/2-2.5

Sample No.: 68658 Job No.: B933 Fraction: VOC

Concentration Units: PPM PPB

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	Acetone	5.97	16
2.			
3.			
4.			
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25.			

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates, Inc.
1078 Taylorsville Road
Washington Crossing, PA 18907
Attention: Mr. A. Rana

Report Date: 7/14/92
Job No.: B933 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 2114D

VOLATILE ORGANICS

Parameter	Lab No. 68659 Client ID: TB-7 2.5-3.0 79.0% Solid Units: ug/kg (Dry Weight)	Detection Limit Units: ug/kg
Benzene	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Ethyl benzene	ND	5.0
Methylene chloride	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	15	5.0
Toluene	250	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Trichloroethene	3.6J	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	10
Xylenes (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: TB-7/2.5-3

Sample No.: 68659 Job No.: B933 Fraction: VOC

Concentration Units: PPM (PPB)

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	Acetone	6.06	37
2.	unknown	25.49	23
3.			
4.			
5.			
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates, Inc.
1078 Taylorsville Road
Washington Crossing, PA 18907
Attention: Mr. A. Rana

Report Date: 7/14/92
Job No.: B933 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 2625A

VOLATILE ORGANICS

Parameter	Lab No. 68660 Client ID: Field Blank Units: ug/l	Detection Limit Units: ug/l
Benzene	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Ethyl benzene	ND	5.0
Methylene chloride	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	10
Xylenes (Total)	ND	5.0

ENVIROTECH RESEARCH, INC.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Sample Identification: FB

Sample No.: 68660 Job No.: B933 Fraction: VOC

Concentration Units: PPM PPB

	COMPOUND NAME	Retention Time	Estimated Conc.
1.	NO VOLATILE ORGANICS COMPOUNDS FOUND NH		
2.			
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ENVIROTECH RESEARCH, INC.

Vincent UHL Associates, Inc.
1078 Taylorsville Road
Washington Crossing, PA 18907
Attention: Mr. A. Rana

Report Date: 7/14/92
Job No.: B933 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 2114

QA SUMMARY - DUPLICATE and BLANK

VOLATILE ORGANICS - SOIL

Parameter	Sample Lab No. 68627SPK File ID: >MS627 70.8% Solid ug/kg (Dry Wt.)	Duplicate Lab No. 68627SPK File ID: >MSD27 70.8% Solid ug/kg (Dry Wt.)	6/30/92 File ID: >4B182 Lab Blank ug/kg[1]
Benzene	69	71	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Bromomethane	ND	ND	ND
Carbon tetrachloride	ND	ND	ND
Chlorobenzene	76	76	ND
Chloroethane	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND
Chloroform	ND	ND	ND
Chloromethane	ND	ND	ND
Dibromochloromethane	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,1-Dichloroethene	69	63	ND
trans-1,2-Dichloroethene	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND
Ethyl benzene	ND	ND	ND
Methylene chloride	7.0B	4.5JB	2.8J
1,1,2,2-Tetrachloroethane	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Toluene	71	69	ND
1,1,1-Trichloroethane	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND
Trichloroethene	73	74	ND
Trichlorofluoromethane	ND	ND	ND
Vinyl chloride	ND	ND	ND
Xylenes (Total)	ND	ND	ND

[1]Blank concentration based on a 5.0 gram sample.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates, Inc.
1078 Taylorsville Road
Washington Crossing, PA 18907
Attention: Mr. A. Rana

Report Date: 7/14/92
Job No.: B933 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 2114D

QA SUMMARY - BLANK - 7/6/92

VOLATILE ORGANICS - SOIL

Parameter	7/6/92 Lab Blank File ID: >4B188 Units: ug/kg[1]	Detection Limit Units: ug/kg
Benzene	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Ethyl benzene	ND	5.0
Methylene chloride	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	10
Xylenes (Total)	ND	5.0

[1]Blank concentration based on a 5.0 gram sample.

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates, Inc.
1078 Taylorsville Road
Washington Crossing, PA 18907
Attention: Mr. A. Rana

Report Date: 7/14/92
Job No.: B933 - Diamond East
N.J. Certified Lab No. 12543
QA Batch No. 2625

QA SUMMARY - DUPLICATE and BLANK

VOLATILE ORGANICS - WATER

Parameter	Sample Lab No. 68531SPK File ID: >MS531 Units: ug/l	Duplicate Lab No. 68531SPK File ID: >MSD31 Units: ug/l	6/24/92 Lab Blank File ID: >176B1 Units: ug/l
Benzene	54	56	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Bromomethane	ND	ND	ND
Carbon tetrachloride	ND	ND	ND
Chlorobenzene	56	55	ND
Chloroethane	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND
Chloroform	ND	ND	ND
Chloromethane	ND	ND	ND
Dibromochloromethane	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,1-Dichloroethene	59	57	ND
trans-1,2-Dichloroethene	2.1J	1.7J	ND
1,2-Dichloropropane	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND
Ethyl benzene	ND	ND	ND
Methylene chloride	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
Tetrachloroethene	16	14	ND
Toluene	56	53	ND
1,1,1-Trichloroethane	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND
Trichloroethene	53	57	ND
Trichlorofluoromethane	ND	ND	ND
Vinyl chloride	ND	ND	ND
Xylenes(Total)	ND	ND	ND

ENVIROTECH RESEARCH, INC.

Vincent UHL Associates, Inc.
1078 Taylorsville Road
Washington Crossing, PA 18907
Attention: Mr. A. Rana

Report Date: 7/14/92
Job No.: B933 - Diamond East
N.J. Certified Lab No. 12543
QA Batch 2625A

QA SUMMARY - BLANK - 6/25/92

VOLATILE ORGANICS - WATER

Parameter	6/25/92 Lab Blank File ID: >177B1 Units: ug/l	Detection Limit Units: ug/l
Benzene	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,2-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Ethyl benzene	ND	5.0
Methylene chloride	0.35J	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	10
Xylenes (Total)	ND	5.0

Vincent Uhl Associates, Inc.
NAME OF CLIENT (FOR REPORT AND BILLING)

1078 Taylorsville Rd.
ADDRESS

Washington Crossing PA 18977
CITY STATE ZIP

A. RANA
ATTENTION

215-321-2210
PHONE

CHAIN-OF-CUSTODY RECORD

ENVIROTECH JOB NO. JOB 13933

Diamond East labs
PROJECT NAME

ENVIROTECH RESEARCH, INC.
777 NEW DURHAM ROAD
EDISON, N.J. 08817

(908) 549-3900

DATE SMPLD.	TIME SMPLD.	SMPLD. BY	MATRIX	PRES.	NO. OF CONT.	SAMPLE LOCATION/DESCRIPTION	ANALYSIS REQUESTED	ENVIROTECH SAMPLE NUMBER
6/22/92	5PM	AAR	Soil	None	1	TB-7 2.0 to 2.5 ft bls	VOC + 15	68658
6/22/92	5PM	AAR	Soil	None	1	TB-7 2.5 to 3.0 ft bls	VOC + 15	68659
6/22/92	3:30	AAR	Aq.	Hydrochloric Acid	2	Field Blank	VOC + 15	68660

TOTAL NO. OF CONTAINERS: ~~3~~ 4
DH 6/23/92

SPECIAL INSTRUCTIONS:

1. RELINQUISHED BY:	DATE/TIME	1. RECEIVED BY:	3. RELINQUISHED BY:	DATE/TIME	3. RECEIVED BY:
A. Rana	6/22/91 - 7PM	6/22/91 Linda Dart 7pm	Linda Dart	6/23/91 - 8:24 AM LD 7AM	David Uhl 6/23/92 8:24
2. RELINQUISHED BY:	**DATE/TIME**	**2. RECEIVED BY:**	**4. RELINQUISHED BY:**	**DATE/TIME**	**4. RECEIVED BY:**
	-			-	

LABORATORY CHRONICLE

ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ 08817
(908) 549-3900

CLIENT: UHL

DATE SAMPLED: 6/22/92

MATRIX: Soil

DATE RECEIVED: 6/22/92

SAMPLE No.: 68658

JOB No.: B933

Analytic Parameter	Extraction Date/Time	Extractor's Initials	Analysis Date/Time	Analyst's Initials	QA Batch No.
VOA +15			6/30/92	CC	2114

LABORATORY CHRONICLE

ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ 08817
(908) 549-3900

CLIENT UHL

MATRIX Soil

SAMPLE No. 68659

DATE SAMPLED 6/22/92

DATE RECEIVED 6/22/92

JOB No. B933

Analytic Parameter	Extraction Date/Time	Extractor's Initials	Analysis Date/Time	Analyst's Initials	QA Batch No.
VOA +15			7/6/92	CC	2114

LABORATORY CHRONICLE

ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ 08817
(908) 549-3900

CLIENT UHL

MATRIX Water

SAMPLE No. 68660

DATE SAMPLED 6/22/92

DATE RECEIVED 6/22/92

JOB No. B933

Analytic Parameter	Extraction Date/Time	Extractor's Initials	Analysis Date/Time	Analyst's Initials	QA Batch No.
VOA +V			6/25/92	DG	2625

REFERENCE NO. 19

PROJECT NOTE **SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM**

To: Diamond Aerosol File **Date:** 2/17/00 **Page:** 1 of 1

From: Scott Snyder

Subject: Existing Analytical Data

The attachments to this note document sampling events and analyses conducted during the years 1982 - 1985. Due to their age, incompleteness, and the thoroughness of later ECRA investigations, they have been grouped together and only briefly summarized in the body of this report.

RECEIVED

APR 15 3 33 PM '82

NJ DEP
DIV WATER RESOURCES
MS&E

DIAMOND AEROSOL CORPORATION GLEN GARDNER, NEW JERSEY 08826 TELEPHONE 201 832-7128

file NPDES

April 13, 1982

Dept. of Environmental Protection
Division of Water Resources
Industrial Permits
P.O. Box CN-029
Trenton, New Jersey 08625

ATTN: Mr. Ramamurthy Pyarilal

Dear Mr. Pyarilal,

Enclosed is a copy of the laboratory report on samples of water taken from the tributary of Spruce Run Creek. I have not yet been able to find out a flow rate for this stream. Since it is rather small it seems to have escaped official attention.

If my further investigations do not uncover an official source for this flow data, I will endeavor to measure the flow rate myself. Please let me know if measurements done by myself would be acceptable for your purposes.

Sincerely,

DIAMOND AEROSOL CORPORATION

Ralph H. Helmrich
Senior Vice-President

RHH/daa

cc: Alfred Valencia
NJDEP
Div. of Water Resources
P.O. Box C-029
Trenton, New Jersey 08625

ATTACHMENT A, P. 1

N. V JERSEY LABORAT IES
222-226 EASTON AVENUE 201 249-0148
P O. BOX 748 NEW BRUNSWICK, N J. 08903

ANALYTICAL TESTING
SINCE 1939

Divisions:
NEW JERSEY DAIRY LABORATORIES
PHARMETICS LABORATORY

REPORT ON WATER SAMPLES

DIAMOND AEROSOL CORP.
RD #2
Glen Gardner, N.J. 08826

Att: R. Helmrich

DATE March 30, 1982 NO. 6393-6398

COPY

IDENTIFICATIONS:

Stream Sample

SAMPLES:

Received on:	Delivered by:	Refrigerated:	Taken by:	On:	Refrigerated:
3/25	Your Agent	No	Your Agent	3/25	No
In Glass Container:	**Sterilized by:**	**Thiosulfate Added:**	**At Site: ppm Chlorine**	**At Site: pH reading**	**At Site: Water Temp.**
Quart	Your Agent	No			

BACTERIAL DATA:

TOTAL AGAR PLATE COUNTS Colonies per ml.: 36°C. Incub.	20°C. Incub.	COLIFORMS in Five 10, 1 and 0.1 ml. Tubes: Presumptive Test: Tubes "POSITIVE"	Confirmed Test: Tubes "POSITIVE"	Equivalency, or "MPN per 100 ml."	Pertinent Bacterial Standards SATISFIED

CHEMICAL DATA

pH	7.1
B.O.D., ppm	5
C.O.D., ppm	12
Oil & Grease, ppm	<1
Total Organic Carbon, ppm	1
Petroleum Hydrocarbons, ppm	<1
Qualitative Test for M.B.A.S. (Synthetic Detergent), ppm	<0.01

< = Less than

Charles F. Molino

Charles F. Molino, Manager

BACTERIAL STANDARDS:

1. To be "satisfactory", five 10 ml. (thus 50 ml.) portions of properly representative samples of drinking waters and swimming pool waters must show the complete absence of coliforms, by the codes of both the U. S. Public Health Service and the N. J. State Department of Health.

2. Coliforms in waters from natural bathing places are reported as "Most Probable Number in 100 ml." The American Public Health Association classifies bathing areas whose samples show MPN values below 1000 as "suitable" for use; those between 1000 and 2400 as "acceptable, subject to further test"; and those above 2400 as "unsuitable".

NOTES:

1. We certify that our analyses of water samples are made in full conformance with the appropriate procedures specified in "Standard Methods for the Examination of Water", and are accurate to within the experimental errors of these techniques.

2. We certify that samples of water, taken by our representatives, have been prepared and transported to the laboratory in full conformance with the procedures prescribed in the SMEW manuals.

3. We do not certify to the authenticity of samples prepared by other than our own representatives. Such samples' identities are detailed only as reported to us.

ATTACHMENT A, p.2

JAN 10 1983

NEW JERSEY LABORATORIES

222-226 EASTON AVENUE 201: 249-0148
P. O. BOX 748 NEW BRUNSWICK, N. J. 08903

ANALYTICAL TESTING
SINCE 1939

Divisions:
NEW JERSEY DAIRY LABORATORIES
PHARMETICS LABORATORY

REPORT ON WATER SAMPLES

DIAMOND AEROSOL
Glen Gardner, N.J.

DATE Jan. 7, 1983 NO. 8805

COPY

IDENTIFICATIONS:

Sludge Sample from Tank Cleaning

SAMPLES:

Received on:	Delivered by:	Refrigerated:	Taken by:	On:	Refrigerated:
1/5/83	Your Agent	No	Your Agent	1/4/83	No
In Glass Container:	**Sterilized by:**	**Thiosulfate Added:**	**At Site: ppm Chlorine**	**At Site: pH reading**	**At Site: Water Temp.**
4 x 32 oz.	No	No			

BACTERIAL DATA:

TOTAL AGAR PLATE COUNTS Colonies per ml.: 35°C. Incub.	20°C. Incub.	COLIFORMS in Five 10, 1 and 0.1 ml. Tubes: Presumptive Test: Tubes "POSITIVE"	Confirmed Test: Tubes "POSITIVE"	Equivalency, or "MPN per 100 ml."	Pertinent Bacterial Standards SATISFIED

CHEMICAL DATA

		Max
Arsenic	0.27 ppm	5.0
Barium	0.08 ppm	100.0
Cadmium	0.05 ppm	1.0
Chromium	0.09 ppm	5.0
Lead	#0.05 ppm	5.0
Mercury	#0.002 ppm	0.2
Selenium	#0.01 ppm	1.0
Silver	0.02 ppm	5.0
Corrosivity	Passes (pH = 10.8)	
Reactivity	Passes	

= Less Than

ATTACHMENT B

Charles F. Molino

Charles F. Molino, Manager

BACTERIAL STANDARDS:

1. To be "satisfactory", five 10 ml. (thus 50 ml.) portions of properly representative samples of drinking waters and swimming pool waters must show the complete absence of coliforms, by the codes of both the U. S. Public Health Service and the N. J. State Department of Health.

2. Coliforms in waters from natural bathing places are reported as "Most Probable Number in 100 ml." The American Public Health Association classifies bathing areas whose samples show MPN values below 1000 as "suitable" for use; those between 1000 and 2400 as "acceptable, subject to further test"; and those above 2400

NOTES:

1. We certify that our analyses of water samples are made in full conformance with the appropriate procedures specified in "Standard Methods for the Examination of Water", and are accurate to within the experimental errors of these techniques.

2. We certify that samples of water, taken by our representatives, have been prepared and transported to the laboratory in full conformance with the procedures prescribed in the SMEW manuals.

3. We do not certify to the authenticity of samples prepared by other than our own representatives. Such samples' identities are detailed

PW-2 May 77 PRIORITY ANALYSIS 10 1 OF 2

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TABULATION OF ANALYTICAL DATA FROM PUBLIC WATER SUPPLY

Supply NON-PUBLIC WELLS County HUNTERDON

Municipality LEBANON TWP. Date Collected 3-9-83

Collected by Brian Kenner Memo # 83- Project # W-

BACTERIOLOGICAL ANALYSES: Coliform organisms determined by the membrane filter technique are reported in colonies per 100 ml. Chlorine residuals are reported in ppm.

Sample Number	Point of Collection	~~Coliform Organisms~~ ~~Fecal~~	~~Total~~	Chlorine Residual Free	Total
20459 *	FENNELLY - BOX 347 WOODGLEN RD. (BAR SINK)		10:45	0	0
20460	DIAMOND AEROSOL - RESIDENCE - (WASH SINK)		11:20	↓	↓
20461	BISCHOFF - WOODGLEN RD. (DOWN STAIRS SINK)		12:00	↓	↓
	(ALL SAMPLES RAW WATER)				

PHYSICAL – CHEMICAL ANALYSES: Determinations are in ppb except color, odor, turbidity, and pH. Figures in parentheses are from the N. J. Potable Water Standards and/or National Interim Primary Regulations.

Sample Number	20459	20460	20461	Sample Number			
Color (10)				Arsenic (0.05)			
Odor (III)				Barium (1.0)			
Turbidity (5)	U			Cadmium (0.010)			
pH				Chromium +6 (0.05)			
Alkalinity to pH 4				Copper (1.0)			
Nitrate as NO_3 (45)				Cyanide (0.20)			
Chloride (250)				Lead (0.05)			
Total Dis. Solids (500)				Mercury (0.002)			
ABS/LAS (0.5)				Selenium (0.01)			
Total Hardness (150)				Silver (0.05)			
Total Iron (0.3)				Phenol (0.001)			
Manganese (0.05)				Endrin (0.0002)			
Sodium (50)				Lindane (0.004)			
Sulphate (250)				Methoxychlor (0.1)			
Fluoride (2.0)				Toxaphene (0.005)			
Zinc (5.0)				2.4-D (0.1)			
				Silvex (0.01)			
V.O. SCAN	✓	✓	✓				
	2.5			BROMOFORM			
		2.0	7.0	1,1,1 trichloroethane			

RECEIVED MAR 21 1983 N.J. STATE DEPT. OF ENVIRONMENTAL PROTECTION BUREAU OF POTABLE WATER

REPORT SUBMITTED MAR 17 1983 NJDOH Environmental Chemistry Laboratory

Remarks FIELD BLANK # 22534

* SPRING SUPPLY

ATTACHMENT C, p. 1

SHEET 1 – BUREAU OF POTABLE WATER

LAT 3/21/83

PW-2 May 77 PRIORITY ANALYSIS 10 2 OF 2 VH

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TABULATION OF ANALYTICAL DATA FROM PUBLIC WATER SUPPLY

Supply NON-PUBLIC WELLS County HUNTERDON

Municipality LEBANON TWP. Date Collected 3-9-8[illegible]

Collected by Brian Keane Memo # 83- Project # W-

BACTERIOLOGICAL ANALYSES: Coliform organisms determined by the membrane filter technique are reported in colonies per 100 ml. Chlorine residuals are reported in ppm.

Sample Number	Point of Collection	~~Coliform Organisms~~ ~~Fecal~~	~~Total~~	Chlorine Residual Free	Total
20462	WITTMANN - ANTHONY RD. (KITCHEN SINK)		12:40PM	0	0
20463	BAUMGARTNER - ANTHONY RD.		1:15 PM		
20464	JACOBSON - ANTHONY RD.		1:45 PM		
	(ALL SAMPLES RAW WATER)				

PHYSICAL – CHEMICAL ANALYSES: Determinations are in ~~ppm~~ ppb except color, odor, turbidity, and pH. Figures in parentheses are from the N. J. Potable Water Standards and/or National Interim Primary Regulations.

Sample Number	20462	20463	20464	Sample Number			
Color (10)				Arsenic (0.05)			
Odor (III)				Barium (1.0)			
Turbidity (5)				Cadmium (0.010)			
pH				Chromium^{+6} (0.05)			
Alkalinity to pH 4				Copper (1.0)			
Nitrate as NO_3 (45)				Cyanide (0.20)			
Chloride (250)				Lead (0.05)			
Total Dis. Solids (500)				Mercury (0.002)			
ABS/LAS (0.5)				Selenium (0.01)			
Total Hardness (150)				Silver (0.05)			
Total Iron (0.3)				Phenol (0.001)			
Manganese (0.05)				Endrin (0.0002)			
Sodium (50)				Lindane (0.004)			
Sulphate (250)				Methoxychlor (0.1)			
Fluoride (2.0)				Toxaphene (0.005)			
Zinc (5.0)				2.4-D (0.1)			
	LAB accident			Silvex (0.01)			
V.O. SCAN	✓	✓ 2K	✓ 2K				

RECEIVED MAR 21 1983 N.J. STATE DEPT. OF ENVIRONMENTAL PROTECTION BUREAU OF POTABLE WATER

REPORT SUBMITTED MAR 17 1983 NJDOH Environmental Chemistry Laboratory

Remarks FIELD BLANK #22534

ATTACHMENT C, p. 2

SHEET 1 – BUREAU OF POTABLE WATER

(LW) 3/21/83

Telex: 83

Stablex-Reutter Inc.

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

"SOLUTIONS START HERE"

HWSP-09-0
CASE # 82-2-2
Diamond Heavo-f
File

March 11, 1983

NJDEP
Division of Waste Management
120 Rt. 156
Yardville, NJ 08620

Attention: Mr. Wayne Howitz

Reference: Test Report No. SR7857

This report covers the analysis of one (1) organic sample originally submitted to Stablex-Reutter, Inc. (S-R) on February 9, 1983. The following analysis was requested:

- Inorganics
  - pH
- Organics
  - Ketones

This Test Report is organized in the following manner:

- Analysis
- Analytical Results

I. Analysis

The sample was analyzed as described in the following publication:

- EPA - Test Methods for Evaluating Solid Waste - Physical/Chemical Methods - SW846 - 1980.
- EPA Method 624, Federal Register, Volume 44, No. 233, December 3, 1979 (Sample preparation, columns and GC/MS conditions for purgeable organic compounds)

ATTACHMENT D, P.1

Phone: 609-541-
Telex: 83

Stablex-Reutter Inc.

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

"SOLUTIONS START HERE"

II. Analytical Results

A. pH Determination

Sample and Designation

	SR7857 [redacted]
pH, units*	6.48

* Prior to analysis 1.0 gram of sample was leached with 50 ml deionized water.

B. Ketone Analysis

The sample was analyzed for ketones by comparing the mass spectra of the sample with the NBS library contained in the Finnegan GC/MS data system. This is an extensive library of over 31,000 organic compounds, including most of the commonly occurring ketones. The following ketones were found when the sample was analyzed under the preceding conditions.

Sample and Designation	Ketones found	Analytical Results
[redacted]	[redacted]	[redacted]

Quality Assurance Data

Constituent	SR7887 + Spike: Amount of Spike*	SR7887 + Spike: % Recovery
Methyl Ethyl Ketone	1.0 ug	55
Methyl Isobutyl Ketone	1.0 ug	66

* Sample analyzed simultaneously with the sample in this Test Report.

ATTACHMENT D, P.2

Stablex-Reutter Inc.

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

"SOLUTIONS START HERE"

Should you have any questions concerning the above analysis, please don't hesitate to contact me.

Respectfully submitted,

STABLEX-REUTTER, INC.

William J. Ziegler (CW)

William J. Ziegler
Laboratory Manager

WJZ/pd

Stablex-Reutter Inc.

"SOLUTIONS START HERE"

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

Phone: 609-541-
Telex: 83-

May 18, 1983

NJDEP
Division of Waste Management
120 Rte. 156
Yardville, NJ 08620

Attention: Wayne Howitz

Reference: Test Report No. SR8119

This report covers the analysis of three (3) sludge samples submitted to Stablex-Reutter, Inc. (S-R) on April 14, 1983. The following analyses were requested:

- Miscellaneous Analysis
  - Reactivity
  - pH
  - Flashpoint
- Inorganic Analysis
  - Metals (EP Extraction)

This report is organized in the following manner:

- Analysis
- Analytical Results

I. Analysis

The analyses were performed in accordance with the following publications:

- EPA Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846.
- Federal Register, Vol. 45, No. 98, May 19, 1980.
  - Characteristic of Reactivity. Section 261.23
  - Characteristic of EP Toxicity. Section 261.24
- ASTM D96, Standard Method of Test for Flash Point by Pensky-Martens Closed Cup Tester.

Stablex-Reutter Inc.
"SOLUTIONS START HERE"
Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101
Phone: 609-541-67
Telex: 8344

II. Analytical Results

The parameters analyzed and results are delineated in the following tables. The interlaboratory variability of the parameters analyzed in the type(s) of sample matrix submitted has not been substantiated by EPA and is probably at least ± 20%.

A. Miscellaneous Analysis

	SR8119-1 BV054	SR8119-2 BV055	SR8119-3 BV056
Flashpoint, °F, Closed Cup	97	<70,<70*	<70
pH, units	6.01	3.42	5.16,5.14

* Duplicate Analysis

Reactivity

The observations for Reactivity are as follows:

- The samples did not undergo violent changes under normal conditions.
- The samples did not react violently or form a potentially explosive mixture with water.
- The samples did not appear readily capable of detonation or exposive decomposition or reaction at standard temperature or pressure.
- The determination of cyanide and sulfide follows:

Sample and Designation

Parameter	SR8119-1 BV054	SR8119-2 BV055	SR8119-3 BV056
Sulfide, ug/g	<5	<5	<5
Cyanide, ug/g	<10	<10	<10

ATTACHMENT E 0.2

Stablex-L.. ..tter Inc.
Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101
"SOLUTIONS START HERE"

B. Inorganic Analysis

EPA-EP Results

Sample and Designation

Constituent	SR8119-1 BV054	SR8119-2 BV055	SR8119-3 BV056	EP Toxicity Limits
Arsenic, total	<0.05	<0.05	<0.05	5.0
Barium, total	<0.1	<0.1	<0.1	100.0
Cadmium, total	<0.01	<0.01	<0.01	1.0
Chromium, total	<0.05	<0.05	<0.05	5.0
Lead, total	<0.05	<0.05	<0.05	5.0
Mercury, total	<0.002	0.013	0.018	0.2
Selenium, total	<0.01	<0.01	<0.01	1.0
Nickel, total	<0.05	<0.05	<0.05	---
Silver, total	<0.05	<0.05	<0.05	5.0

Above results are in milligrams constituent per liter of EP Extract (ppm).

Quality Assurance Data

Parameter	SR8119-1 Duplicate	SR8119-3 + Spike: Amount of Spike, ppm	SR8119-3 + Spike: % Recovery
Arsenic	<0.05	1.0	120
Barium	<0.1	1.0	83
Cadmium	<0.01	1.0	104
Chromium	<0.05	1.0	98
Lead	<0.05	1.0	93
Mercury	---	0.1	95*
Selenium	<0.01	1.0	115
Silver	<0.05	1.0	101
Nickel	<0.05	1.0	78

* This spike was performed on sample no. SR8102, analyzed simultaneously with the samples in this Test Report.

ATTACHMENT E. p.3

Stablex-Reutter Inc.

SOLUTIONS START HERE"

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

Phone: 609-541-67
Telex: 8344

If you have any questions concerning the above analysis, please don't hesitate to contact me.

Respectfully submitted,

STABLEX-REUTTER, INC.

William J. Ziegler
Laboratory Manager

WJZ/pd

ATTACHMENT 2.4

Stanley Testing Inc.

LABORATORY NOTEBOOK ACCOUNTABILITY RECORD

ANALYSIS	SAMPLE NO. (S-R)	OSW DESIGNATION	NOTEBOOK NUMBER	PAGE(S)	DATE	ANALYST
Oil - grease	SR8053	BV049A	1207	36	4/13	[illegible]
EPA - EP			1175	28	4/6	KB
digestions			1175	24	4/7	KB
As, Ba, Cd, Cr, Pb, Se, Ag, Ni			EP R, Task Field (ICP)	EP H	4/8	MN
Hg			1209	6	4/8	MM
Ketone prep			1202	1220	[illegible]	[illegible]
Ketone analysis			1202	1220	[illegible]	[illegible]
PCB prep			1208	12	4/9	D.D.
PCB analysis			1208	14,17	4/6-4/7	D.D.
Pesticide prep			1174	73	4/10	LC
Pesticide analysis			1208	28,32	4/20	D.D.
Herbicide prep/analysis			1202	1220	[illegible]	[illegible]
Herbicide analysis			1202	1220	[illegible]	[illegible]
AE prep			1174	73	4/11	LC
AE analysis			1202	1220	4/13	[illegible]
BN prep			1174	73	4/11	LC
BN analysis	✓	✓	1202	1220	4/13	[illegible]

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF HAZARDOUS WASTE - ENFORCEMENT

NO. _____

RECEIPT FOR SAMPLES

HW/EF N.R.

CASE NAME

LOCATION

NAME OF PERSON/COMPANY WHOM SAMPLE IS OBTAINED

ADDRESS

ITEM NR	QUANTITY	DESCRIPTION OF SAMPLES
1	1	A brown glass jar (950 ml) containing a soil sample assigned DEP sample number BV049A.
2	1	A brown glass jar (950 ml) containing a soil sample assigned DEP sample number BV050A.
3	1	A brown glass jar (950 ml) containing a soil sample assigned DEP sample number BV051A.
4	1	A brown glass jar (950 ml) containing a soil sample assigned DEP sample number BV052A.
5	1	A brown glass jar (950 ml) containing a soil sample assigned DEP sample number BV053A.

CHAIN OF CUSTODY

ITEM NR	DATE	TIME	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHAIN OF CUSTODY
1, 2, 3, 4, 5	3/17/83	1610 hrs.	PRINT NAME: Bruce Venner SIGNATURE: Bruce Venner	PRINT NAME: WAYNE HOWITZ SIGNATURE: Wayne Howitz	
1	3/29/83	1355	PRINT NAME: WAYNE HOWITZ SIGNATURE: Wayne Howitz	PRINT NAME: Catherine M. Ward SIGNATURE: Catherine M. Ward	analysis
BV 049A	4/4/83		PRINT NAME: Catherine M. Ward SIGNATURE: Catherine M. Ward	PRINT NAME: Debby Duckinfield SIGNATURE: Debby Duckinfield	analysis
050A			PRINT NAME: SIGNATURE:	PRINT NAME: SIGNATURE:	ATTACHMENT E.0.6

CHAIN OF CUSTODY (Continued)

ITEM NR	DATE	RELINQUISHED BY (TYPED NAME, GRADE AND BRANCH / SIGNATURE)	RECEIVED BY (TYPED NAME, GRADE AND BRANCH / SIGNATURE)	PURPOSE OF CHANGE OF CUSTO
BV 049A	4/6/83	Debora Duckinfield	James R. Johnson	analysis
BV 049A	4/6/83	James R. Johnson	Kenneth Bond	analysis
BV 049A	4/8/83	Kenneth Bond	Marian Murphy	analysis
BV 049A	4/11/83	Marian Murphy	Lee Cramer	analysis
BV 049A	4/13/83	Lee Cramer	Luis de Andino	analysis
BV 049A	4/22/83	Luis de Andino	Catherine H. Ward	storage

ATTACHMENT E, p.7

Stablex-Reutter Inc.

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

"SOLUTIONS START HERE"

82-2-

March 14, 1983

NJDEP
Division of Waste Management
120 Rt. 156
Yardville, NJ 08620

Attention: Mr. Wayne Howitz

Reference: Test Report No. SR7857A

This report covers the analysis of one (1) organic sample origina submitted to Stablex-Reutter, Inc. (S-R) on February 9, 1983. The sample designation for this sample was [redacted] The following analy was requested:

- Organics
  - Acid Extractable Organics
  - Base/Neutral Extractable Organics
  - Volatile Organic Hydrocarbons
  - Polychlorinated Biphenyls

This Test Report is organized in the following manner for ea analysis:

- Sample Preparation and Analysis
- Analytical Results

I. Polychlorinated Biphenyls

A. Sample Preparation and Analysis

A known weight (10.00g) of sample is soxhlet-extracted w 70.0 milliliters of methylene chloride for three hours. resulting solution is then evaporated on a water bath approximately 5.0 milliliters, 50.0 milliliters pesticide-grade hexane are added, and the solution is t evaporated on the water bath to a final volume of 1(milliliters. An aliquot of this solution is analyzed electron-capture gas chromatography under the follow: conditions:

ATTACHMENT F D.1

Stablex-Reutter Inc.

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

"SOLUTIONS START HERE"

- Detector: Pulse-linearized nickel 63 electron-captur detector.
- Column: A glass column 8 feet long by 4 millimeter (internal diameter) packed with 10% SP-2100 on 100/12 mesh Supelcoport Column temperature was maintained at 240°C throughout the analysis. Column was designed for "off-column" injection.
- Flow Rate: 30 + 40 milliliters per minute of 5% Methane in Argon.

B. Analytical Results

Polychlorinated Biphenyls

Constituent	SR7857A [redacted]
Polychlorinated Biphenyls as Arochlor 1254	<1.0 ug/g

Quality Assurance Data

Constituent	Sample No. SR7887* + Spike: Amount of Spike	% Recover
Polyclorinated Biphenyls as Arochlor 1242	19.6 ug/g	134

* Sample analyzed simultaneously with the sample in this Test Report.

Phone: 60
Tel

Stablex-Reutter Inc.

"SOLUTIONS START HERE"

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

II. Acid Extractable and Base/Neutral Extractable Organics

A. Sample Preparation and Analysis

A known weight of sample (10.00g) is soxhlet-extracted wit
70.0 milliliters of methylene chloride for three hours. Th
resulting solution is then evaporated on a water bath to
final volume of 1.0 milliliters and analyzed by GC/MS. Th
analysis was performed in accordance with the followin
publication:

- EPA Method 625, Federal Register, Volume 44, No. 233, December 3, 1979.

B. Analytical Results

Acid Extractable Organics (Method 625 by GC/MS)

Constituent	SR7857A [redacted]
[redacted]	[redacted]
2-Nitrophenol	<1.0
4-Nitrophenol	<1.0
2,4-Dinitrophenol	<1.0
2,6-Dinitro-o-cresol	<1.0
Pentachlorophenol	<1.0
4-Chloro-3-Methyl-Phenol	<1.0
2-Chlorophenol	<1.0
2,4-Dichlorophenol	<1.0
2,4,6-Trichlorophenol	<1.0
2,4-Dimethylphenol	<1.0

Results are expressed in micrograms of constituent pe
milliliter of sample (ppm).

Stablex-Reutter Inc.

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

"SOLUTIONS START HERE"

Acid Extractable Organics (Method 625 by GC/MS)

Quality Assurance Data

SR7867-4 + Spike*

Constituent	Amount of Spike	% Recovery
Phenol	109	65
2-Nitrophenol	55	46
4-Nitrophenol	90	57
2,4-Dinitrophenol	114	34
2,6-Dinitro-o-cresol	80	35
Pentachlorophenol	60	46
4-Chloro-3-Methyl-Phenol	54	36
2-Chlorophenol	55	60
2,4-Dichlorophenol	63	37
2,4,6-Trichlorophenol	60	13
2,4-Dimethylphenol	93	

Results are expressed in micrograms of constituent per milliliter of sample (ppm).

* Sample analyzed simultaneously with the sample in this Test Report.

2. Base/Neutral Extractable Organics (Method 625 by GC/MS)

Constituent	SR7857A [redacted]
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<1.0
Hexachloroethane	<1.0
Hexachlorobutadiene	<1.0
Hexachlorobenzene	<1.0
1,2,4-Trichlorobenzene	<1.0
bis (2-Chloroethoxy) methane	<1.0
Naphthalene	<1.0
2-Chloronaphthalene	<1.0
Isophorone	<1.0
Nitrobenzene	<1.0
2,4-Dinitrotoluene	<1.0
2,6-Dinitrotoluene	<1.0
4-Bromophenyl phenyl ether	<1.0
bis (2-Ethylhexyl) phthalate	<1.0
Di-n-octyl phthalate	<1.0
Dimethyl phthalate	<1.0
Diethyl phthalate	[redacted]
Di-n-butyl phthalate	<1.0
Acenaphthylene	<1.0
Acenaphthene	<1.0
Butyl benzyl phthalate	<1.0
Fluorene	<1.0
Fluoranthene	<1.0
Chrysene	<1.0
Pyrene	<1.0
Phenanthracene	<1.0
Anthracene	<1.0
Benzo(a)anthracene	<1.0
Benzo(b)fluoranthene	<1.0
Benzo(k)fluoranthene	<1.0
Benzo(a)pyrene	<1.0
Indano(1,2,3-c,d)pyrene	<1.0
Dibenzo(a,h)anthracene	<1.0
Benzo(g,h,i)perylene	<1.0
4-Chlorophenyl-phenyl ether	<1.0
3,3'-Dichlorobenzidine	<1.0
Benzidine	<1.0
bis(2-Chloroethyl)ether	<1.0
1,2-Diphenylhydrazine	<1.0
Hexachlorocyclopentadiene	<1.0
N-Nitrosodiphenyl amine	<1.0
N-Nitrosodimethyl amine	<1.0
N-Nitrosodi-n-propylamine	<1.0
bis(2-Chloroisopropyl)ether	<1.0

* All results are reported in micrograms of constituent per milliliter of sample.

Stablex-Leutter Inc.

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

"SOLUTIONS START HERE"

Base/Neutral Extractable Organics (Method 625 by GC/MS)

Quality Assurance Data

SR7867-4 + Spike*

Constituent	Amount of Spike	% Recovery
1,3-Dichlorobenzene	54	95
1,4-Dichlorobenzene	81	62
Hexachlorobenzene	12	86
Naphthalene	21	72
2-Chloronapthalene	17	47
Isophorone	48	65
2,4-Dinitrotoluene	92	4
bis (2-Ethylhexyl) phthalate	102	71
Di-n-butyl phthalate	76	42
Butyl benzyl phthalate	88	55
Fluorene	28	58
Fluoranthene	13	49
Pyrene	61	66
Anthracene	9.5	11
Benzo(b)fluoranthene	9.5	25
Benzo(a)pyrene	2.2	109
Dibenzo(a,h)anthracene	3.8	55
bis(2-Chloroisopropyl)ether	53	61

Results are expressed in micrograms of constituent per milliliter of sample (ppm).

* Sample analyzed simultaneously with the sample in this Test Report.

ATTACHMENT F, P.6

Stablex-Keutter Inc.

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

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Purgeable Organic Compounds

A. Sample Preparation and Analysis

A known weight of sample is prepared for purge and trap analysis in accordance with the following publication:

- EPA Method 624, Federal Register, Volume 44, No. 233, December 3, 1979.

Chromatographic analysis is then performed using gas chromatography/Mass spectrometry.

B. Analytical Results

Purgeable Organics Compounds (Method 624 by GC/MS)

Constituent	SR7857A [redacted]
Acrolein	<1.0
Acrylonitrile	<1.0
Chloromethane	<1.0
Bromomethane	<1.0
Vinyl chloride	<1.0
Chloroethane	<1.0
Methylene chloride	<1.0
Trichlorofluoromethane	<1.0
1,1-Dichloroethylene	<1.0
1,1-Dichloroethane	<1.0
trans-1,2-Dichloroethylene	<1.0
Chloroform	<1.0
1,2-Dichloroethane	<1.0
1,1,1-Trichloroethane	<1.0
Carbon tetrachloride	<1.0
Bromodichloromethane	<1.0
1,2-Dichloropropane	<1.0
trans-1,3-Dichloropropene	<1.0
Trichloroethylene	[redacted]
Dibromochloromethane	<1.0
Benzene	<1.0
1,1,2-Trichloroethane	<1.0
cis-1,3-Dichloropropene	<1.0
2-Chloroethylvinyl ether	<1.0
Bromoform	<1.0
1,1,2,2-tetrachloroethane	<1.0
Tetrachloroethylene	<1.0
Toluene	[redacted]
Chlorobenzene	<1.0
Ethyl Benzene	<1.0

All results are reported in milligrams of constituent per liter of sample.

Stablex-Reutter Inc.

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

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Purgeable Organic Compounds (Method 624 by GC/MS)

Quality Assurance Data

SR7900-1 + Spike*

Constituent	Amount of Spike, ppb	% Recovery
Bromomethane	100	106
Vinyl chloride	100	123
Chloroethane	100	85
Methylene chloride	100	109
1,1-Dichloroethylene	100	83
1,1-Dichloroethane	100	105
trans-1,2-Dichloroethylene	100	63
Chloroform	100	116
1,2-Dichloroethane	100	84
1,1,1-Trichloroethane	100	93
Carbon tetrachloride	100	120
Bromodichloromethane	100	84
1,2-Dichloropropane	100	98
trans-1,3-Dichloropropene	100	65
Trichloroethylene	100	101
Dibromochloromethane	100	91
Benzene	100	77
1,1,2-Trichloroethane	100	102
cis-1,3-Dichloropropene	100	71
2-Chloroethylvinyl ether	100	131
Bromoform	100	62
1,1,2,2-tetrachloroethane	100	68
Tetrachloroethylene	100	120
Toluene	100	105
Chlorobenzene	100	149
Ethyl Benzene	100	107

* Sample analyzed simultaneously with the sample in this test Report.

If you have any questions concerning the above analysis, please don' hesitate to contact me.

Respectfully submitted,

STABLEX-REUTTER, INC.

William J. Ziegler (CW)

William J. Ziegler
Laboratory Manager

pd

ATTACHMENT F p. 8

Stablex-Reutter Inc.

SOLUTIONS START HERE"

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

Phone: 609-541-67
Telex: 8.344

May 6, 1983

NJDEP
Division of Waste Management
120 Rt. 156
Yardville, NJ 08620

Attention: Mr. Wayne Howitz

Reference: Test Report No. SR8053

This report covers the analysis of one (1) soil sample submitted to Stablex-Reutter, Inc. (S-R) on March 29, 1983. The following analyses were requested:

- Organic Analysis
  - Acid Extractables Organics
  - Base/Neutral Extractable Organics
  - Purgeable Organics and Ketones
  - Pesticides and Polychlorinated Biphenyls
- Miscellaneous Analysis
  - Oil and Grease
- Inorganic Analysis
  - Metals (EPA - EP)

The report is organized in the following manner:

- Sample Preparation and Analysis
- Analytical Results

I. Sample Preparation and Analysis

With the exception of PCBs, the samples were prepared and analyzed as described in the following publications:

- Methods 624 and 625 Federal Register, Vol. 44 No. 233, December 3, 1979. (Columns and GC/MS conditions for acid extractables, base/neutrals and purgeable organics).
- EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW846, July, 1981, Revision B (Oil and Grease analysis, preparation steps for acid extractables, base neutrals and purgeable organics).

ATTACHMENT G. P.1

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Camden, New Jersey 08101

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- Federal Register, May 19, 1980 edition. (Characteristic of EP Toxicity)

- EPA - Manual of Analytical Methods for the analysis of Pesticides in Human and Environmental Samples, June 1980. (Column and GC conditions for Pesticides and Polychlorinated Biphenyls)

Isolation of Polychlorinated Biphenyls

A known weight (20.00 gms) of a homogeneous mixture containing equal parts by weight of sample and dried anhydrous sodium sulfate was extracted with hexane in a soxhlet extraction apparatus. This extract was placed on a column of activated florisil as described in Standard Methods for the Examination of Water and Wastewater, 15th edition, Section 509A. The column was eluted with 250 mls of petroleum ether and this eluate was concentrated to 10.0 mls on a hot water bath. An aliquot of this solution is analyzed by electron-capture gas Chromatography with internal standards being used to monitor the percent recovery.

II. Analytical Results

The parameters analyzed and results are delineated in the following tables. The interlaboratory variability of the parameters analyzed in the type of sample matrices submitted has not been established by EPA and is probably at least ± 20%.

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Telex: 834

Stablex-Reutter Inc.

Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

"SOLUTIONS START HERE"

Acid Extractable Organics (Method 625 by GC/MS)

Sample and Designation

Constituent	SR8053 BV049A
Phenol	<1.0
2-Nitrophenol	<1.0
4-Nitrophenol	<1.0
2,4-Dinitrophenol	<1.0
2,6-Dinitro-o-cresol	<1.0
Pentachlorophenol	<1.0
4-Chloro-3-Methyl-Phenol	<1.0
2-Chlorophenol	<1.0
2,4-Dichlorophenol	<1.0
2,4,6-Trichlorophenol	<1.0
2,4-Dimethylphenol	<1.0

Results are expressed in micrograms of constituent per gram of sample (ppm).

Acid Extractable Organics (Method 625 by GC/MS)

Quality Assurance Data

Constituent	SR8053 + Spike: Amount of Spike	SR8053 + Spike: % Recovery
Phenol	39	38
2-Nitrophenol	55	42
4-Nitrophenol	53	34
2,4-Dinitrophenol	98	57
2,6-Dinitro-o-cresol	73	80
Pentachlorophenol	48	27
4-Chloro-3-Methyl-Phenol	49	51
2-Chlorophenol	55	89
2,4-Dichlorophenol	63	67
2,4,6-Trichlorophenol	56	41
2,4-Dimethylphenol	53	34

Spike amounts are expressed in micrograms of constituent per gram of sample (ppm).

ATTACHMENT 6-2

Stablex-R... ter Inc.

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Ninth and Cooper Streets
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Camden, New Jersey 08101

Purgeable Organic Compounds (Method 624) and Ketones

Constituent	Sample and Designation SR8053 BV049A
Acrolein	<1.0
Acrylonitrile	<1.0
Chloromethane	<1.0
Bromomethane	<1.0
Vinyl chloride	<1.0
Chloroethane	<1.0
Methylene chloride	<1.0
Trichlorofluoromethane	<1.0
1,1-Dichloroethylene	<1.0
1,1-Dichloroethane	<1.0
trans-1,2-Dichloroethylene	<1.0
Chloroform	7.6
1,2-Dichloroethane	<1.0
1,1,1-Trichloroethane	12
Carbon tetrachloride	<1.0
Bromodichloromethane	<1.0
1,2-Dichloropropane	<1.0
trans-1,3-Dichloropropene	<1.0
Trichloroethylene	15
Dibromochloromethane	<1.0
Benzene	6.0
1,1,2-Trichloroethane	<1.0
cis-1,3-Dichloropropene	<1.0
2-Chloroethylvinyl ether	<1.0
Bromoform	<1.0
1,1,2,2-tetrachloroethane	180
Tetrachloroethylene	<1.0
Toluene	220
Chlorobenzene	<1.0
Ethyl Benzene	21
Xylenes	28
Methyl Ethyl Ketone	<1.0
Methyl Isobutyl Ketone	<1.0

Results are expressed in micrograms of constituent per gram of sample (ppm).

ATTACHMENT 6 D.4

Stablex-Rutter Inc.
Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

"SOLUTIONS START HERE"

Base Neutral Extractable Organics (Method 625 by GC/MS)

Constituent	Sample and Designation SR8053 BV049A
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<1.0
Hexachloroethane	<1.0
Hexachlorobutadiene	<1.0
Hexachlorobenzene	<1.0
1,2,4-Trichlorobenzene	<1.0
bis (2-Chloroethoxy) methane	<1.0
Naphthalene	<1.0
2-Chloronaphthalene	<1.0
Isophorone	<1.0
Nitrobenzene	<1.0
2,4-Dinitrotoluene	<1.0
2,6-Dinitrotoluene	<1.0
4-Bromophenyl phenyl ether	<1.0
bis (2-Ethylhexyl) phthalate	<1.0
Di-n-octyl phthalate	<1.0
Dimethyl phthalate	<1.0
Diethyl phthalate	<1.0
Di-n-butyl phthalate	<1.0
Acenaphthylene	<1.0
Acenaphthene	<1.0
Butyl benzyl phthalate	<1.0
Fluorene	<1.0
Fluoranthene	<1.0
Chrysene	<1.0
Pyrene	<1.0
Phenanthracene	<1.0
Anthracene	<1.0
Benzo(a)anthracene	<1.0
Benzo(b)fluoranthene	<1.0
Benzo(k)fluoranthene	<1.0
Benzo(a)pyrene	<1.0
Indeno(1,2,3-c,d)pyrene	<1.0
Dibenzo(a,h)anthracene	<1.0
Benzo(g,h,i)perylene	<1.0
4-Chlorophenyl-phenyl ether	<1.0
3,3'-Dichlorobenzidine	<1.0
Benzidine	<1.0
bis(2-Chloroethyl)ether	<1.0
1,2-Diphenylhydrazine	<1.0
Hexachlorocyclopentadiene	<1.0
N-Nitrosodiphenyl amine	<1.0
N-Nitrosodimethyl amine	<1.0
N-Nitrosodi-n-propylamine	<1.0
bis(2-Chloroisopropyl)ether	<1.0

Results are reported in micrograms of constituent per gram of sample (ppm).

Stablex-Reutter Inc.

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Base/Neutral Extractable Organics (Method 625 by GC/MS)

Quality Assurance Data

Constituent	SR8053 + Spike Amount of Spike	% Recovery
1,3-Dichlorobenzene	54	35
1,4-Dichlorobenzene	76	65
Hexachlorobenzene	12	42
Naphthalene	21	76
2-Chloronaphthalene	17	35
Isophorone	45	96
2,4-Dinitrotoluene	72	115
bis (2-Ethylhexyl) phthalate	87	78
Di-n-butyl phthalate	68	76
Acenaphthylene	27	89
Butyl benzyl phthalate	78	65
Fluorene	28	146
Fluoranthene	13	162
Pyrene	50	90
Anthracene	9.5	63
Benzo(b)fluoranthene	9.5	53
bis(2-Chloroethyl)ether	43	100
bis(2-Chloroisopropyl)ether	50	76

Spike amounts are expressed in micrograms of constituent per gram of sample (ppm).

Stablex-Reutter Inc.

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Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

Phone: 609-541-6
Telex: 834

Pesticidal Compounds and Polychlorinated Biphenyls

Contaminant*	Sample and Designation SR8053 BV049A
Aldrin	<1.0 ug/g
alpha BHC	<1.0 ug/g
beta BHC	<1.0 ug/g
delta BHC	<1.0 ug/g
gamma BHC	<1.0 ug/g
Chlordane	<1.0 ug/g
Dieldrin	<1.0 ug/g
p,p'-DDE	<1.0 ug/g
p,p'-DDD	<1.0 ug/g
p,p'-DDT	<1.0 ug/g
Endosulfan I	<1.0 ug/g
Endosulfan II	<1.0 ug/g
Endosulfan Sulfate	<1.0 ug/g
Endrin	<1.0 ug/g
Endrin Aldehyde	<1.0 ug/g
Heptachlor	<1.0 ug/g
Heptachlor Epoxide	<1.0 ug/g
Toxaphene	<1.0 ug/g
PCBs, as Arochlor 1260	<1.0 ug/g

ATTACHMENT G.D.7

Stablex-Reutter Inc.

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Ninth and Cooper Streets
P.O. Box 499
Camden, New Jersey 08101

Phone: 609-541-67
Telex: 8344

Pesticidal Compounds and Polychlorinated Biphenyls

Quality Assurance Data

SR8053 + Spike

Constituent	Amount of Spike, ug/g	% Recovery
Aldrin	6.87	65.5
gamma BHC	6.80	94.8
p,p'-DDD	6.01	94.3
p,p'-DDT	5.99	123
Endrin	7.44	97.6
Heptachlor Epoxide	5.78	96.8
Arochlor 1254	5.0	88%*

* Spike performed on SR8021-3.

ATTACHMENT G P.7

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Stablex-Reutter Inc.

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P.O. Box 499
Camden, New Jersey 08101

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Miscellaneous Analysis

	Sample and Designation
	SR8053 BV049A
Oil and Grease, %	0.13,0.12*

* Duplicate Analysis

EPA - EP Analysis

Parameter	Sample and Designation SR8053 BV049A	EP Toxicity Limit
Arsenic, total	<0.5	5.0
Barium, total	<0.1	100.0
Cadmium, total	<0.02	1.0
Chromium, total	<0.05	5.0
Lead, total	<0.1	5.0
Mercury, total	<0.002	0.2
Selenium, total	<0.5	1.0
Silver, total	<0.05	5.0
Nickel, total	<0.05	---

Above results are reported in milligrams of constituent per liter of EP extract (ppm).

	SR8053, Duplicate	Sample + Spike* Amount of Spike	% Recovery
Arsenic	<0.5	1.0	70
Barium	<0.1	1.0	93
Cadmium	<0.02	1.0	90
Chromium	<0.05	1.0	97
Lead	<0.1	1.0	92
Mercury	---	0.1	88
Selenium	<0.5	1.0	98
Silver	<0.05	1.0	82
Nickel	<0.05	---	--

* Sample analyzed simultaneously with the sample in this Test Report and can be found in Test Report Nos. SR8046, SR8054 and SR8057.

Phone: 609-541-67
Telex: 8344

Stablex-Reutter Inc.

Ninth and Cooper Streets
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Camden, New Jersey 08101

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If you have any questions concerning the above analysis, please don't hesitate to contact me.

Respectfully submitted,

STABLEX-REUTTER, INC.

William J Ziegler, III

William J. Ziegler
Laboratory Manager

WJZ/pd

File

NEW JERSEY LABORATORIES

222-226 EASTON AVENUE
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NEW BRUNSWICK, NEW JERSEY 08903
TELEPHONE: (201) 249-0148

ANALYTICAL TESTING
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State of New Jersey
Dept. Environmental Protection
Division Water Resources

Divisions:
NEW JERSEY DAIRY LABORATORIES
PHARMETICS LABORATORY

Nov. 8, 1983

Mr. R. H. Helmrich
DIAMOND AEROSOL CORP.
Anthony & Woodglen Road
Glen Gardner, N.J. 08826

1983 QUALITY ASSURANCE REPORT - NPDES #NJ0034894

Part I - Precision - s(applicable to section 5d of Permit)

pH

Date	X_1	X_2	$d = X_1 - X_2$	d^2
2/10/83	6.6	6.6	0	0
4/27/83	6.7	6.7	0	0
7/27/83	6.9	6.8	0	0
10/24/83	6.9	6.9	0	0

s = 0

C.O.D., ppm

Date	X_1	X_2	$d = X_1 - X_2$	d^2
2/10/83	<1.0	<1.0	0	0
4/27/83	6.0	4.0	2	4
7/27/83	5.0	5.0	0	0
10/26/83	5.0	5.0	0	0

Total.....4 = Σd^2
number of duplicates.....4 = k

$$s = \sqrt{\frac{\Sigma d^2}{2k}} = \sqrt{\frac{4}{2 \times 4}} = \sqrt{\frac{4}{8}} = \sqrt{0.5} = 0.71$$

PETROLEUM HYDROCARBONS, ppm

Date	X_1	X_2	$d = X_1 - X_2$	d^2
2/10/83	<1.0	<1.0	0	0
4/27/83	<1.0	<1.0	0	0
7/27/83	<1.0	<1.0	0	0
10/24/83	<1.0	<1.0	0	0

s = 0

ATTACHMENT H 2.1

TOTAL SUSPENDED SOLIDS, ppm

Date	X_1	X_2	$d = X_1 - X_2$	d^2
2/10/83	12	12	0	0
4/27/83	3.0	3.0	0	0
7/27/83	10	11	1	1
10/24/83	4.0	4.0	0	0

Total.....1 = Σd^2

Number of duplicates.....4 = k

$$s = \sqrt{\frac{\Sigma d^2}{2k}} = \sqrt{\frac{1}{2 \times 4}} = \sqrt{\frac{1}{8}} = \sqrt{0.13} = 0.35$$

Part II - Spike Samples (Section 6b and 6c of Permit)
Not applicable for pH or Total Suspended Solids

C.O.D., ppm

Date	Initial Value before spike (I)	Amt. of spike added to sample (A)	Analytical Result (F)	% Recovery (R) R = 100 (F-I)/A
2/10/83	<1.0	100	96	96
4/27/83	5.0	100	105	100
7/27/83	5.0	100	104.2	99
10/24/83	5.0	100	103.6	99

mean % Recovery - $\bar{R} = \frac{\Sigma R}{k} = \frac{394}{4} = 98.5\%$

Standard Deviation from mean % Recovery = $s = \sqrt{\frac{\Sigma (R-\bar{R})^2}{k-1}}$

where
$\bar{R}$ = mean % Recovery = 98.5%
R = individual recovery values - 96, 100, 99 and 99%
k = number of data points = 4

$$s = \sqrt{\frac{9.0}{4-1}} = \sqrt{\frac{9.0}{3}} = \sqrt{3} = 1.7$$

PETROLEUM HYDROCARBONS, ppm

Date	Initial Value before spike (I)	Amt. of spike* added to sample (A)	Analytical Result (F)	% Recovery (R) R = 100 (F-I)/A
2/10/83	<1.0	100	98.6	98.6
4/27/83	<1.0	100	99.2	99.2
7/27/83	<1.0	100	98.8	98.8
10/24/83	<1.0	100	99.2	99.2

mean % Recovery - $\bar{R} = \frac{\Sigma R}{k} = \frac{395.8}{4} = 98.95\%$

Standard Deviation from mean % Recovery - $s = \sqrt{\frac{\Sigma (R-\bar{R})^2}{k-1}}$

where
$\bar{R}$ = mean % Recovery = 98.95%
R = individual recovery values = 98.6, 99.2, 98.8 & 99.2
k = number of data points = 4

$$s = \sqrt{\frac{0.27}{4-1}} = \sqrt{\frac{0.27}{3}} = \sqrt{0.09} = 0.3$$

* #2 fuel oil used as spiking material.

ATTACHMENT H 0.3.

Part III - Accuracy Data - External Q.C. Samples
(applicable to section 5d addPermit)

Date	QC Sample description	pH Actual Value (A)	Analytical Result (F)	% Recovery (R) R = 100 F/A
1/10/83	EPA Sample WP 882			
	Conc. #1	5.7	5.81	101.9%
	Conc. #2	7.8	7.82	100.2%

mean % Recovery - $\bar{R} = \frac{\Sigma R}{k} = \frac{202.1}{2} = 101.05$

Standard Deviation from mean % Recovery - $s = \sqrt{\frac{\Sigma(R-\bar{R})^2}{k-1}}$

where

$\bar{R}$ = mean % Recovery = 101.05%
R = individual recovery values - 101.9 and 100.2%
k = number of data points = 2

$$s = \sqrt{\frac{\Sigma(R-\bar{R})^2}{k-1}} = \sqrt{\frac{1.44}{1}} = \sqrt{1.44} = 1.2$$

TOTAL SUSPENDED SOLIDS, ppm

Date	QC Sample description	Actual Value (A)	Analytical Result (F)	% Recovery (R) R = 100 F/A
1/10/83	EPA Sample SP 1080 Non-filterable			
	Residue #1	29.1	29.0	99.7 %
	Residue #2	534	528	98.8%

mean % Recovery - $\bar{R} = \frac{\Sigma R}{k} = \frac{198.5}{2} = 99.25$

Std. Deviation from mean % Recovery - $s = \sqrt{\frac{\Sigma(R-\bar{R})^2}{k-1}}$

where

$\bar{R}$ = mean % Recovery = 99.25%
R = individual recovery values - 99.7 and 98.8%
k = number of data points = 2

$$s = \sqrt{\frac{\Sigma(R-\bar{R})^2}{k-1}} = \sqrt{\frac{0.40}{1}} = \sqrt{0.40} = 0.63$$

PETROLEUM HYDROCARBONS, ppm

Date	QC Sample description	Actual Value (A)	Analytical Result (F)	% Recovery (R) R = 100 F/A
1/10/83	0.005% dispersion of #2 fuel oil	50	47	94
4/11/83	0.005% dispersion of #2 fuel oil	50	46	92

Standard Deviation from mean % Recovery - $s = \sqrt{\frac{\Sigma(R-\bar{R})^2}{k-1}}$

PETROLEUM HYDROCARBONS, ppm (con't)

where

$\bar{R}$ = mean % Recovery = 96.7%

R = individual recovery values - 94, 92 and 104%

k = number of data points = 3

$$s = \sqrt{\frac{\Sigma(R-\bar{R})^2}{k-1}} = \sqrt{\frac{82.67}{2}} = \sqrt{41.33} = 6.4$$

Date	QC Sample description	C.O.D., ppm Actual Value (A)	Analytical Result (F)	% Recovery (R) R = 100 F/A
1/10/83	EPA Sample WP 678			
	C.O.D. Sample #1	10.4	10.9	105%
	C.O.D. Sample #2	192.7	194.7	101%

mean % Recovery - $\bar{R} = \frac{\Sigma R}{k} = \frac{206}{2} = 103\%$

Std. Deviation from mean % Recovery - $s = \sqrt{\frac{\Sigma(R-\bar{R})^2}{k-1}}$

where

$\bar{R}$ = mean % Recovery = 103%

R = individual recovery values - 105 and 101%

k = number of data points

$$s = \sqrt{\frac{\Sigma(R-\bar{R})^2}{k-1}} = \sqrt{\frac{8}{1}} = \sqrt{8} = 2.8$$

Prepared by,

Charles F. Molino, Manager

Approved by,

Ralph H. Helmrich
DIAMOND AEROSOL CORP.

ATTACHMENT NO. 6

GAR EN STATE LABORA ORIES, INC.

Bacteriological and Chemical Testing
399 Stuyvesant Avenue
Irvington, N.J. 07111

Telephone
201-373-80

MATHEW KLEIN, M.S., Director
HARVEY KLEIN, M.S., Lab. Supervisor

REPORT OF VOLATILE ORGANIC ANALYSIS

REPORT # 51127184
CLIENT # HUN01
DATE SUBMITTED: 11/27/85

TO: HUNTERDON COUNTY HEALTH DEPT.
ADMINISTRATION BUILDING

FLEMINGTON NJ 08822
ATT: TODD WOERNER

SAMPLE TYPE: WATER
SAMPLE ID:
SAMPLE LOCATION: @ BISCHOFF-WOODGLEN ROAD-LEBANON TOWNSHIP

DATE SAMPLED: TIME SAMPLED:

COMPOUND	RESULT	COMPOUND	RESULT
Chloromethane	<5.0	1,1,2 Trichloroethane	<5.0
Bromomethane	5.0	cis-1,3 Dichloropropylene	<5.0
Dichlorodifluoromethane	<5.0	Benzene	<5.0
Vinyl Chloride	<5.0	2-Chloroethylvinyl ether	<5.0
Chloroethane	<5.0	Bromoform	<5.0
Methylene Chloride	<5.0	1,1,2,2 Tetrachloroethane	<5.0
Trichlorofluoromethane	<5.0	Tetrachloroethylene	<5.0
1,1 Dichloroethylene	<5.0	Toluene	<5.0
1,1 Dichloroethane	<5.0	Chlorobenzene	<5.0
trans-1,2 Dichloroethylene	<5.0	Ethylbenzene	<5.0
Chloroform	<5.0	o-Xylene	<5.0
1,2 Dichloroethane	<5.0	m-Xylene	<5.0
1,1,1 Trichloroethane	5	p-Xylene	<5.0
Carbon Tetrachloride	<5.0	1,2 Dichlorobenzene	<5.0
Bromodichloromethane	<5.0	1,3 Dichlorobenzene	<5.0
1,2 Dichloropropane	<5.0	1,4 Dichlorobenzene	<5.0
trans-1,3 Dichloropropene	<5.0	1,2,4 Trichlorobenzene	<5.0
Trichloroethylene	<5.0		
Dibromochloromethane	<5.0		
Methyl tert-Butyl Ether	<5.0		
Isopropyl Ether	<5.0		

RESULTS ARE IN PARTS PER BILLION.
(<) LESS THAN, NONE DETECTED. ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY MASS SPECTROMETR
USEPA

THE LIABILITY OF GARDEN STATE LABORATORIES, INC. FOR SERVICES RENDERED SHALL IN NO EVENT EXCEED THE AMOUNT OF THE INVOICE.

Certified by U.S. Public Health Service, N.J. Dept. of Health and N.J.D.E.P. – Lab #07044

ATTACHMENT I D.1

For Approval
Use:

State of New Jersey
Department of Environmental Protection

REFERRAL FORM

Date FEBRUARY 14, 1986

TO	FROM
JOHN DICKINSON	Steven Spayd, Supervisor
OFFICE OF REG SERVICES	Enforcement/A-280 Section
NJDEP	NEW JERSEY GEOLOGICAL SURVEY
8th floor L&I BLDG.	Bureau of Ground Water Pollution Analysis
	TELEPHONE EXT. 609-292-0668

RECEIVED FEB 18 1 16 PM '86

For Your ☐ ACTION ☐ APPROVAL ☒ INFORMATION ☐ REVIEW
☐ COMMENTS ☐ SIGNATURE ☐ FILE ☐ _____

John,

Attached is a copy of a November, 1985 well sample from the Bischoff residence located downgradient and across the street from Diamond Aerosol. The analysis indicates 5ppb of 111 trichloroethane. This is consistent with previous samplings and requires no action but to resample again about mid-summer 1986.

No new date has been set for installation of the monitor wells yet.

Steve

cc: [redacted], Bur. of Industrial Site Evaluation, HSMA.
George Smadja, Office of Regulatory Services.

ATTACHMENT I. D.2

REFERENCE NO. 20

Figure 4
Four-Mile Radius Map
Diamond Aerosol Corporation Site
Glen Gardner, Hunterdon County, NJ

REFERENCE NO. 21

Work Order Number: 20064-052-100-4042
Contract Number: 68-W7-0026

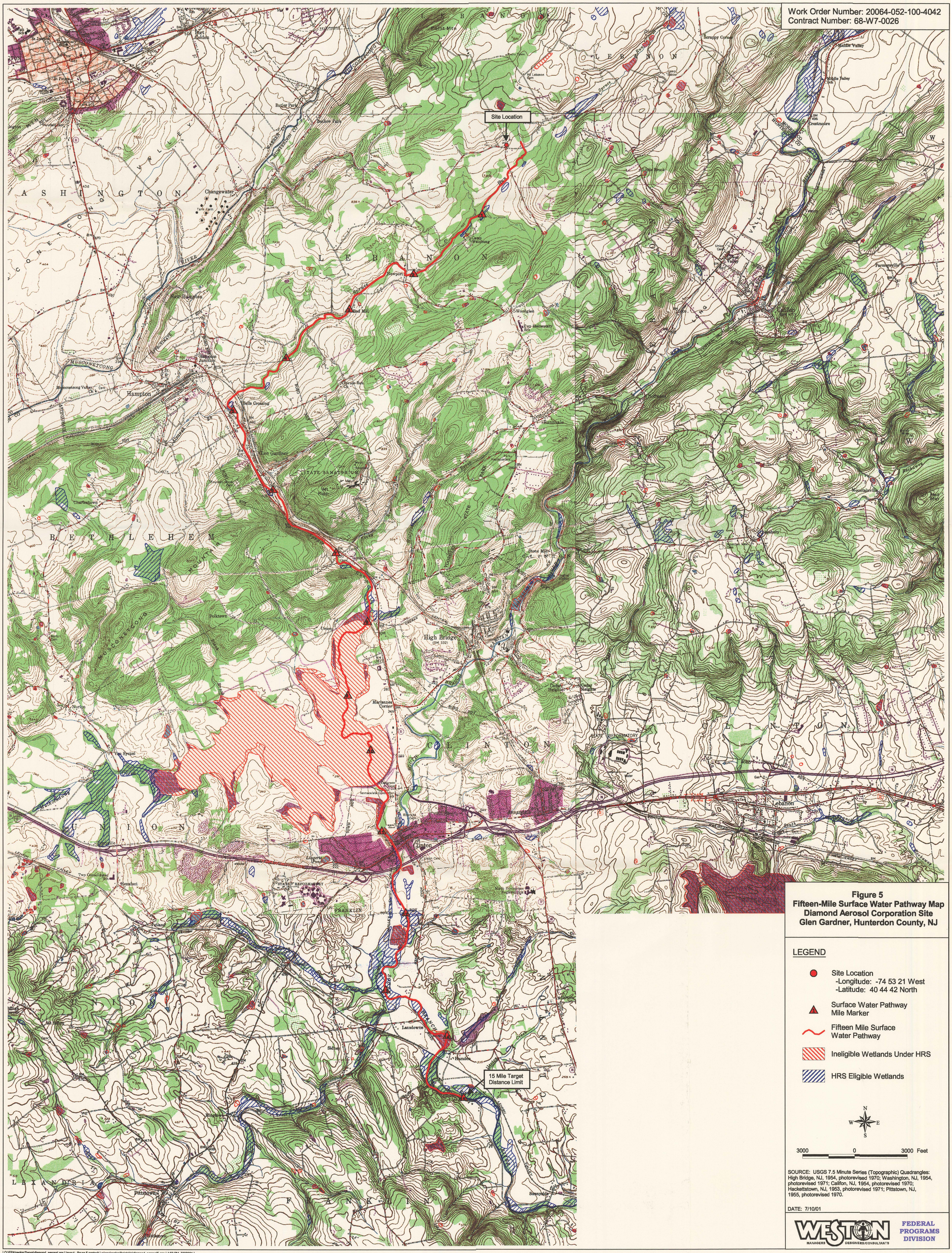


Figure 5
Fifteen-Mile Surface Water Pathway Map
Diamond Aerosol Corporation Site
Glen Gardner, Hunterdon County, NJ

LEGEND

- Site Location
  - -Longitude: -74 53 21 West
  - -Latitude: 40 44 42 North
- Surface Water Pathway Mile Marker
- Fifteen Mile Surface Water Pathway
- Ineligible Wetlands Under HRS
- HRS Eligible Wetlands

N W E S

3000 0 3000 Feet

SOURCE: USGS 7.5 Minute Series (Topographic) Quadrangles: High Bridge, NJ, 1954, photorevised 1970; Washington, NJ, 1954, photorevised 1971; Califon, NJ, 1954, photorevised 1970; Hackettstown, NJ, 1953, photorevised 1971; Pittstown, NJ, 1955, photorevised 1970.

DATE: 7/10/01

WESTON MANAGERS DESIGNERS/CONSULTANTS

FEDERAL PROGRAMS DIVISION

| O:\EPA\region2\aprs\diamond_aerosol.apr | layout - figure 5 portrait | o:\epa\region2\plots\in\diamond_aerosol5.eps | 4:52 PM, 7/9/2001 |

REFERENCE NO. 22

FROST ASSOCIATES

88 Founders Village, Clinton, CT 06413
(860) 669-5859 FAX (860) 669-5869

March 7, 2000

To: Roy F. Weston Inc - Region II START
1090 King Georges Post Road, Suite 201
Edison, NJ

Attn: Harry Allen

Fr: Frost Associates
Founders Village
Clinton, Conn 06413

Tel: (203) 669-5859
Fax: (860) 669-5859

Sub: Diamond Aerosol
Glen Gardner, NJ

CERCLIS:

Job: 6519

Site Longitude: 74-53-21 74.889168
Site Latitude : 40-45-09 40.752499

The CENTRACTS report below identifies the population, households, and private water wells of each Block Group that lies within, or partially within, the 4, 3, 2, 1, .5, and .25, mile "rings" of the latitude and longitude coordinates above. A CENTRACTS report may have up to six radii of any length and 1500 block groups.

CENTRACTS uses the 1990 Block Group population and Block Group house count data found in the Census Bureau's 1990 STF-1A files. The sources of water supply data are from The Bureau's 1990 STF-3A files. The boundary line coordinates of the Block Groups were extracted from the Census Bureau's 1990 TIGER/Line Files.

CENTRACTS reports are created with programs written by Frost Associates, 88 Founders Village, Clinton Conn 06413. The code was written using Microsoft's Quick-Basic Ver. 4.5.

Latitude and Longitude coordinates identifying a site are entered in degrees and decimal degrees. One or more county files holding Block Group boundary lines are selected for use by CENTRACTS by determining whether the site coordinates fall within the minimum and maximum Lat\Lon coordinates of each county in the state.

Each Block Group line segment has Lat\Lon coordinates representing the "From" and "To" ends of that line. All coordinates from the selected county files are read and converted from degrees, decimal degrees to X\Y miles from the site location. Each line segment is then examined whether it lies within or partially within the maximum ring from the site.

The unique Block Group ID numbers of each line segment that lie within the maximum ring are retained. All Block Group boundary lines matching the Block Group numbers are then extracted from the respective county files to obtain all sides of the included Block Groups. Boundary records are then sorted in adjacent side order to determine the shape and area of each Block Group polygon.

A method to solve for the area of a polygon is to take one-half the sum of the pro-

ducts obtained by multiplying each X-coordinate by the difference between the adjacent Y-coordinates. For a polygon with coordinates at adjacent angles A, B, C, D, and E. The formula can be expressed:

Area = 1/2{Xa(Ye-Yb)+ Xb(Ya-Yb)+ Xc(Yb-Yd)+ Xd(Yc-Ye)+ Xe(Yd-Ya)}

For each ring, the selected Block Groups will be inside, outside, or intersected by the ring. When a polygon is intersected, the partial Block Group area within that ring is calculated using the method described below.

When a ring intersects a Block Group, the intersect points are solved and plotted at the points where the ring enters and exits the shape. The chord line, a line within the circle connecting the intersect points is determined. This chord line is used to calculate the segment area, the half moon shape between the chord line and the ring, and the sub-polygon created by the chord line and the Block Group boundaries that lie outside the ring.

The segment area is subtracted from the sub-polygon area to determine the area of the sub-polygon outside the ring. The area outside the ring is then subtracted from the area of the entire polygon to arrive at the inside area. This inside area is then divided by the tract's total area to determine the percentage of area within the ring. This process is repeated for each block group that is intersected by one of the rings. The total area, partial area, and percentage of partial area of those block groups within, or partially within a ring, are held in memory for the report.

On occasion, the algorithm described above is unable to determine the area of the partial area. Within the report program is a "Paint" routine which allows an enclosed shape to be highlighted. Another routine calculates the percentage of highlighted screen pixels to the pixels within the polygon. A manual entry is allowed. Both the "paint" method and manual entry method over ride the calculated method.

CENTRACTS lists, starting on page 4, all Block Groups in State, County, Census Tract, and Block Group ID order that lie within, or partially within, the maximum ring. Each Block Group is identified by a City or Town name and by the Block Group's State, County, Tract and Block Group ID number. Following is the Block Group's 1990 populu tion and house count extracted from the Census Bureau's 1990 STF-1A files.

The next four columns display water source data from the 1990 STF-3A files. The first column is "Units with Public system or private company source of water", followed by "Units with individual well, Drilled, source of water"; "Units with individual well, Dug, source of water" and "Units with Other source of water".

For each ring, CENTRACTS then shows the Block Groups that are within that ring, the Block Group's total area in square miles, the partial area of the Block Group within that ring, and the partial percentage within the ring. The areas of the included Block Group and the partial areas are then totaled.

The last section tallies the demographic data within each ring. The percentage of area for each Block Group is multiplied times the census data for that Block Group and totaled for all Block Group's within the ring. Ring totals are then determined by subtracting the three mile data from the four mile, the two mile from the three mile, one from the two, etc... Population on private wells is calculated using the formula: ((Drilled + Dug Wells) / Households) * Population

Diamond Aerosol
Glen Gardner, NJ

No.	City	Block Group ID	Blk Grp People	House Holds	Public Water	Drilled Wells	Dug Wells	Other
1	Glen Gardner	34019 0103 3	1129	450	325	116	18	4
2	Tewksbury	34019 0121 5	8	3	0	0	0	0
3	Tewksbury	34019 0101981	1376	470	7	434	26	15
4	Tewksbury	34019 0101983	1977	743	0	662	61	7
5	Lebanon	34019 0102981	875	318	11	241	18	19
6	Lebanon	34019 0102982	1468	519	61	425	7	22
7	Lebanon	34019 0102983	1686	546	9	515	8	23
8	Lebanon	34019 0102984	1650	660	124	530	18	12
9	Lebanon	34019 0102985	1073	416	347	63	6	0
10	Washington	34027 0455 1	8	2	0	0	0	0
11	Washington	34027 0456 1	0	0	0	0	0	0
12	Washington	34027 0462974	1425	437	29	374	14	0
13	Washington	34027 0462975	1384	458	48	379	0	23
14	Washington	34027 0462982	1609	527	67	388	46	24
15	Mansfield	34041 0315 1	1304	438	28	379	10	19
16	Mansfield	34041 0315 3	651	235	9	210	0	0
17	Mansfield	34041 0315 4	1117	390	58	318	29	8
18	Washington	34041 0319 1	979	400	321	81	0	11
19	Washington	34041 0319 2	1536	532	208	287	15	0
20	Washington	34041 0320 3	1161	395	387	0	0	0
21	Washington	34041 0320 4	1275	581	594	0	0	0
	Totals:		23691	8520	2633	5402	276	187

Diamond Aerosol
Glen Gardner, NJ

City	Census Tract ID	Tract People	House Count	Public Water	Drilled Wells	Dug Wells	Other Sources
Glen Gardner	34019 0103 3	1129	450	325	116	18	4
	Sub Totals:	1129	450	325	116	18	4
Lebanon	34019 0102983	1686	546	9	515	8	23
Lebanon	34019 0102984	1650	660	124	530	18	12
Lebanon	34019 0102985	1073	416	347	63	6	0
Lebanon	34019 0102981	875	318	11	241	18	19
Lebanon	34019 0102982	1468	519	61	425	7	22
	Sub Totals:	6752	2459	552	1774	57	76
Mansfield	34041 0315 4	1117	390	58	318	29	8
Mansfield	34041 0315 1	1304	438	28	379	10	19
Mansfield	34041 0315 3	651	235	9	210	0	0
	Sub Totals:	3072	1063	95	907	39	27
Tewksbury	34019 0101981	1376	470	7	434	26	15
Tewksbury	34019 0101983	1977	743	0	662	61	7
Tewksbury	34019 0121 5	8	3	0	0	0	0
	Sub Totals:	3361	1216	7	1096	87	22
Washington	34027 0462975	1384	458	48	379	0	23
Washington	34027 0462982	1609	527	67	388	46	24
Washington	34027 0455 1	8	2	0	0	0	0
Washington	34027 0456 1	0	0	0	0	0	0
Washington	34027 0462974	1425	437	29	374	14	0
Washington	34041 0319 1	979	400	321	81	0	11
Washington	34041 0319 2	1536	532	208	287	15	0
Washington	34041 0320 3	1161	395	387	0	0	0
Washington	34041 0320 4	1275	581	594	0	0	0
	Sub Totals:	9377	3332	1654	1509	75	58

Diamond Aerosol
Glen Gardner, NJ

For Radius of 4 Mi., Circle Area = 50.265482

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
1	Glen Gardner	34019 1033	1.355005	0.158665	11.71
2	Tewksbury	34019 1215	0.037172	0.037172	100.00
3	Tewksbury	34019 101981	7.486926	0.956437	12.77
4	Tewksbury	34019 101983	11.311830	0.027206	0.24
5	Washington	34041 3204	0.303591	0.035035	11.54
6	Lebanon	34019 102982	6.349510	6.349510	100.00
7	Lebanon	34019 102983	9.232746	8.201923	88.84
8	Lebanon	34019 102984	7.430693	3.992552	53.73
9	Lebanon	34019 102985	0.967285	0.898020	92.84
10	Washington	34027 4551	0.159641	0.159641	100.00
11	Washington	34027 4561	0.014537	0.002081	14.31
12	Washington	34027 462974	6.142612	0.942802	15.35
13	Washington	34027 462975	6.747308	6.320912	93.68
14	Washington	34027 462982	6.759152	1.072324	15.86
15	Mansfield	34041 3151	14.882892	0.685041	4.60
16	Mansfield	34041 3153	5.321894	4.278419	80.39
17	Mansfield	34041 3154	5.572352	4.900947	87.95
18	Washington	34041 3191	3.279212	0.574552	17.52
19	Washington	34041 3192	4.695266	3.083994	65.68
20	Washington	34041 3203	0.373870	0.003701	0.99
21	Lebanon	34019 102981	7.901876	7.901876	100.00
	Totals:		106.325371	50.582809	

For Radius of 3 Mi., Circle Area = 28.274334

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
2	Tewksbury	34019 1215	0.037172	0.037172	100.00
6	Lebanon	34019 102982	6.349510	5.669415	89.29
7	Lebanon	34019 102983	9.232746	4.775495	51.72
8	Lebanon	34019 102984	7.430693	0.985796	13.27
9	Lebanon	34019 102985	0.967285	0.055798	5.77
10	Washington	34027 4551	0.159641	0.159641	100.00
13	Washington	34027 462975	6.747308	3.454264	51.19
16	Mansfield	34041 3153	5.321894	1.887770	35.47
17	Mansfield	34041 3154	5.572352	2.577971	46.26
19	Washington	34041 3192	4.695266	0.880725	18.76
21	Lebanon	34019 102981	7.901876	7.901876	100.00
	Totals:		54.415745	28.385923	

For Radius of 2 Mi., Circle Area = 12.566371

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
2	Tewksbury	34019 1215	0.037172	0.003228	8.68

6	Lebanon	34019 102982	6.349510	2.345063	36.93
7	Lebanon	34019 102983	9.232746	1.933886	20.95
10	Washington	34027 4551	0.159641	0.056158	35.18
13	Washington	34027 462975	6.747308	0.167858	2.49
16	Mansfield	34041 3153	5.321894	0.317201	5.96
17	Mansfield	34041 3154	5.572352	0.496695	8.91
21	Lebanon	34019 102981	7.901876	7.246282	91.70
	Totals:		41.322498	12.566370	

For Radius of 1 Mi., Circle Area = 3.141593

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
6	Lebanon	34019 102982	6.349510	0.451246	7.11
7	Lebanon	34019 102983	9.232746	0.232907	2.52
21	Lebanon	34019 102981	7.901876	2.457440	31.10
	Totals:		23.484133	3.141593	

For Radius of .5 Mi., Circle Area = 0.785398

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
6	Lebanon	34019 102982	6.349510	0.002006	0.03
21	Lebanon	34019 102981	7.901876	0.783393	9.91
	Totals:		14.251387	0.785398	

For Radius of .25 Mi., Circle Area = 0.196350

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
21	Lebanon	34019 102981	7.901876	0.196350	2.48
	Totals:		7.901876	0.196350	

Diamond Aerosol
Glen Gardner, NJ

========== Site Data ==========

Population:	10727.58
Households:	3804.70
Drilled Wells:	2680.04
Dug Wells:	98.19
Other Water Sources:	105.47

========== Partial (RING) data ==========

---- Within Ring: 4 Mile(s) and 3 Mile(s) ----

Population:	5628.63
Households:	2026.28
Drilled Wells:	1249.77
Dug Wells:	50.84
Other Water Sources:	37.87

** Population On Private Wells: 3612.86 3,613

---- Within Ring: 3 Mile(s) and 2 Mile(s) ----

Population:	3224.92
Households:	1119.63
Drilled Wells:	894.14
Dug Wells:	24.00
Other Water Sources:	35.96

** Population On Private Wells: 2644.55 2,645

---- Within Ring: 2 Mile(s) and 1 Mile(s) ----

Population:	1455.06
Households:	509.24
Drilled Wells:	417.99
Dug Wells:	17.06
Other Water Sources:	23.60

** Population On Private Wells: 1243.06 1,244

---- Within Ring: 1 Mile(s) and .5 Mile(s) ----

Population:	331.77
Households:	117.86
Drilled Wells:	94.12
Dug Wells:	4.51
Other Water Sources:	6.16

** Population On Private Wells: 277.62 278

Diamond Aerosol
Glen Gardner, NJ

---- Within Ring: .5 Mile(s) and .25 Mile(s) ----

Population:	65.47
Households:	23.79
Drilled Wells:	18.04
Dug Wells:	1.34
Other Water Sources:	1.42

** Population On Private Wells: 53.33 54

---- Within Ring: .25 Mile(s) and 0 Mile(s) ----

Population:	21.74
Households:	7.90
Drilled Wells:	5.99
Dug Wells:	0.45
Other Water Sources:	0.47

** Population On Private Wells: 17.71

** Total Population On Private Wells: 7849.12

REFERENCE NO. 23

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Division of Parks and Forestry
Office of Natural Lands Management
Natural Heritage Program
P.O. Box 404
Trenton, NJ 08625-0404
Tel. #609-984-1339
Fax. #609-984-1427

March 7, 2000

Scott Snyder
Roy F. Weston, Inc.
1090 King Georges Post Road, Suite 201
Edison, NJ 08837-3703

Re: Diamond Aerosol Corporation and Associated Waterways

Dear Mr. Snyder:

Thank you for your data request regarding rare species information for the above referenced project site in Lebanon Township, Hunterdon County.

The Natural Heritage Data Base does not have any records for rare plants, animals, or natural communities on the site. However, there are records for nine occurrences of rare species that may be on or in the immediate vicinity of the waterways that you have associated with the site. The attached list provides additional information about these occurrences. Also attached is a list of rare species from records in the general vicinity of the project site (within approximately 4 miles).

Additionally, enclosed are lists of rare species and natural communities that have been documented from Hunterdon County. This county list can be used as a master species list for directing further inventory work. If suitable habitat is present within the study area, these species have potential to be present. If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend you contact the Division of Fish, Game and Wildlife, Endangered and Nongame Species Program.

In order to red flag the general locations of documented occurrences of rare and endangered species and natural communities, we have prepared computer generated Natural Heritage Index Maps. Enclosed please find these maps for the Washington, Hackettstown, High Bridge, Califon and Pittstown USGS quadrangles. If individual projects are to be located in the shaded areas of these maps, the Natural Heritage Program can be contacted for additional information.

PLEASE SEE THE ATTACHED 'CAUTIONS AND RESTRICTIONS ON NHP DATA'.

Thank you for consulting the Natural Heritage Program. The attached invoice details the

payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,

Thomas F. Breden
Supervisor

cc: Lawrence Niles
Thomas Hampton
NHP File No. 00-4007478

NATURAL LANDS MANAGEMENT

CAUTIONS AND RESTRICTIONS ON NATURAL HERITAGE DATA

The quantity and quality of data collected by the Natural Heritage Program is dependent on the research and observations of many individuals and organizations. Not all of this information is the result of comprehensive or site-specific field surveys. Some natural areas in New Jersey have never been thoroughly surveyed. As a result, new locations for plant and animal species are continuously added to the data base. Since data acquisition is a dynamic, ongoing process, the Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of New Jersey. Information supplied by the Natural Heritage Program summarizes existing data known to the program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. The attached data is provided as one source of information to assist others in the preservation of natural diversity.

This office cannot provide a letter of interpretation or a statement addressing the classification of wetlands as defined by the Freshwater Wetlands Act. Requests for such determination should be sent to the DEP Land Use Regulation Program, P.O. Box 401, Trenton, NJ 08625-0401.

This cautions and restrictions notice must be included whenever information provided by the Natural Heritage Database is published.

03 MAR 2000

ON OR IN THE IMMEDIATE VICINITY OF ASSOCIATED WATERWAYS
RARE SPECIES AND NATURAL COMMUNITIES PRESENTLY RECORDED IN
THE NEW JERSEY NATURAL HERITAGE DATABASE

NAME	COMMON NAME	FEDERAL STATUS	STATE STATUS	REGIONAL STATUS	GRANK	SRANK	DATE OBSERVED	IDENT.
*** Vertebrates								
CLEMMYS INSCULPTA	WOOD TURTLE		T		G4	S3	1999-09-23	Y
CLEMMYS INSCULPTA	WOOD TURTLE		T		G4	S3	1996-09-22	Y
CLEMMYS INSCULPTA	WOOD TURTLE		T		G4	S3	1997-07-04	Y
CLEMMYS INSCULPTA	WOOD TURTLE		T		G4	S3	1996-09-22	Y
CLEMMYS MUHLENBERGII	BOG TURTLE	LT	E		G3	S2	1981-05-20	Y
EURYCEA LONGICAUDA LONGICAUDA	LONGTAIL SALAMANDER		T		G5T5	S2	1910-05-18	Y
*** Ecosystems								
CAVE AQUATIC COMMUNITY	CAVE AQUATIC COMMUNITY				G4?	S2	19??-??-??	Y
CAVE AQUATIC COMMUNITY	CAVE AQUATIC COMMUNITY				G4?	S2	19??-??-??	Y
*** Vascular plants								
CAREX FRANKII	FRANK'S SEDGE				G5	S3	1973-06-30	Y

9 Records Processed

03 MAR 2000

GENERAL VICINITY OF PROJECT SITE
RARE SPECIES AND NATURAL COMMUNITIES PRESENTLY RECORDED IN
THE NEW JERSEY NATURAL HERITAGE DATABASE

NAME	COMMON NAME	FEDERAL STATUS	STATE STATUS	REGIONAL STATUS	GRANK	SRANK	DATE OBSERVED	IDENT.
*** Vertebrates								
CLEMMYS INSCULPTA	WOOD TURTLE		T		G4	S3	1984-07-03	
CLEMMYS INSCULPTA	WOOD TURTLE		T		G4	S3	1983-11-12	Y
CLEMMYS INSCULPTA	WOOD TURTLE		T		G4	S3	1988-08-03	
CLEMMYS MUHLENBERGII	BOG TURTLE	LT	E		G3	S2	1999-04-??	Y
CLEMMYS MUHLENBERGII	BOG TURTLE	LT	E		G3	S2	1987-04-??	Y
DOLICHONYX ORYZIVORUS	BOBOLINK		T/T		G5	S2B	1985-SUMMR	Y
DOLICHONYX ORYZIVORUS	BOBOLINK		T/T		G5	S2B	1987-SUMMR	Y
DOLICHONYX ORYZIVORUS	BOBOLINK		T/T		G5	S2B	1987-SUMMR	Y
DOLICHONYX ORYZIVORUS	BOBOLINK		T/T		G5	S2B	1982-SUMMR	Y
DOLICHONYX ORYZIVORUS	BOBOLINK		T/T		G5	S2B	1985-SUMMR	Y
LYNX RUFUS	BOBCAT		E		G5	S3	1993-11-11	
PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW		T/T		G5	S2B,S4N	1996-06-22	Y
PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW		T/T		G5	S2B,S4N	1987-06-21	Y
PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW		T/T		G5	S2B,S4N	1982-??-??	Y
PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW		T/T		G5	S2B,S4N	1987-06-21	Y
POOECETES GRAMINEUS	VESPER SPARROW		E		G5	S1B,S2N	1987-06-21	Y
*** Vascular plants								
CAREX FRANKII	FRANK'S SEDGE				G5	S3	1985-??-??	Y
CAREX LEPTONERVIA	FINELY-NERVED SEDGE		E		G4	S1	1938-05-28	Y
ERIOPHORUM GRACILE	SLENDER COTTONGRASS		E		G5	SH	1910-05-29	Y
RANUNCULUS TRICHOPHYLLUS	WHITE WATER BUTTERCUP				G5	S2	1970-??-??	Y
SEDUM TELEPHIOIDES	ALLEGHENY STONECROP				G4	SX.1	1904-10-01	Y

21 Records Processed

NATURAL HERITAGE INDEX MAPS

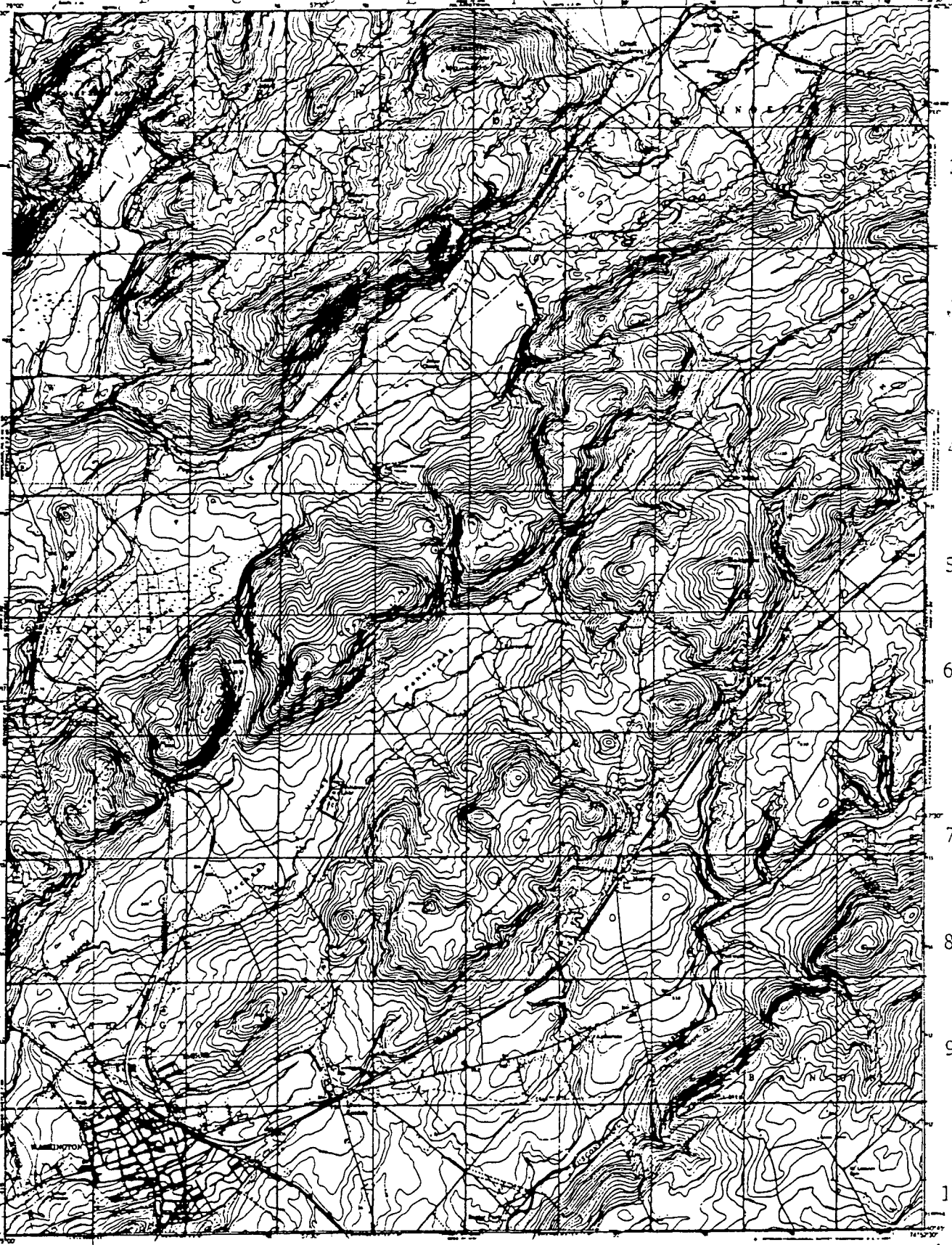
The Natural Heritage Database contains several thousand records of individual occurrences of endangered and threatened species and ecosystems. Many of these occurrences either have not been documented in recent years or have not had habitat boundaries delineated. Because much work remains to be done to delineate habitat boundaries and determine current status for these occurrences, Natural Heritage Index Maps were devised to red flag general areas in which the occurrences are located. The index maps are meant to be used as a tool to point to areas which may be of significance for endangered biological diversity. These maps do not depict all endangered species habitat in the state, but merely general areas which contain documented occurrences. Many additional areas may contain unidentified or poorly documented occurrences.

The maps have been produced using a computer generated grid which shades a grid cell approximately 330 acres in size if an endangered or threatened species or ecosystem has been documented anywhere within the cell. To use these maps, we suggest that you first find the location to be checked on the quad maps and then refer to the same grid location of the Natural Heritage Index Maps. The Natural Heritage Program can be contacted for additional information as specific projects are planned.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

WASHINGTON QUADRANGLE
NEW JERSEY
7.5 MINUTE SERIES (TOPOGRAPHIC)



SCALE 1:24 000

ROAD CLASSIFICATION

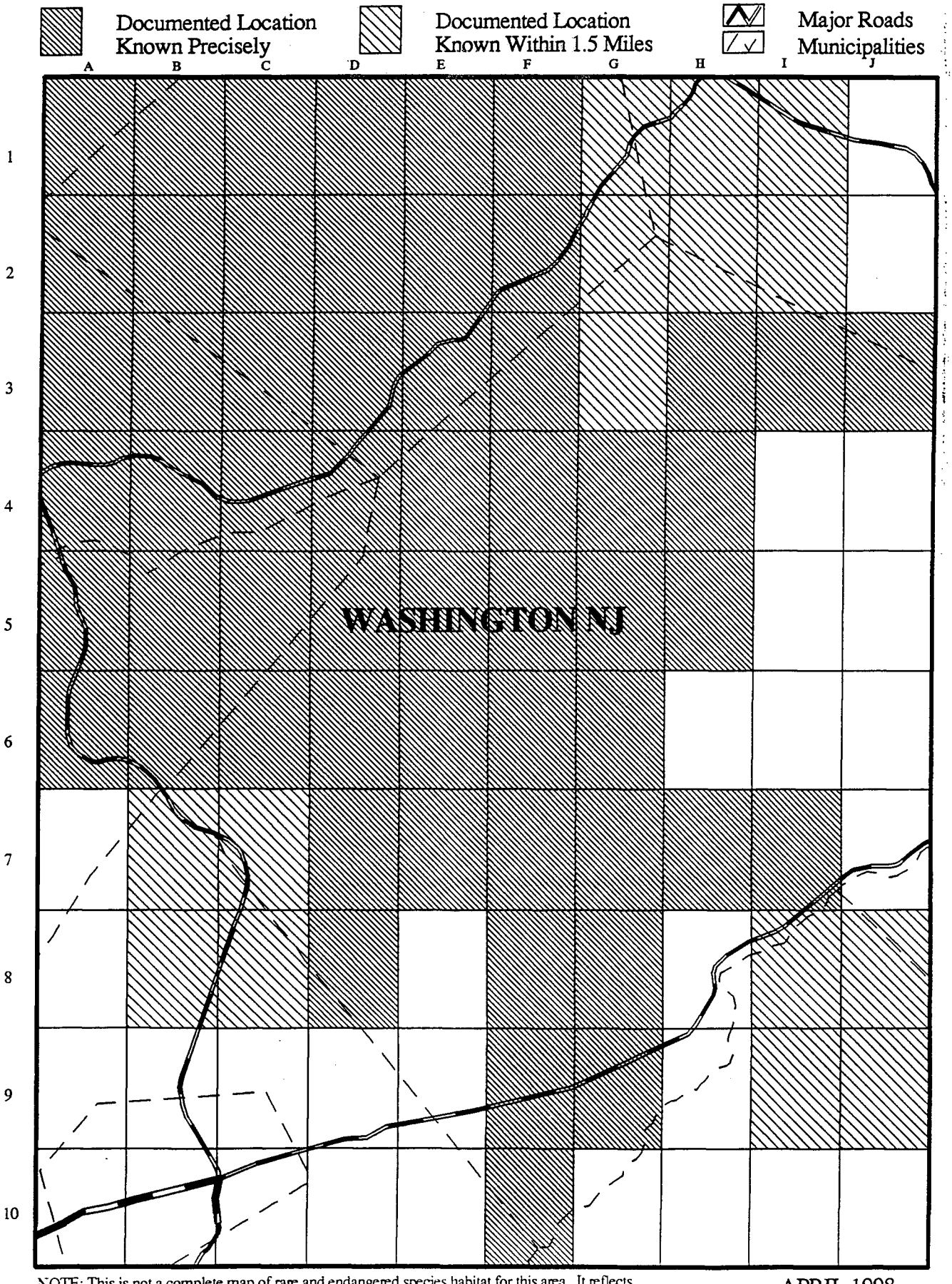
CONTOUR INTERVAL 20 FEET

WASHINGTON, N. J.

35

Generalized Natural Heritage Index Map

Generalized Locations for Rare and Endangered Elements of Natural Diversity



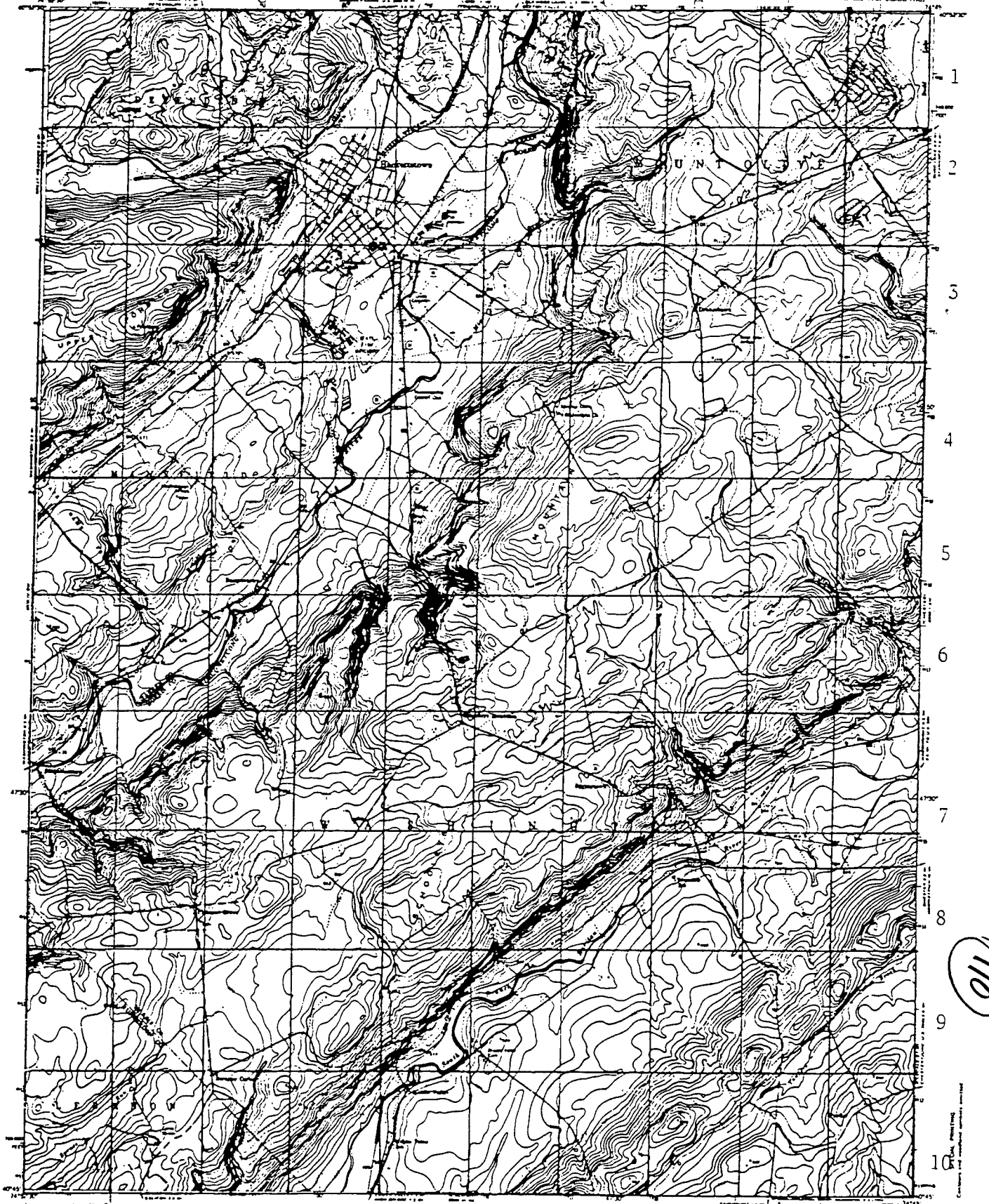
NOTE: This is not a complete map of rare and endangered species habitat for this area. It reflects data on known occurrences compiled as of the above date. It includes both historically and recently documented habitat. Additional occurrences may be found on unsurveyed habitat. For more information, contact the Office of Natural Lands Management, CN404, Trenton, NJ 08625.

APRIL 1998
Updated semiannually

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

HACKETTSTOWN QUADRANGLE
NEW JERSEY
7.5 MINUTE SERIES (TOPOGRAPHIC)



Prepared by the Army Map Service
Edited and published by the Geological Survey
Control by USGS, USC&GS, and New Jersey Geodetic Survey
Topography from aerial photographs by photogrammetric methods. Aerial photographs taken 1961. Field check 1963
Culture revised by the Geological Survey 1971
Projection: 1927 North American datum
10 000-foot grid based on New Jersey coordinate system
Red tint indicates area in which only significant buildings are shown
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20242
A FULLY INFORMATIVE TOPOGRAPHIC MAP AND SCHEDULE OF OTHER MAPS

ROAD CLASSIFICATION

HACKETTSTOWN N J

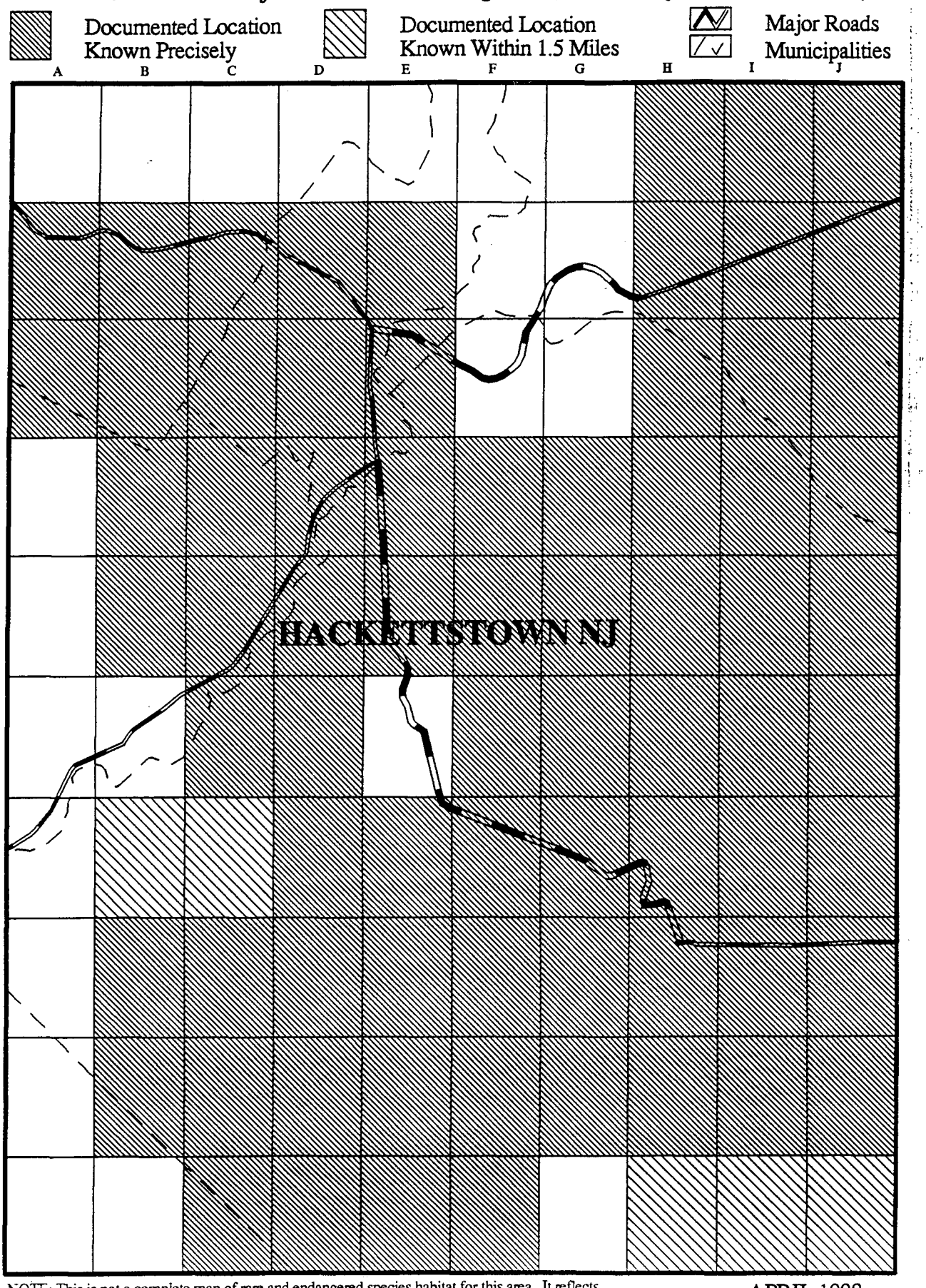
1972

110

36

Generalized Natural Heritage Index Map

Generalized Locations for Rare and Endangered Elements of Natural Diversity



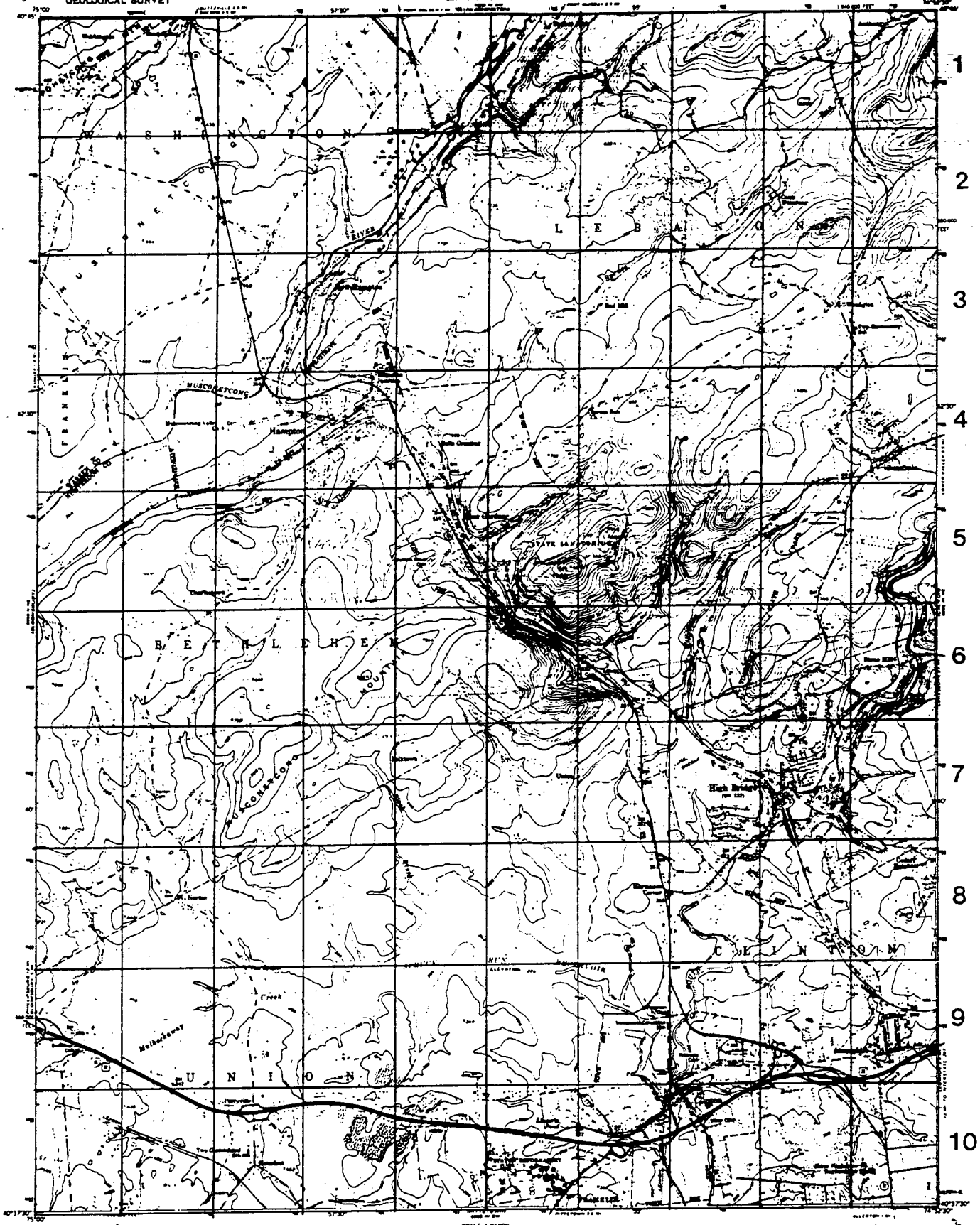
NOTE: This is not a complete map of rare and endangered species habitat for this area. It reflects data on known occurrences compiled as of the above date. It includes both historically and recently documented habitat. Additional occurrences may be found on unsurveyed habitat. For more information, contact the Office of Natural Lands Management, CN404, Trenton, NJ 08625.

APRIL 1998
Updated semiannually

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

HIGH BRIDGE QUADRANGLE
NEW JERSEY
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped by the Army Map Service
Edited and published by the Geological Survey

Control by USC&GS, USSCS, and New Jersey Geodetic Survey

Topography from aerial photographs by photogrammetric methods. Aerial photographs taken 1942. Field check 1942
Culture revised by the Geological Survey 1954

Polyconic projection. 1927 North American datum
10 000-foot grid based on New Jersey coordinate system
1000-meter Universal Transverse Mercator grid ticks, zone 18

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Light duty
Unimproved dirt
U.S. Route
State Route

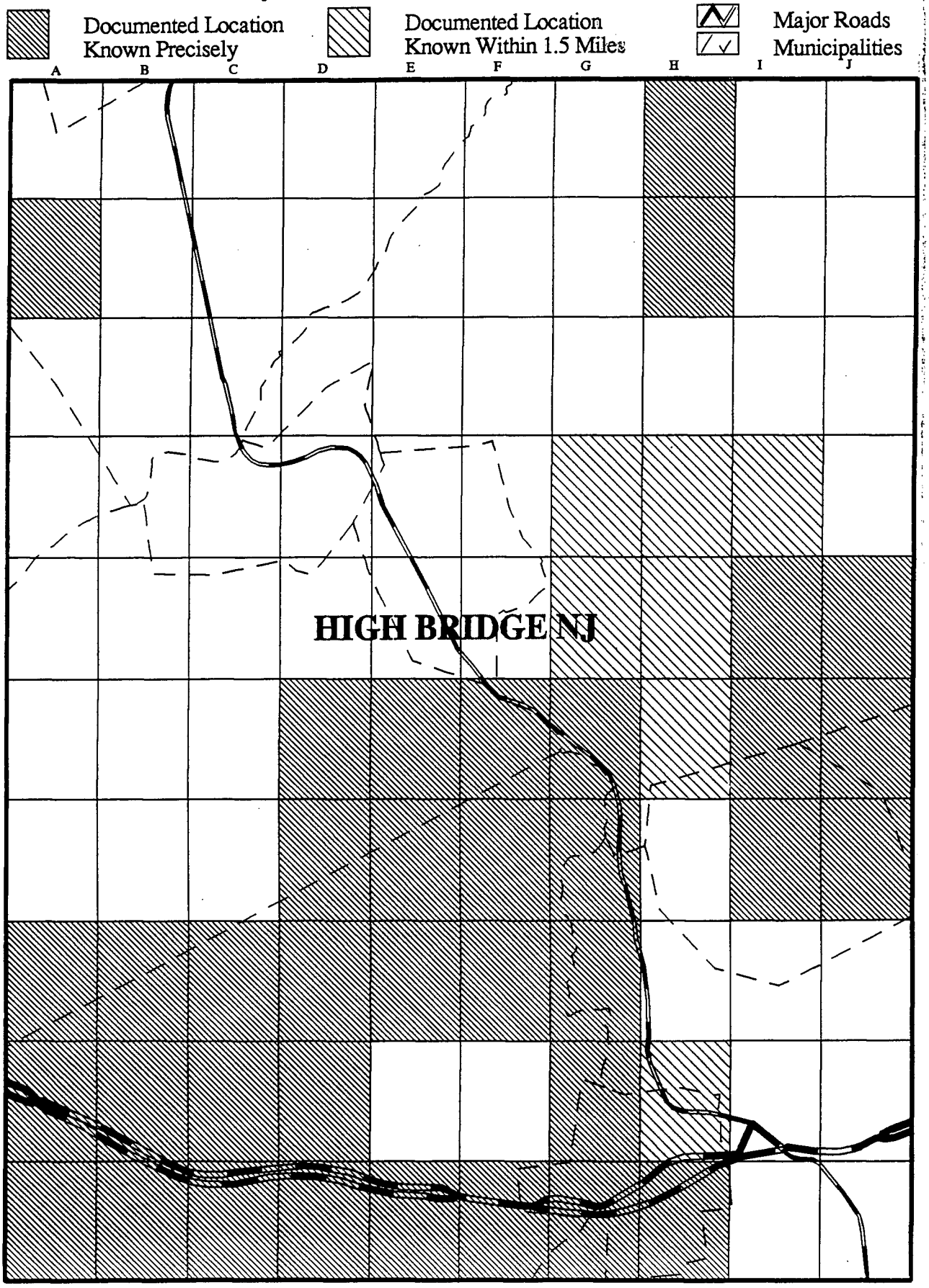
HIGH BRIDGE, N. J.
N4037.5—W7452.5/7.5

PHOTOREVISED 1970

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Generalized Natural Heritage Index Map

Generalized Locations for Rare and Endangered Elements of Natural Diversity



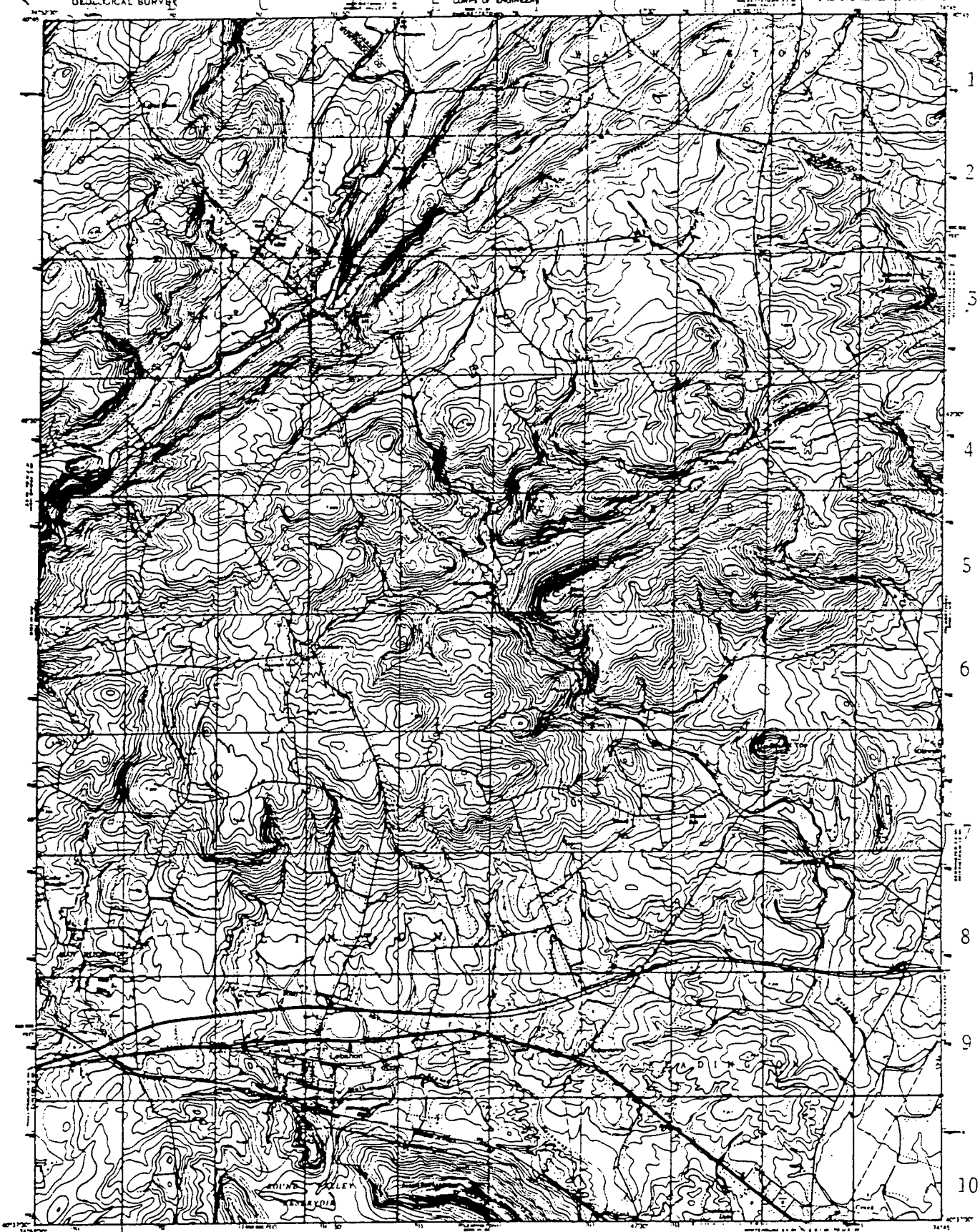
NOTE: This is not a complete map of rare and endangered species habitat for this area. It reflects data on known occurrences compiled as of the above date. It includes both historically and recently documented habitat. Additional occurrences may be found on unsurveyed habitat. For more information, contact the Office of Natural Lands Management, CN404, Trenton, NJ 08625.

APRIL 1998
Updated semiannually

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

CALIFON QUADRANGLE
NEW JERSEY
7.5 MINUTE SERIES (TOPOGRAPHIC)



ROAD CLASSIFICATION

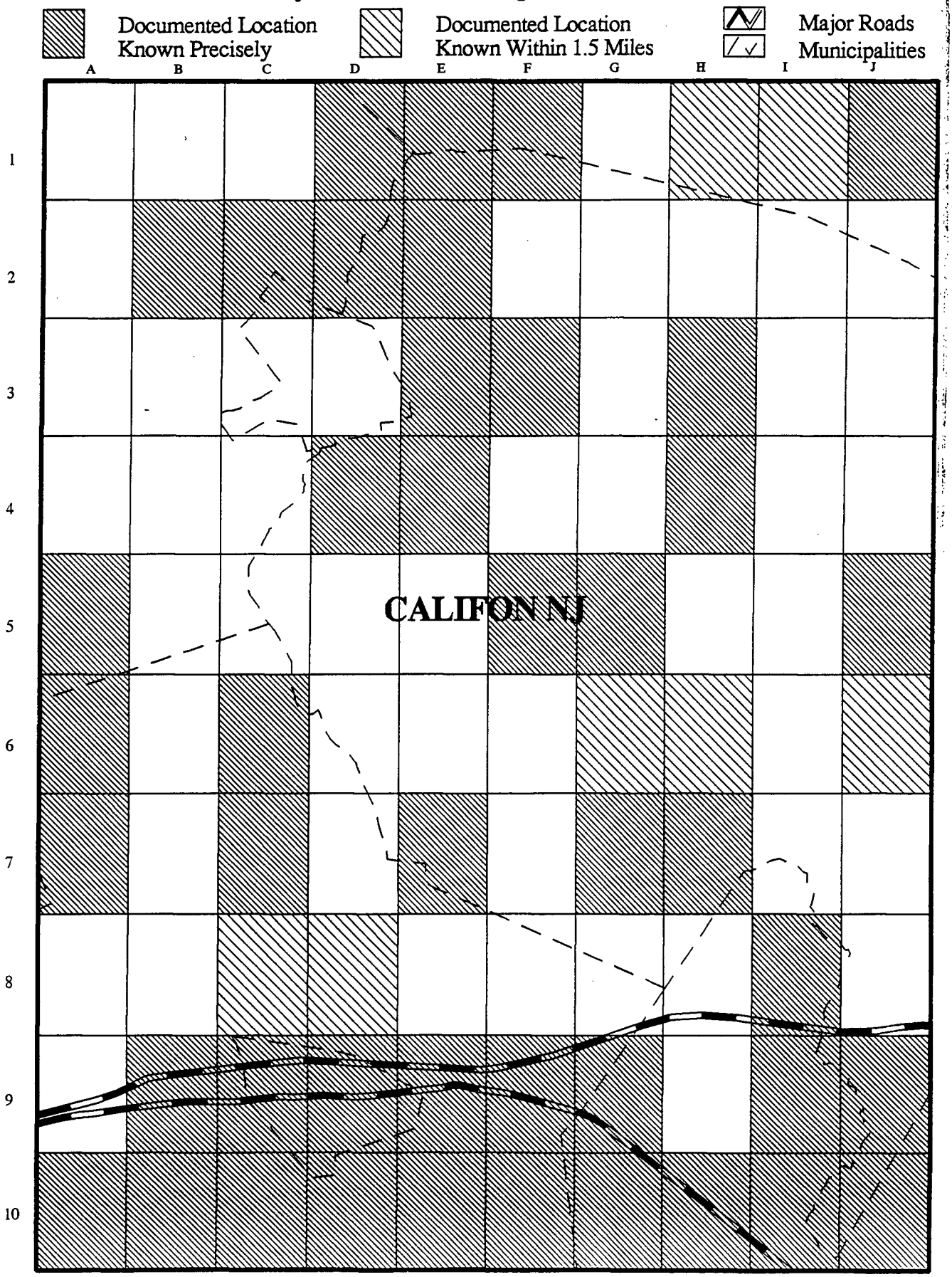
CONTOUR INTERVAL 20 FEET

CALIFON, N.J.

47

Generalized Natural Heritage Index Map

Generalized Locations for Rare and Endangered Elements of Natural Diversity



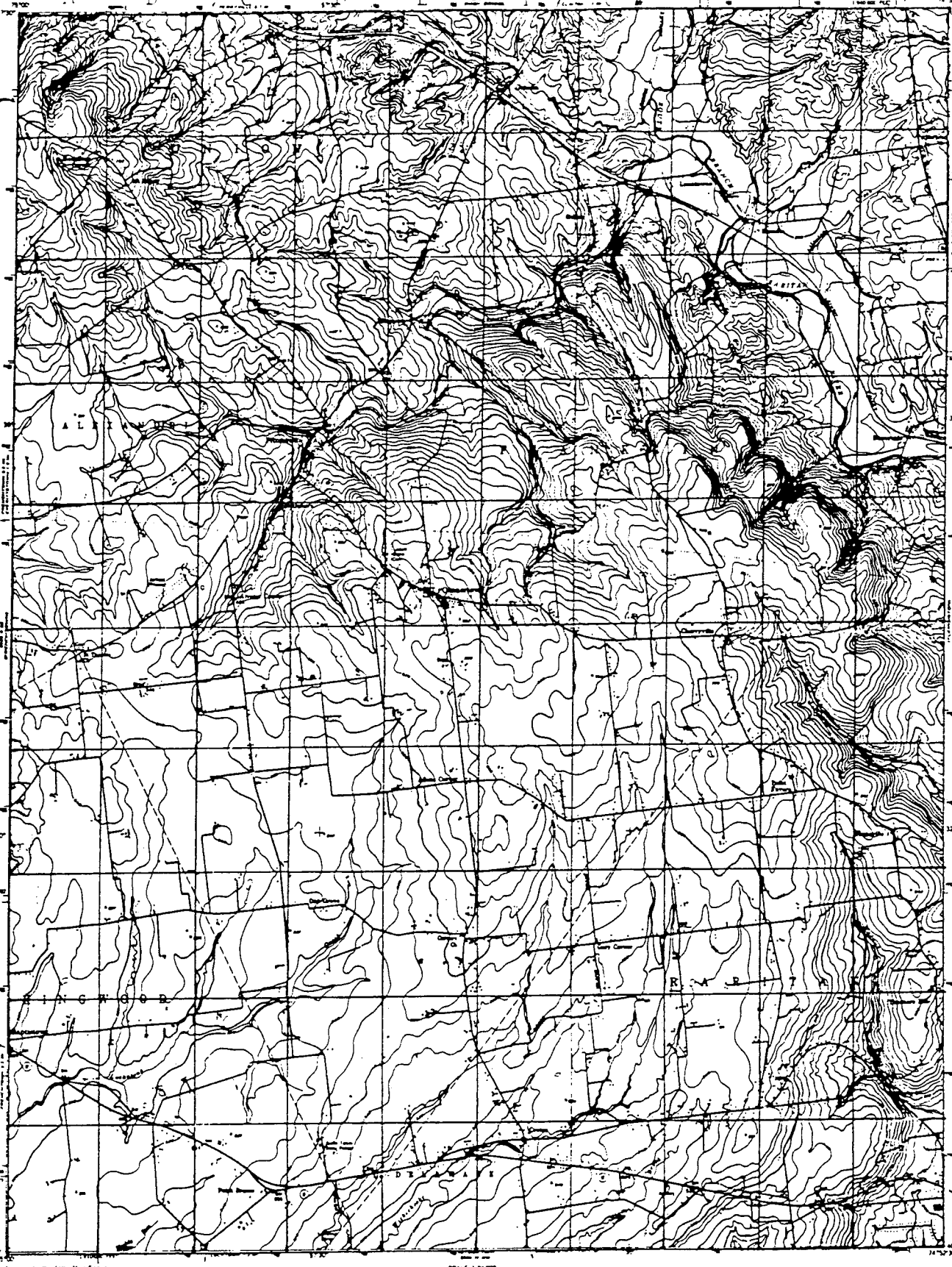
NOTE: This is not a complete map of rare and endangered species habitat for this area. It reflects data on known occurrences compiled as of the above date. It includes both historically and recently documented habitat. Additional occurrences may be found on unsurveyed habitat. For more information, contact the Office of Natural Lands Management, CN404, Trenton, NJ 08625.

APRIL 1998
Updated semiannually

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

PITTSTOWN QUADRANGLE
NEW JERSEY—HUNTERDON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped by the Army Map Service
Edited and published by the Geological Survey

Control by USC&GS, USGS, and New Jersey Geodetic Survey

Topography from aerial photographs by photogrammetric methods

Polyconic projection. 1927 North American datum
10,000-foot grid based on New Jersey coordinate system
UTM grid ticks, zone 18, shown in blue

Revisions shown in purple compiled by the Geological Survey from aerial photographs taken 1976. This information not to field checked

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20242
A FULLER INFORMATION REGARDING MAPS AND INDEXES TO MAPS, CONTACT THE ABOVE

ROAD CLASSIFICATION

Primary ——— Light duty ———
Secondary ——— Unimproved dirt - - - - -

State Route

PITTSTOWN, N. J.

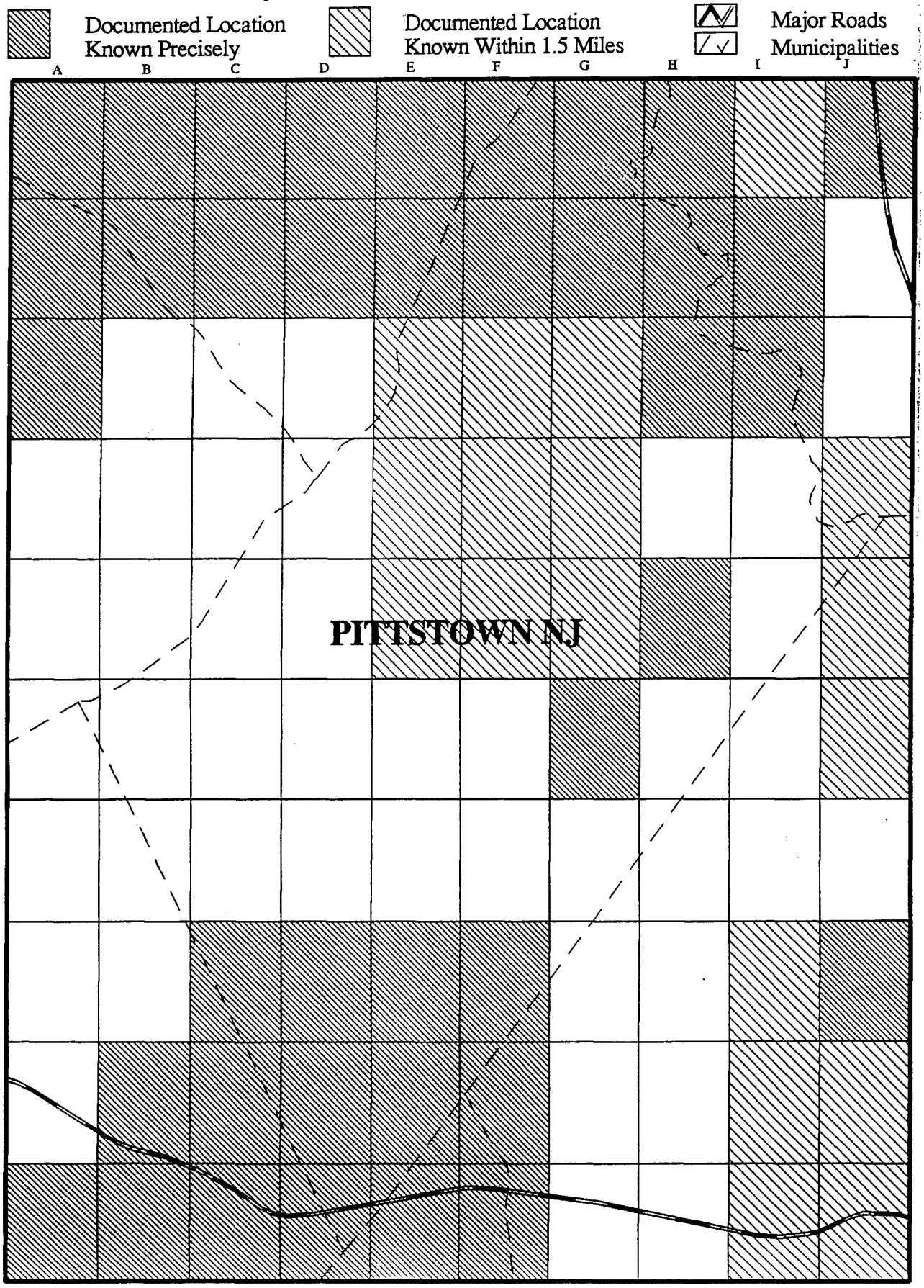
1954

PHOTOREVISED 1976

57

Generalized Natural Heritage Index Map

Generalized Locations for Rare and Endangered Elements of Natural Diversity



NOTE: This is not a complete map of rare and endangered species habitat for this area. It reflects data on known occurrences compiled as of the above date. It includes both historically and recently documented habitat. Additional occurrences may be found on unsurveyed habitat. For more information, contact the Office of Natural Lands Management, CN404, Trenton, NJ 08625.

APRIL 1998
Updated semiannually

EXPLANATIONS OF CODES USED IN NATURAL HERITAGE REPORTS

FEDERAL STATUS CODES

The following U.S. Fish and Wildlife Service categories and their definitions of endangered and threatened plants and animals have been modified from the U.S. Fish and Wildlife Service (F.R. Vol. 50 No. 188; Vol. 61, No. 40; F.R. 50 CFR Part 17). Federal Status codes reported for species follow the most recent listing.

LE Taxa formally listed as endangered.

LT Taxa formally listed as threatened.

PE Taxa already proposed to be formally listed as endangered.

PT Taxa already proposed to be formally listed as threatened.

C Taxa for which the Service currently has on file sufficient information on biological vulnerability and threat(s) to support proposals to list them as endangered or threatened species.

S/A Similarity of appearance species.

STATE STATUS CODES

Two animal lists provide state status codes after the Endangered and Nongame Species Conservation Act of 1973 (NSSA 23:2A-13 et. seq.): the list of endangered species (N.J.A.C. 7:25-4.13) and the list defining status of indigenous, nongame wildlife species of New Jersey (N.J.A.C. 7:25-4.17(a)). The status of animal species is determined by the Nongame and Endangered Species Program (ENSP). The state status codes and definitions provided reflect the most recent lists that were revised in the New Jersey Register, Monday, June 3, 1991.

D Declining species-a species which has exhibited a continued decline in population numbers over the years.

E Endangered species-an endangered species is one whose prospects for survival within the state are in immediate danger due to one or many factors - a loss of habitat, over exploitation, predation, competition, disease. An endangered species requires immediate assistance or extinction will probably follow.

EX Extirpated species-a species that formerly occurred in New Jersey, but is not now known to exist within the state.

I Introduced species-a species not native to New Jersey that could not have established itself here without the assistance of man.

INC Increasing species-a species whose population has exhibited a significant increase, beyond the normal range of its life cycle, over a long term period.

T Threatened species-a species that may become endangered if conditions surrounding the species begin to or continue to deteriorate.

P Peripheral species-a species whose occurrence in New Jersey is at the extreme edge of its present natural range.

S Stable species-a species whose population is not undergoing any long-term increase/decrease within its natural cycle.

U Undetermined species-a species about which there is not enough information available to determine the status.

Elements so ranked are often restricted to very specialized conditions or habitats and/or restricted to an extremely small geographical area of the state. Also included are elements which were formerly more abundant, but because of habitat destruction or some other critical factor of its biology, they have been demonstrably reduced in abundance. In essence, these are elements for which, even with intensive searching, sizable additional occurrences are unlikely to be discovered.

S2 Imperiled in New Jersey because of rarity (6 to 20 occurrences). Historically many of these elements may have been more frequent but are now known from very few extant occurrences, primarily because of habitat destruction. Diligent searching may yield additional occurrences.

S3 Rare in state with 21 to 100 occurrences (plant species in this category have only 21 to 50 occurrences). Includes elements which are widely distributed in the state but with small populations/acreage or elements with restricted distribution, but locally abundant. Not yet imperiled in state but may soon be if current trends continue. Searching often yields additional occurrences.

S4 Apparently secure in state, with many occurrences.

S5 Demonstrably secure in state and essentially ineradicable under present conditions.

SA Accidental in state, including species (usually birds or butterflies) recorded once or twice or only at very great intervals, hundreds or even thousands of miles outside their usual range; a few of these species may even have bred on the one or two occasions they were recorded; examples include European strays or western birds on the East Coast and vice-versa.

SE Elements that are clearly exotic in New Jersey including those taxa not native to North America (introduced taxa) or taxa deliberately or accidentally introduced into the State from other parts of North America (adventive taxa). Taxa ranked SE are not a conservation priority (viable introduced occurrences of G1 or G2 elements may be exceptions).

SH Elements of historical occurrence in New Jersey. Despite some searching of historical occurrences and/or potential habitat, no extant occurrences are known. Since not all of the historical occurrences have been field surveyed, and unsearched potential habitat remains, historically ranked taxa are considered possibly extant, and remain a conservation priority for continued field work.

SP Element has potential to occur in New Jersey, but no occurrences have been reported.

SR Elements reported from New Jersey, but without persuasive documentation which would provide a basis for either accepting or rejecting the report. In some instances documentation may exist, but as of yet, its source or location has not been determined.

SRF Elements erroneously reported from New Jersey, but this error persists in the literature.

SU Elements believed to be in peril but the degree of rarity uncertain. Also included are rare taxa of uncertain taxonomical standing. More information is needed to resolve rank.

SX Elements that have been determined or are presumed to be extirpated from New Jersey. All historical occurrences have been searched and a reasonable search of potential habitat has been completed. Extirpated taxa are not a current conservation priority.

SXC Elements presumed extirpated from New Jersey, but native populations collected from the wild exist in cultivation.

SZ Not of practical conservation concern in New Jersey, because there are no definable occurrences, although the taxon is native and appears regularly in the state. An SZ rank will generally be used for long distance migrants whose occurrences during their migrations are too irregular (in terms of repeated visitation to the same locations), transitory, and dispersed to be reliably identified, mapped and

18 NOV 1999

HUNTERDON COUNTY

RARE SPECIES AND NATURAL COMMUNITIES PRESENTLY RECORDED IN

THE NEW JERSEY NATURAL HERITAGE DATABASE

NAME	COMMON NAME	FEDERAL STATUS	STATE STATUS	REGIONAL STATUS	GRANK	SRANK
*** Vertebrates						
ACCIPITER COOPERII	COOPER'S HAWK		T/T		G5	S3B,S4N
AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW		E		G4	S1B
AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW		T/S		G5	S2B
ASIO OTUS	LONG-EARED OWL		T/T		G5	S2B,S2N
BARTRAMIA LONGICAUDA	UPLAND SANDPIPER		E		G5	S1B
BUTEO LINEATUS	RED-SHOULDERED HAWK		E/T		G5	S1B,S2N
CIRCUS CYANEUS	NORTHERN HARRIER		E/U		G5	S1B,S3N
CISTOTHORUS PLATENSIS	SEDGE WREN		E		G5	S1B
CLEMMYS INSCULPTA	WOOD TURTLE		T		G4	S3
CLEMMYS MUHLENBERGII	BOG TURTLE	LT	E		G3	S2
CROTALUS HORRIDUS HORRIDUS	TIMBER RATTLESNAKE		E		G4T4	S2
DOLICHONYX ORYZIVORUS	BOBOLINK		T/T		G5	S2B
EURYCEA LONGICAUDA LONGICAUDA	LONGTAIL SALAMANDER		T		G5T5	S2
HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	LT	E		G4	S1B,S2N
LYNX RUFUS	BOBCAT		E		G5	S3
MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER		T/T		G5	S2B,S2N
PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW		T/T		G5	S2B,S4N
PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW		S/S		G5	S2B
POOECETES GRAMINEUS	VESPER SPARROW		E		G5	S1B,S2N
STRIX VARIA	BARRED OWL		T/T		G5	S3B
*** Ecosystems						
CAVE AQUATIC COMMUNITY	CAVE AQUATIC COMMUNITY				G4?	S2
CAVE TERRESTRIAL COMMUNITY	CAVE TERRESTRIAL COMMUNITY				G4?	S3
SHALE CLIFF/ROCK OUTCROP COMMUNITY	SHALE CLIFF/ROCK OUTCROP COMMUNITY				G3	S2?
*** Invertebrates						
CICINDELA MARGINIPENNIS	COBBLESTONE TIGER BEETLE				G2G3	S1S2

HUNTERDON COUNTY
RARE SPECIES AND NATURAL COMMUNITIES PRESENTLY RECORDED IN
THE NEW JERSEY NATURAL HERITAGE DATABASE

NAME	COMMON NAME	FEDERAL STATUS	STATE STATUS	REGIONAL STATUS	GRANK	SRANK
CAREX OLIGOCARPA	FEW-FRUITED SEDGE		E		G4	S1
CAREX PALLESCENS	PALE SEDGE				G5	S2
CAREX WILLDENOWII	WILLDENOW'S SEDGE				G5	S2
CASTILLEJA COCCINEA	SCARLET INDIAN PAINTBRUSH				G5	S2
CERCIS CANADENSIS	REDBUD		E		G5	S1
CHEILANTHES LANOSA	HAIRY LIPFERN				G5	S2
CHENOPODIUM SIMPLEX	MAPLE-LEAVED GOOSEFOOT				G5	S2
CRATAEGUS CALPODENDRON	PEAR HAWTHORN		E		G5	S1
CRATAEGUS DODGEI	DODGE'S HAWTHORNE				G4	S2
CRATAEGUS HOLMESIANA	HOLMES' HAWTHORNE				G5	S1
CRATAEGUS SUCCULENTA	FLESHY HAWTHORN		E		G5	S1
CUSCUTA CEPHALANTHI	BUTTON-BUSH DODDER		E		G5	S1
CYNOGLOSSUM VIRGINIANUM VAR VIRGINIANUM	WILD COMFREY				G5T5	S2
CYSTOPTERIS PROTRUSA	LOWLAND BRITTLE FERN				G5	S2
DESMODIUM HUMIFUSUM	TRAILING TICK-TREFOIL		E		G1G2Q	SH
DICENTRA CANADENSIS	SQUIRREL-CORN		E		G5	S1
DRABA REPTANS	CAROLINA WHITLOW-GRASS		E		G5	SH
ELLISIA NYCTELEA	AUNT LUCY		E		G5	S1
ERAGROSTIS FRANKII	FRANK'S LOVEGRASS				G5	S2
HYBANTHUS CONCOLOR	GREEN VIOLET		E		G5	S1
HYDROPHYLLUM CANADENSE	BROAD-LEAVED WATERLEAF		E		G5	S1
HYPERICUM PYRAMIDATUM	GREAT ST. JOHN'S-WORT				G4	S2
ISOTRIA MEDEOLOIDES	SMALL WHORLED POGONIA	LT	E		G2G3	S1
JEFFERSONIA DIPHYLLA	TWINLEAF		E		G5	S1
KUHNIA EUPATORIOIDES	FALSE BONESET		E		G5	S1
LATHYRUS VENOSUS	SMOOTH VEINY PEAVINE		E		G5	SH
LECHEA INTERMEDIA	NARROW-LEAVED PINWEED				G5	S2
LEMNA VALDIVIANA	PALE DUCKWEED		E		G5	S1
LINUM SULCATUM	GROOVED YELLOW FLAX		E		G5	S1

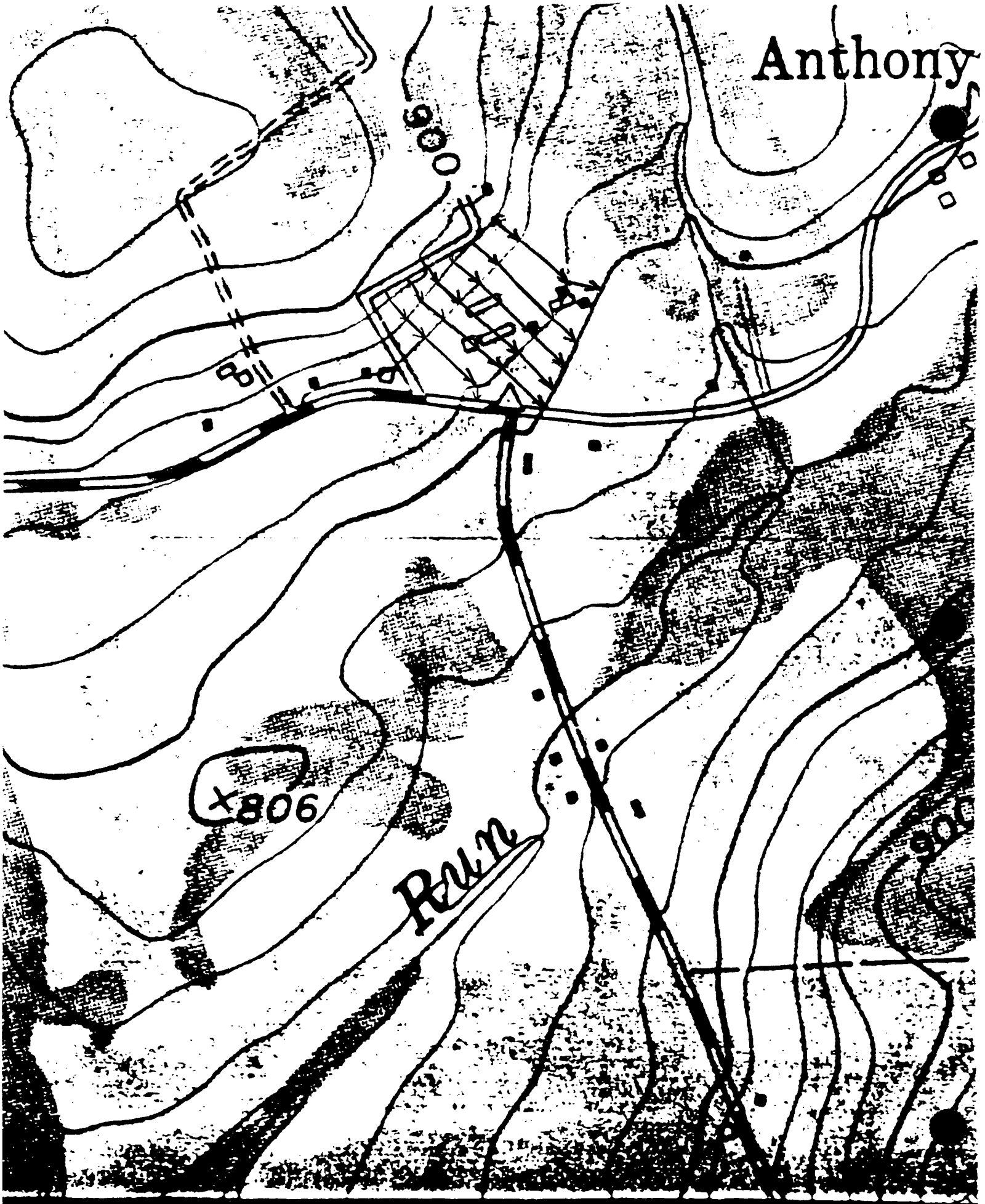
REFERENCE NO. 24

PROJECT NOTE	SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM	
To: Diamond Aerosol File	**Date:** 3/20/00	**Page**: 1 of 1
From: Scott Snyder		
Subject: Waste Source Drainage Area		

START member Scott Snyder calculated the drainage area for waste sources at the Diamond Aerosol site by delineating the drainage area of the site on a USGS topographic map and then overlaying a 1:24,000 scale acreage template and totaling the number of acres.

The drainage area was delineated by drawing flow lines perpendicular to the topographic contours beginning at an upgradient driveway, across the active portion of the site in which the sources are located, ending at the topographic contour immediately downslope of the active portion of the site. The section upgradient of the driveway was excluded because the driveway diverts runoff from this area. Because the exact area of each source is unknown and their distribution across the active portion of the site, the drainage area was estimated to be equal to the that of the entire active portion of the site.

Drainage Area is approximately 10 acres


Anthony
900
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REFERENCE NO. 25

PROJECT NOTE	SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM	
To: Diamond Aerosol File	**Date:** 6/29/00	**Page**: 1 of 1
From: Scott Snyder		
Subject: Analytical Data		

The attachments to this note are the organic and inorganic data packages for surface water and sediment samples collected by Region II START, at the Diamond Aerosol Corporation site, on 13 April 2000. Samples were analyzed for the following parameters: Target Compound List (TCL) [Volatile Organic Compound (VOCs), Semivolatile Organic Compounds (SVOCs), Pesticides, and Polychlorinated Biphenyls (PCBs)] and Target Analyte List (TAL) metals. Organic analyses were performed by American Analytical & Technical Services, Baton Rouge, Louisiana using EPA method CLP OLM 04.1. Inorganic analyses were performed by Liberty Analytical, Cary, North Carolina using EPA method CLP ILM 04.1.

Attachment A - Organic data package provided by American Analytical & Technical Services; including Form Is and data validation documentation.

Attachment B - Inorganic data package provided by Liberty Analytical; including Form Is and data validation documentation.

REFERENCE NO. 25

ATTACHMENT A

RECORD OF COMMUNICATION

REGIONAL SAMPLE CONTROL CENTER

DATE: MAY 9, 2000
SUBJECT: CLP Data Package for Quality Assurance Review
FROM: RSCC / ESAT
TO: George Karras, Hazardous Waste Support Section

MAY 25 2000

Attached is the following ORGANIC Data Package to be reviewed for Quality Assurance

SITE DIAMOND AEROSOL
CASE# 27965
CONTRACTOR START W
#SAMPLES MATRIX
PHASE SIP
8 SOIL
LAB AATSLA
9 WATER
TURN-AROUND-TIME 21 DAYS
FRACTION 16 FULL TCL & ONE VOA ONLY
CERCLIS ID # NJD049644438
SITE SPILL # ZZ

REGION II RSCC DATA TRANSFER LOG

Relinquished By		Received By	
Signature	Date/Time	Signature	Date/Time
		John Bulich	5-5-00
John Bulich	5-9-00	Hanif Shaikh	5/12/00
Hanif Shaikh	5/24/00	G. Karras	5/24/00
G Karras	5/25/00	Janet Trautter	5/25/00

(over for instructions) revised 3/99

CLP DATA ASSESSMENT

Functional Guidelines for Evaluating Organic Analyses

CASE No: 27965 SDG No: BO1HY LABORATORY: AATSLA

SITE: Diamond Aerosol Samples: 8 Soil & 9 Water

Analysis: 16 Samples for Full TCL & 1 Trip Blank for VOA only

DATA ASSESSMENT

The current SOP No. HW-6 (Revision 11), June 1996 for CLP Organics Review and Preliminary Review has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: [signature] Date: ~~3/01/99~~ 5/25/00

Verified By: [signature] Date: 5/25/00

CLP DATA ASSESSMENT

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J" or unusable, "R", if the holding times are grossly exceeded.

VOA: Technical and Contractual Holding Times were met for all samples.
BNA: Technical and contractual Holding Times were met for all samples.
Pest./PCBs: Technical and contractual Holding Times were met for all samples.

Note: The collection date and time was missing from tthe COC/Traffic Report Form. The sampling trip report received from the sampler, however, showed that all samples were collected on April 13, 2000, shipped on the same day and were received at the laboratory on April 14, 2000. It was, therefore, concluded that the Holding Times for the analysis of all Fractions were met.

2. SURROGATES:

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

VOA: No Problems

BNA: No Problems

Pest./PCBs: No results were qualified.

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

VOA: No Problems
BNA: No qualification based on MS/MSD data
Pest./PCBs: No Problems

4. BLANK CONTAMINATION:

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

HOLDING TIME CRITERIA

Volatile

Preserved	Primary	Expanded
Water	14	28
Soil	14	28

	Aromatic		Non-aromatic	
Unpreserved	Primary	Expanded	Primary	Expanded
Water	7	28	14	28
Soil	10	28	10	28

Semivolatile

	Extraction		Analysis	
	Primary	Expanded	Primary	Expanded
Water	7	28	40	60
Soil	7	28	40	60

Pesticide

	Extraction		Analysis	
	Primary	Expanded	Primary	Expanded
Water	7	28	40	60
Soil	7	28	40	60

DC-1: The sampling date was not found for the following volatile samples. This information is located on the Traffic Report and must be entered manually by the user. All holding times have been calculated using validated time of sample receipt (VTSR). All holding times are technical. No flags for hits and non-detects.

B01J3, B01J4, B01J5, B023P

DC-73: The sampling date was not found for the following semivolatile samples. This information is located on the Traffic Report and must be entered manually by the user. All holding times have been calculated using validated time of sample receipt (VTSR).

Holding times are technical. No flags for hits and non-detects.

B01J3, B01J4, B01J5, B023P

DC-160: The sampling date was not found for the following pesticide samples. This information is located on the Traffic Report and must be entered manually by the user. All holding times have been calculated using validated time of sample receipt (VTSR). All holding times are technical. No flags for hits and non-detects.

B01J3, B01J4, B01J5, B023P

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

SMC/SURROGATE CRITERIA

Volatile

Percent Recovery Limits

	--- Water ---		---- Soil ---	
	Lower	Upper	Lower	Upper
Toluene-d8	88.0	110.0	84.0	138.0
Bromofluorobenzene	86.0	115.0	59.0	113.0
1,2-Dichloroethane-d4	76.0	114.0	70.0	121.0

Semivolatile

Percent Recovery Limits

	--- Water ---		---- Soil ---	
	Lower	Upper	Lower	Upper
Nitrobenzene-d5	35.0	114.0	23.0	120.0
2-Fluorobiphenyl	43.0	116.0	30.0	115.0
Terphenyl-d14	33.0	141.0	18.0	137.0
Phenol-d5	10.0	110.0	24.0	113.0
2-Fluorophenol	21.0	110.0	25.0	121.0
2,4,6-Tribromophenol	10.0	123.0	19.0	122.0
2-Chlorophenol-d4	33.0	110.0	20.0	130.0
1,2-Dichlorobenzene-d4	16.0	110.0	20.0	130.0

Pesticide

Percent Recovery Limits

	--- Water ---		---- Soil ---	
	Lower	Upper	Lower	Upper
Tetrachloro-m-xylene	30.0	150.0	30.0	150.0
Decachlorobiphenyl	30.0	150.0	30.0	150.0

DC-177: The following pesticide samples have surrogate percent recoveries

outside the lower limit of the criteria window, but > 10%. Hits & nondetects are qualified "J" only for the same surr. on both coulmns with no interference. Use professional judgement when interf. is detected. Remove "J" when 1 surr. on 1 column is out.

B023K

Matrix Spike Report

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

MATRIX SPIKE CRITERIA

Volatile

Percent Recovery Limits & RPD

	Water			Soil		
	Lower	Upper	RPD	Lower	Upper	RPD
1,1-Dichloroethene	61.0	145.0	14.0	59.0	172.0	22.0
Benzene	76.0	127.0	11.0	66.0	142.0	21.0
Trichloroethene	71.0	120.0	14.0	62.0	137.0	24.0
Toluene	76.0	125.0	13.0	59.0	139.0	21.0
Chlorobenzene	75.0	130.0	13.0	60.0	133.0	21.0

Semivolatile

Percent Recovery Limits & RPD

	Water			Soil		
	Lower	Upper	RPD	Lower	Upper	RPD
Phenol	12.0	110.0	42.0	26.0	90.0	35.0
2-Chlorophenol	27.0	123.0	40.0	25.0	102.0	50.0
N-Nitroso-di-n-propylamine	41.0	116.0	38.0	41.0	126.0	38.0
4-Chloro-3-methylphenol	23.0	97.0	42.0	26.0	103.0	33.0
Acenaphthene	46.0	118.0	31.0	31.0	137.0	19.0
4-Nitrophenol	10.0	80.0	50.0	11.0	114.0	50.0
2,4-Dinitrotoluene	24.0	96.0	38.0	28.0	89.0	47.0
Pentachlorophenol	9.0	103.0	50.0	17.0	109.0	47.0
Pyrene	26.0	127.0	31.0	35.0	142.0	36.0

Pesticide

Percent Recovery Limits & RPD

	Water			Soil		
	Lower	Upper	RPD	Lower	Upper	RPD
gamma-BHC (Lindane)	56.0	123.0	15.0	46.0	127.0	50.0

Heptachlor	40.0	131.0	20.0	35.0	130.0	31.0
Aldrin	40.0	120.0	22.0	34.0	132.0	43.0
Dieldrin	52.0	126.0	18.0	31.0	134.0	38.0
Endrin	56.0	121.0	21.0	42.0	139.0	45.0
4,4'-DDT	38.0	127.0	27.0	23.0	134.0	50.0

DC-51: The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria.
Hits and non-detects in the unspiked sample are qualified based on professional judgement.

B023CMS
4-Nitrophenol

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U" The following analytes in the sample shown were qualified with "U" for these reasons:

A) **Method blank contamination:**

VOA: Method blank VBLK1 is found to be contaminated with acetone and cyclohexane at concentratrion 7ug/L and 1ug/L , respectively. The acetone results of the associated samples greater than the CRQL were flagged "U". One sample had cyclohexane result less than the CRQL, which was elevated to the CRQL and flagged "U".

See attached CADRE Laboratory Blanks Report for a list of samples qualified.

BNA: Method blanks , SBLKFB and SBLKFC, were contaminated with bis(2-ethylhexyl phthalate) at concentrations of 2 ug/L and 50 ug/L, respectively.

See attached CADRE Laboratory Blank Report for a list samples qualified.

Pest./PCBs: Method blank PBLK1 was contaminated with methoxychlor at 8.2 ug/L. Associated sample results less than the CRQL were elevated to the CRQL and flagged "U". The results greater than the CRQL have been flagged "U".

See CADRE Laboratory Blank Report for a list of samples qualified.

B) **Field or rinse blank contamination:**

VOA: No problems

BNA: Rinse blank B023T was found to be contaminated with Di-n- butylphthalate and butylbenzylthalate at concentration 2 ug/L and 4 ug/L, respectively.

See attached CADRE Field QC Report for a list samples qualifierd.

Pest./PCBs: No Problems

C) **Trip blank contamination:**

VOA: Trip blank (B023W) was found to be contaminated with acetone at 2 ug/L. The Acetone results of the following samples were elevated to the CRQL and flagged "U".

B023F, B023G, B023N

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

LABORATORY BLANKS CRITERIA

Volatile

Method Blank Contamination Threshold Multipliers

	First	Expanded
Common contaminant compounds	10.00	10.00
Other compounds	5.00	5.00

Semivolatile

Method Blank Contamination Threshold Multipliers

	First	Expanded
Common contaminant compounds	10.00	10.00
Other compounds	5.00	5.00

Pesticide

Method Blank Contamination Threshold Multipliers

	First	Expanded
All compounds	5.00	5.00

DC-31: The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration.
Hits are qualified "U" and non-detects are not flagged.

B01HY
Acetone

B01HYMS
Acetone

B01HYMSD

Acetone

B01HZ
Acetone

B01J0
Acetone

B01J1
Acetone

B01J2
Acetone

B01J3
Acetone

B01J4
Acetone

B01J5
Acetone

DC-200: The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.
Hits are qualified "U" and non-detects are not flagged.

B01J4
Cyclohexane

DC-206: The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.
Hits are qualified "U" and non-detects are not flagged.

B01HY
bis(2-Ethylhexyl)phthalate

B01HYMS
bis(2-Ethylhexyl)phthalate

B01HYMSD

bis(2-Ethylhexyl)phthalate

B01HZ
bis(2-Ethylhexyl)phthalate

B01J1
bis(2-Ethylhexyl)phthalate

B01J2
bis(2-Ethylhexyl)phthalate

B01J3
bis(2-Ethylhexyl)phthalate

B01J4
bis(2-Ethylhexyl)phthalate

B01J5
bis(2-Ethylhexyl)phthalate

B023CMSD
bis(2-Ethylhexyl)phthalate

B023F
bis(2-Ethylhexyl)phthalate

B023G
bis(2-Ethylhexyl)phthalate

B023K
bis(2-Ethylhexyl)phthalate

B023N
bis(2-Ethylhexyl)phthalate

DC-234: The following pesticide samples have analyte concentrations reported above the CRQL and less than or equal to five times (5X) the associated method blank concentration.
Hits are qualified "U" and non-detects are not flagged.

B01J3
Methoxychlor

DC-236: The following pesticide samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X)

the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.
Hits are qualified "U" and non-detects are not flagged.

B01HY
Methoxychlor

B01HZ
Methoxychlor

B01J0
Methoxychlor

B01J2
Methoxychlor

B01J5
Methoxychlor

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

DC-136: The following volatile samples are affected by contamination in their corresponding trip blank for the indicated analytes. Hits are qualified "U" and non-detects are not flagged.

B01HY
Acetone

B01HYMS
Acetone

B01HYMSD
Acetone

B01HZ
Acetone

B01J0
Acetone

B01J3
Acetone

B01J4
Acetone

B01J5
Acetone

B023CMS
Acetone

B023CMSD
Acetone

B023F
Acetone

B023G
Acetone

B023N
Acetone

DC-146: The following semivolatile samples are affected by contamination in their corresponding field blank for the indicated analytes. Hits are qualified "U" and non-detects are not flagged.

Di-n-butylphthalate
B01HY, B01HYMSD, B01HZ, B01J2, B01J4, B01J5
B023CMSD, B023F, B023K, B023N

D) **Storage blank contamination:**

VOA: No contamination was found in the Storage Blank.

E) **TIC**

VOA: The laboratory flagged known chemical compounds with "JN" and unknown compunds with "J".

An "Unknown" TIC in sample B01HY was rejected as the method blank VBLKAL had an unknown TIC with same retention time.

BNA: The laboratory flagged known chemical compounds with "JN" and unknown compounds with "J".

A number of unknown as well as chemically known TIC were rejected in the following samples as these compounds were found in method blanks SBLKFB and SBLKFC with the same or comparable retention times:

B01HY, B01HZ, B01J0, B01J1, B01J2, B01J3, B023G

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene and for semi-volatiles Decafluorotriphenylphosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable "R".

VOA: No problems

BNA: No Problems

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving

satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be > 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

%Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and % D must be < 25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If % RSD and % D grossly exceed QC criteria, non-detects data may be qualified "R".

For the PEST./PCB fraction, %RSD should not exceed 20% for all analytes except alpha and delta BHC (25) and the two surrogates (30%).

VOA: The initial calibration RSD for acetone (36.8%) exceeded the acceptance limits ± 30%. Associated samples were flagged (J) as estimated.

See attached CADRE Calibration Report for a list of samples qualified.

BNA: The Continuing Calibration Percent Differenc (%D) for the following six compunds exceeded the acceptance limits ± 25% . All the associated sample results were qualified ass estimated: Benzyldehyde, 4-chloroaniline, hexachlorobutadiene, 2-4 dinitrophenol. 4- nitrophenol,4-6 -dinitro –methylphenol

See attached CADRE Calibration Report for a list of samples qualified.

Pest./PCBS: Methoxychlor and endrin aldehyde were found to have RSD greater than 20% in a three point initial calibration. Hit were qualified "J" and non detects were qualified "UJ".

See CADRE Calibration Report for a list of samples qualified.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

VOA: No Problems
BNA: No Problems

8. COMPOUND IDENTIFICATION:

A) Volatile and Semi-Volatile Fractions:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No Problems

B) Pesticide Fraction:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10 ng/ml in the final sample extract.

Percent difference (%D) for a number of compounds between the two columns exceeded the the acceptance criteria specified in the Region 2 validation SOP. These compounds were flagged as follows:

Calibration Report

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

CALIBRATION CRITERIA

Volatile

	Primary	Expanded
Minimum RRF	0.05	0.05
Maximum %RSD (initial calibration)	30	90
Maximum %D (continuing calibration)	25	90
Calibration time period	12	

Semivolatile

	Primary	Expanded
Minimum RRF	0.05	0.05
Maximum %RSD (initial calibration)	30	90
Maximum %D (continuing calibration)	25	90
Calibration time period	12	

Pesticide

Maximum %RSD (initial calibration)	- TCL analytes	20
	- surrogates	30
Maximum RPD (continuing calibration)		25
INDA/INDB percent resolution		90
Continuing calibration sequence time		12

DC-21: The following volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside primary criteria.
Hits are qualified "J" and non-detects are not flagged .

B01HY
Acetone

B01HYMS
Acetone

B01HYMSD
Acetone

B01HZ

Acetone

B01J0
Acetone

B01J1
Acetone

B01J2
Acetone

B01J3
Acetone

B01J4
Acetone

B01J5
Acetone

VBLKAL
Acetone

DC-100: The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

B01HY
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B01HYMS
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B01HYMSD
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B01HZ
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B01J0
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol

4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B01J1
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B01J2
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B01J3
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B01J4
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B01J5
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B023C
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B023CMS
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B023CMSD
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B023F
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B023G
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B023H
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B023K

Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B023N
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B023P
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

B023T
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

SBLKFB
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

SBLKFC
Benzaldehyde, 4-Chloroaniline, Hexachlorobutadiene, 2,4-Dinitrophenol
4-Nitrophenol, 4,6-Dinitro-2-methylphenol

DC-189: The following pesticide samples are associated with a three point initial calibration in which the % RSD of calibration factors exceeds criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

B01HY
Methoxychlor, Endrin aldehyde

B01HYMS
Methoxychlor, Endrin aldehyde

B01HYMSD
Methoxychlor, Endrin aldehyde

B01HZ
Methoxychlor, Endrin aldehyde

B01J0
Methoxychlor, Endrin aldehyde

B01J1
Methoxychlor, Endrin aldehyde

B01J2
Methoxychlor, Endrin aldehyde

B01J3
Methoxychlor, Endrin aldehyde

B01J4
Methoxychlor, Endrin aldehyde

B01J5
Methoxychlor, Endrin aldehyde

B023C
Methoxychlor, Endrin aldehyde

B023CMS
Methoxychlor, Endrin aldehyde

B023CMSD
Methoxychlor, Endrin aldehyde

B023F
Methoxychlor, Endrin aldehyde

B023G
Methoxychlor, Endrin aldehyde

B023H
Methoxychlor, Endrin aldehyde

B023K
Methoxychlor, Endrin aldehyde

B023N
Methoxychlor, Endrin aldehyde

B023P
Methoxychlor, Endrin aldehyde

B023T
Methoxychlor, Endrin aldehyde

PBLK1
Methoxychlor, Endrin aldehyde

PBLK2
Methoxychlor, Endrin aldehyde

PBLK3
Methoxychlor, Endrin aldehyde

DC-197: The following pesticide samples are not qualified for continuing calibration because of missing continuing calibration information.
Visual inspection of the data is required.

B01HY, B01HYMS, B01HYMSD, B01HZ, B01J0, B01J1
B01J2, B01J3, B01J4, B01J5, B023C, B023CMS
B023CMSD, B023F, B023G, B023H, B023K, B023N
B023P, B023T, PBLK1, PBLK2, PBLK3

DC-232: The following pesticide samples are associated with a three point initial calibration in which the % RSD of calibration factors for a surrogate compound exceeded criteria.
Hits and non-detects are not flagged.

B01HY, B01HYMS, B01HYMSD, B01HZ, B01J0, B01J1
B01J2, B01J3, B01J4, B01J5, B023C, B023CMS
B023CMSD, B023F, B023G, B023H, B023K, B023N
B023P, B023T, PBLK1, PBLK2, PBLK3

Instrument Performance Check Report

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

The complete primary criteria for BFB are as follows:

Bromofluorobenzene (BFB)

m/z	ION ABUNDANCE CRITERIA (Volatile)
50	8.0 - 40.0% of m/z 95
75	30.0 - 66.0% of m/z 95
95	base peak, 100.0% relative abundance
96	5.0 - 9.0% of m/z 95
173	less than 2.0% of m/z 174
174	50.0 - 120.0% of m/z 95
175	4.0 - 9.0% of m/z 174
176	93.0 - 101.0% of m/z 174
177	5.0 - 9.0% of m/z 176

The complete primary criteria for DFTPP are as follows:

Decafluorotriphenylphosphine (DFTPP)

m/z	ION ABUNDANCE CRITERIA (Semivolatile)
51	30.0 - 80.0% of m/z 198
68	less than 2.0% of m/z 69
69	present
70	less than 2.0% of m/z 69
127	25.0 - 75.0% of m/z 198
197	less than 1.0% of m/z 198
198	base peak, 100.0% relative abundance
199	5.0 - 9.0% of m/z 198
275	10.0 - 30.0% of m/z 198
365	greater than 0.75% of m/z 198
441	present, but less than m/z 443
442	40.0 - 110.0% of m/z 198
443	15.0 - 24.0% of m/z 442

No problems found for this qualification.

Internal Standards Report

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

INTERNAL STANDARD CRITERIA

Volatile

Retention Time & Area Count Limits

	-- Primary --		- Expanded --	
	Lower	Upper	Lower	Upper
Retention time	- 0.5	+ 0.5	- 0.5	+ 0.5
Area count	/ 2	* 2	/ 4	* 4

Semivolatile

Retention Time & Area Count Limits

	-- Primary --		- Expanded --	
	Lower	Upper	Lower	Upper
Retention time	- 0.5	+ 0.5	- 0.5	+ 0.5
Area count	/ 2	* 2	/ 4	* 4

No problems found for this qualification.

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

SYSTEM PERFORMANCE CRITERIA

Resolution & Breakdown Limits

RESC percent resolution	60.00
PEM percent resolution	90.00
4,4'-DDT percent breakdown	20.00
Endrin percent breakdown	20.00
Combined percent breakdown	30.00

DC-211: The following pesticide samples had no associated continuing PEM.
Visual inspection of the data is required.

B01HYMS, B01HYMSD, PBLK3

J ------> Metoxychlor ---------> B01HZ, B01J3

JN -------> Methoxychlor --------> B01J0

R --------> 4,4'-DDE ----------> B01J1

J ---------> 4,4' DDE ----------> B01J2

R ---------> Delta -BHC ---------> B01J2

R ----------->Heptachlor ----------> B01J4

R ----------->Methoxychlor --------->B01J5

CLP DATA ASSESSMENT

J----------> Heptachlor ----------> B01J5

R ----------> Delta- BHC ----------> B01HYMS

J ----------> Gamma-BHC, Heptachlor, Aldrin, Dieldrin ----------> B01HYMS

R ----------> Delta-BHC, gamma chlorodane ----------> B01HYMSD

J ----------> Gamma-BHC, heptachlor, aldrin, endrin, 4,4'-DDT -------> B01HYMSD

9. CONTRACT PROBLEMS NON-COMPLIANCE:

10. FIELD DOCUMENTATION:

11. Other PROBLEMS:

Sample B01J4 had 57% moisture content, which exceeded primary criteria for all three fractions (VOA, BNA & Pest./PCBs). Hits were flagged "J" and non-detects were qualified

Quantitation Limit Report

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

CONTRACT REQUIRED SAMPLE QUANTITY

	Water	Low Soil	Med Soil
VOA	5.0 (ML)	5.0 (G)	4.0 (G)
BNA	1000.0 (ML)	30.0 (G)	1.0 (G)
PES	1000.0 (ML)	30.0 (G)	

DC-45: The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

B01HY
Methylene Chloride

B01HYMS
Methylene Chloride

B01HYMSD
Methylene Chloride

B01HZ
Methylene Chloride

B01J0
Methylene Chloride

B01J1
Methylene Chloride , Tetrachloroethene

B01J2
Methylene Chloride

B01J3
Methylene Chloride

B01J4
Methylene Chloride , Cyclohexane , Tetrachloroethene

B01J5
Methylene Chloride

B023CMS
Acetone , Methylene Chloride

B023CMSD
Acetone , Methylene Chloride

B023F
Acetone

B023G
Acetone

B023N
Acetone

B023W
Acetone

VBLKAL
Acetone , Cyclohexane

VBLKAM
Methylcyclohexane

DC-110: The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

B01HY
Di-n-butylphthalate, Fluoranthene, Pyrene, bis(2-Ethylhexyl)phthalate

B01HYMS
Pentachlorophenol, bis(2-Ethylhexyl)phthalate

B01HYMSD
Pentachlorophenol, Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate

B01HZ
Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate

B01J0
Benzaldehyde

B01J1
Benzaldehyde, bis(2-Ethylhexyl)phthalate

B01J2
Benzaldehyde, Di-n-butylphthalate, Pyrene, bis(2-Ethylhexyl)phthalate

B01J3
Benzaldehyde, bis(2-Ethylhexyl)phthalate

B01J4
Benzaldehyde, Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate

B01J5
Benzaldehyde, Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate

B023CMSD
Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate

B023F
Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate

B023G
bis(2-Ethylhexyl)phthalate

B023K
Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate

B023N
Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate

B023T
Di-n-butylphthalate, Butylbenzylphthalate

SBLKFB
bis(2-Ethylhexyl)phthalate

SBLKFC
bis(2-Ethylhexyl)phthalate

DC-158: The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

B01HY
Methoxychlor

B01HYMS
delta-BHC, 4,4'-DDE

B01HYMSD
delta-BHC, 4,4'-DDE, gamma-Chlordane

B01HZ
Methoxychlor

B01J0
4,4'-DDE, Methoxychlor

B01J1
4,4'-DDE

B01J2
delta-BHC, 4,4'-DDE, Methoxychlor

B01J3
4,4'-DDE

B01J4
Heptachlor

B01J5
Heptachlor, Methoxychlor

PBLK1
Methoxychlor

DC-422: The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits > CRQL are flagged "J". Or: if %D is > 50% and value is < CRQL, sample result is elevated to the CRQL and qualified "U".

B01HYMS
gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin

B01HYMSD
gamma-BHC (Lindane), Heptachlor, Aldrin, Endrin
4,4'-DDT

B01HZ
Methoxychlor

B01J2
4,4'-DDE

B01J3
Methoxychlor

B01J5
Heptachlor

DC-423: The following pesticide samples have analytes for which the percent difference between column results exceeds expanded criteria. Hits > CRQL are flagged "NJ"; or "R" when %D >100; or "NJ" when %D is between 100-200 (interference detected). Hits < CRQL are elevated to the CRQL and qualified "U".

B01HYMS
delta-BHC

B01HYMSD
delta-BHC, gamma-Chlordane

B01J0
Methoxychlor

B01J1
4,4'-DDE

B01J2
delta-BHC

B01J4
Heptachlor

B01J5
Methoxychlor

Percent Moisture Report

SDG NO: B01HY
CASE NO: 27965

LABORATORY: AATSLA
AGENCY INPUT FILE: B01HY.ASF

PERCENT MOISTURE LIMITS

	Primary	Expanded
VOA	50%	90%
BNA	50%	90%
PES	50%	90%

DC-126: Percent moisture content of the following volatile soil samples exceeds primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

B01J4

DC-128: Percent moisture content of the following semivolatile soil samples exceeds primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

B01J4

DC-184: Percent moisture content of the following pesticide soil samples exceeds primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

B01J4

"UJ".

12. This package contains reextractions, reanalyses or dilutions. Upon reviewing the QA results, the following Form 1(s) are identified to not be used.

DPO: [ ]ACTION [X]FYI REGION II

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE/SAS NO.: 27965 LABORATORY: AATSLA

SDG NO.: B01HY DATA USER: EPA Region II

SOW: OLMO4.2 REVIEW COMPLETION DATE: 5/23/00

NO. OF SAMPLES: 8 Soil & 9 WATER including 1Trip and 1 rinse blank

REVIEWER: [X]DESA [ ] ESAT [ ] OTHER, CONTRACTOR

QC ITEM	VOA	BNA	PEST
HOLDING TIMES	O	O	O
GC-MS PERFORMANCE	O	O	O
INITIAL CALIBRATIONS	O	M	M
CONTINUING CALIBRATIONS	O	M	M
FIELD BLANKS(F = N/A)	O	O	O
LABORATORY BLANKS	O	O	O
SURROGATES	O	O	O
MATRIX SPIKE/DUPLICATES	O	O	O
QC SAMPLES(LCS, PVS)	O	O	O
INTERNAL STANDARDS	O	O	O
COMPOUND IDENTIFICATION	O	O	X
COMPOUND QUANTITATION	O	O	O
SYSTEM PERFORMANCE	O	O	O
OVERALL ASSESSMENT	O	O	O

O - No problems or minor problems that do not affect data usability.
X - No more than about 5% of the data points are qualified as either estimated or unusable.
M - More than about 5% of the data points are qualified as either estimated or unusable.
Z - More than about 5% of the data points are qualified as unusable.

DPO ACTION ITEMS:

AREAS OF CONCERNS:

DATA REJECTION SUMMARY

Type of Review: Organic Date:5/23/00 CASE No. 27965

Site Name:Diamond Aerosol Lab Name: AATSLA

Reviewer's Initials: HS Number of Samples: 8 Soil & 9 Water

Analytes Rejected Due To Exceeding Review Criteria For:

No. of Compounds/No. of Fractions(Samples)

	Surrog ates	Holding Times	Calibr a-tion	Contam-ination	ID	Internal Standard s	% Moistu re	Total # Sample s	Total # Rej Total # in
VOA(48)	0	0	0	0	0	0	0	17	0 / 816= 0.
ACID(14)	0	0	0	0	0	0	0	16	0 /238= 0.0
B/N(51)	0	0	0	0	0	0	0	16	0/ 816=0.0
PEST(21)	0	0	0	0	5	0	0	16	5/336= 1.5
PCB(7)	0	0	0	0	0	0	0	16	0 /112= 0.0

Note: Asterisk * indicates additional exceedance review criteria.

Analytes Estimated Due To Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surroga tes	Holding Times	Calibra-tion	Contam-ination	ID	Internal Standards	% Moistur	No. of Samp les	Total # Sampl
VOA(48)	0	0	7	0	O	0	48	17	55/816= 6.7
ACID(14)	0	0	48	0	0	0	14	16	62/224=27.7
B/N(51	0	0	42	0	0	0	51	16	42/816=11.4
PEST(21)	0	0	21	0	0	0	21	16	42/336=12.5
PCB(7)	0	0	7	0	0	0	7	16	14/112=12.5

Note: Asterisk * indicates additional exceedance criteria.

SOP NO. HW-6

Revision #11

May 1996

CLP ORGANICS DATA REVIEW
AND PRELIMINARY REVIEW
(CLP/SOW OLMO 3.2)

By: George Karras Date: 6/12/96
George Karras, Work Assignment Manager/Chemist
Toxic and Hazardous Waste Section

By: Karen Taylor Date: 6/17/96
Karen Taylor, Chemist
Toxic and Hazardous Waste Section

CONCURRED BY: Kevin W. Kubik Date: 6/18/96
Kevin Kubik, Chief
Toxic and Hazardous Waste Section

APPROVED BY: Robert M. Runyon Date: 6/18/96
Robert Runyon, Chief
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CLP Data Assessment . . . . . Attachment 1

Organic Regional Data Assessment Summary Form . . . Attachment 2

Data Rejection Summary Form . . . . . Attachment 3

INTRODUCTION

Scope and Applicability

This SOP offers detailed guidance in evaluating laboratory data generated according to the methods in the "USEPA Contract Laboratory Program Statement of Work for Organics Analysis OLM03.2," August 1994. The validation methods and actions discussed in this document are based on the requirements set forth in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," February 1994. This document attempts to cover technical as well as contractual problems specific to each fraction and sample matrix; however, situations may arise where data limitations must be assessed based on the reviewer's professional judgement.

In addition to technical requirements, contractual requirements are also covered in this document. While it is important that instances of contract non-compliance be addressed in the Data Assessment, the technical criteria are always used to qualify the analytical data.

Summary of Method

To ensure a thorough evaluation of each result in a data case, the reviewer must complete the checklist within this SOP, answering specific questions while performing the prescribed "ACTIONS" in each section. Qualifiers (or flags) are applied to questionable or unusable results as instructed. The data qualifiers discussed in this document are defined on page 4 of the National Functional Guidelines mentioned above.

The reviewer must prepare a detailed data assessment to be submitted along with the completed SOP checklist. The Data Assessment must list all data qualifications, reasons for qualifications, instances of missing data and contract non-compliance. This information is further summarized on the Organic Regional Data Assessment Summary and Data Rejection Summary forms (see attached).

Reviewer Qualifications

This SOP is intended for use by organic data validators who have successfully completed the USEPA Region II data validation training program. Data reviewers must possess a working knowledge of the USEPA Statement of Work and National Functional Guidelines mentioned above.

DEFINITIONS

Acronyms

BFB - bromofluorobenzene
BHC - benzene hexachloride
BNA - base neutral acid
CCS - contract compliance screening
CLASS - Contract Laboratory Analytical Services Support
CLP - Contract Laboratory Program
CRQL - Contract Required Quantitation Limit
%D - percent difference
DCB -decachlorobiphenyl
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenylethane
DDT - dichlorodiphenyltrichloroethane
GC - gas chromatography
GC/EC - gas chromatograph/electron capture detector
GC/MS - gas chromatograph/mass spectrometer
GPC - gel permeation chromatography
IS - internal standard
kg - kilogram
µg - microgram
MAGIC - Mainframe Access Graphical Interface with CARD
MS - matrix spike
MSD - matrix spike duplicate
ℓ - liter
mℓ - mililiter
PCB - polychlorinated biphenyl
PE - performance evaluation
PEM - Performance Evaluation Mixture
QC - quality control
RAS - Routine Analytical Services
RIC - reconstructed ion chromatogram
RPD - relative percent difference
RRF - relative response factor
$\overline{RRF}$ - average relative response factor (from initial calibration)
RRT - relative retention time
RSD - relative standard deviation
RT - retention time
RSCC - Regional Sample Control Center
SDG - sample delivery group
SMC - system monitoring compound
SOP - standard operating procedure
SOW - Statement of Work
SVOA - semivolatile organic analysis
TCL - Target Compound List
TCLP - Toxicity Characteristics Leachate Procedure
TCX -tetrachloro-m-xylene
TIC - tentatively identified compound

Acronyms (cont'd.)

TPO - technical project officer
VOA - volatile organic analysis
VTSR - validated time of sample receipt

Data Qualifiers

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively dienrified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality contrrol criteria. The presence or absence of the analyte cannot be verified.

YES NO N/A

PACKAGE COMPLETENESS AND DELIVERABLES

CASE NUMBER: 27965 LABORATORY: AATSLA

SITE NAME: Diamond Aerosol SDG Number(s): B01HY

1.0 Chain of Custody and Sampling Trip Reports

1.1 Are the Traffic Reports/Chain-of-Custody Records present for all samples? [✓] ___ ___

ACTION: If no, contact RSCC or the lab to obtain replacement of missing or illegible copies.

1.2 Is the Sampling Trip Report present for all samples and all fractions? [✓] ___ ___

ACTION: If no, contact either RSCC or ask the prime contractor to provide this information.

2.0 Data Completeness and Deliverables

2.1 Have any missing deliverables been received and added to the data package? [✓] ___

NOTE: The lab is required to submit data for only two analyses, for each fraction. (i.e., the original sample and one dilution, or the most concentrated dilution analyzed and one further dilution.)

ACTION: Contact the lab to obtain an explanation or resubmittal of any missing deliverables. If lab cannot provide them, note the effect on the review of the package in the Contract Problems/Non-compliance section of the Data Assessment and the Organic Regional Data Assessment Summary form.

2.2 Was CLASS CCS checklist included with package? [ ] [✓] ___

2.3 Are there any discrepancies between the Traffic Reports/Chain-of-Custody Records, Sampling Report and Sample Tags? ___ [ ] ___

ACTION: If yes, contact the lab to obtain an explanation or resubmittal of any missing deliverables.

	YES	NO	N/A
3.0 Cover Letter SDG Narrative			
3.1 Is the Narrative or Cover Letter Present?	✓		
3.2 Are case number, SDG number and contract number contained in the SDG Narrative or cover letter (see SOW, Exhibit B, section 2.6.1)?	✓		
3.3 Does the narrative contain the following information:			
VOA: description of trap and columns used during sample analyses?	✓		
BNA: description of columns used during sample analyses?	✓		
Pest: description of columns used during sample analyses?	✓		
NOTE: As per section 6.23.3.1 SOW/p. D-11/Pest, Packed columns are not permitted.			
3.4 Does the narrative, VOA and BNA sections, contain a list of all TICs identified as alkanes and their estimated concentrations?		✓	
3.5 Does the narrative contain a record of all cooler temperatures? If the temperature of a cooler was exceeded, > 10° C, the lab must list by fraction and sample number, all affected samples.	✓		
3.6 Does the narrative contain a list of the pH values determined for each water sample submitted for volatile analysis (SOW Exhibit B, section 2.6.1.2)?	✓		
3.7 Does the Case Narrative contain the statement, "verbatim", as required in Section B of the SOW?	✓		

ACTION: If "No", to any question in this section, contact the lab to obtain all necessary resubmittals. If information is not available, document in the Data Assessment under Contract Problems/Non-Compliance section.

	YES	NO	N/A
4.0 Data Validation Checklist			
4.1 Check the package for the following discrepancies:			
a. Is the package paginated in ascending order starting from the SDG narrative?	[✓]	___	___
b. Are all forms and copies legible?	[✓]	___	___
c. Is each fraction assembled in the order set forth in the SOW?	[✓]	___	___
d. Is a Sample Data Summary Package submitted immediately preceding the Sample Data Package?	[✓]	___	___

The following checklist is divided into three parts. Part A is for any VOA analyses, Part B is for BNAs and Part C is Pesticide/PCBs.

Does this package contain:

VOA Data?	✓	___
BNA Data?	✓	___
Pesticide/PCB data?	✓	___

ACTION: Complete corresponding parts of checklist.

YES NO N/A

PART A: VOA ANALYSES

1.0 Sample Conditions/Problems

1.1 Do the Traffic Reports/Chain-of-Custody Records, Sampling Report or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data? Four sample have no date and time. ✓ [ ] ___

ACTION: If any sample analyzed as a soil, other than TCLP, contains 50% - 90% water, all data should be flagged as estimated (J). If a soil sample other than TCLP contains more than 90% water, all data should be qualified as unusable (R).

ACTION: If samples were not iced or the ice was melted upon arrival at the laboratory and the cooler temperature was elevated (> 10° C), then flag all positive results with a "J" and all non-detects "UJ".

ACTION: If both VOA vials for a sample have air bubbles or the VOA vial analyzed had air bubbles, flag all positive results "J" and all non-detects "R".

ACTION: The smallest soil size permitted is 0.5g. If any soil sample is smaller than 0.5g, document in the Data Assessment under Contract Problems/Non-Compliance.

2.0 Holding Times

2.1 Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded? ___ [✓] ___

Technical Holding Times: If unpreserved, aqueous samples, maintained at 4° C for aromatic hydrocarbons analysis must be analyzed within 7 days of collection. If preserved with HCl (pH < 2) and stored at 4° C, then aqueous samples must be analyzed within 14 days of collection. If uncertain about preservation, contact sampler to determine whether or not samples were preserved. The holding time for soils is 10 days from date of collection.

YES NO N/A

Table of Holding Time Violations
(See Chain-of-Custody Records)

Sample ID	Sample Matrix	Was Sample Preserved?	Date Sampled	Date Lab Received	Date Analyzed

ACTION: If technical holding times are exceeded, flag all positive results as estimated "J" and sample quantitation limits as estimated "UJ", and document in the Data Assessment that holding times were exceeded. If analyses were done more than 14 days beyond holding time, either on the first analysis or upon re-analysis, the reviewer must use professional judgement to determine the reliability of the data and the effects of additional storage on the sample results. At a minimum, all results must be qualified "J", but the reviewer may determine that non-detect data are unusable "R". If holding times are exceeded by more than 28 days, all non detect data are unusable "R".

NOTE: Contractual Holding Times: Analysis of water and soil/sediment samples must be completed within 10 days of Validated Time of Sample Receipt (VTSR). This requirement does not apply to Performance Evaluation (PE) samples.

ACTION: If contractual holding times are exceeded, document in the Data Assessment and on the Organic Regional Data Assessment Summary form.

NOTE: The data reviewer must note in the Data Assessment whether or not technical and contractual holding times were met.

	YES	NO	N/A
3.0 System Monitoring Compound (SMC) Recovery (Form II)			
3.1 Are the VOA SMC Recovery Summaries (Form II) present for each of the following matrices:			
a. Low Water?	✓		
b. Low Soil?	✓		
c. Med Soil?	✓		
3.2 Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
a. Low Water?	✓		
b. Low Soil?	✓		
c. Med Soil?	✓		

ACTION: Contact the lab to obtain an explanation or resubmittal of any missing deliverables. If missing deliverables are unavailable, document the effect in the Data Assessment.

3.3 Were outliers marked correctly with an asterisk?	✓		

ACTION: Circle all outliers with red pencil.

3.4 Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?	~~✓~~	✓	
If yes, were samples re-analyzed?			
Were method blanks re-analyzed?		✓	✓

ACTION: If recoveries are ≥ 10%, but 1 or more compounds fail to meet SOW specifications:

1. All positive results are qualified as estimated "J".

2. Flag all non-detects as estimated detection limits "UJ" where recovery is less than the lower acceptance limit.

YES NO N/A

3. If SMC recoveries are above allowable levels, do not qualify non-detects.

If any system monitoring compound recovery is < 10%:

1. Flag all positive results as estimated "J".

2. Flag all non-detects as unusable "R".

Professional judgement should be used to qualify data that only have method blank SMC recoveries out of specification in both original and re-analyses. Check the internal standard areas.

NOTE: Contractual requirements state that if any SMC fails the acceptance criteria, the sample must be re-analyzed. If the affected sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance and in the Organic Regional Data Assessment Summary.

NOTE: The laboratory must submit the following data:

1. If SMC recoveries and internal standard responses meet the acceptance criteria in the re-analyzed sample, then the laboratory must submit only the re-analysis.

2. If an SMC recovery and/or internal standard response fails to meet the acceptance criteria upon re-analysis, then submit data from both analyses.

(Refer to section 11.4.3.2, page D-46/VOA of the SOW for more information.)

3.5 Are there any transcription/calculation errors between raw data and Form II? ___ ✓ ___

ACTION: If large errors exist, contact the lab to obtain an explanation or resubmittal of corrected deliverables. Make any necessary corrections and note the effect in the Data Assessment.

	YES	NO	N/A

4.0 Matrix Spikes (Form III)

4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?	[✓]	___	___
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices:			
	a. Low Water?	[✓]	___	___
	b. Low Soil?	[✓]	___	___
	c. Med Soil?	[✓]	___	___

ACTION: If any matrix spike data are missing, take the action specified in section 3.2 above.

4.3 How many VOA spike recoveries are outside QC limits?

Water	Soils
0 out of 10	0 out of 10

4.4 How many RPDs for matrix spike and matrix spike duplicate recoveries are outside QC limits?

Water	Soils
0 out of 5	0 out of 5

ACTION: No action is taken based upon MS/MSD data alone. However, using informed professional judgement, the MS/MSD results may be used in conjunction with other QC criteria to determine the need for qualification of the data.

ACTION: Circle all outliers with red pencil.

5.0 Blanks (Form IV)

5.1	Is the Method Blank Summary (Form IV) present?	[ ]	___	___
5.2	Frequency of Analysis: for the analysis of VOA TCL compounds, has a reagent/method blank been analyzed for each SDG or every 20 samples of similar matrix (low water, low soil or medium soil), whichever is more frequent?	[ ]	___	___

	YES	NO	N/A
5.3 Has a VOA method blank been analyzed at least once every twelve hours for each concentration level and GC/MS system used?	✓		
5.4 Was a VOA instrument blank analyzed after each sample/dilution which contained a target compound that exceeded the initial calibration range?	✓		
5.5 Was a VOA storage blank analyzed at the end of all samples for each SDG in a case?	✓		

ACTION: If any method/instrument blank data are missing, contact the lab to obtain any missing deliverables. If method blank data are not available, reject "R" all associated positive data. However, using professional judgement, the data reviewer may substitute field blank or trip blank data for missing method blank data.

If any instrument blank analyzed after a sample with high concentration is missing, contact the lab to obtain any missing deliverables. If the instrument blank was not analyzed or not available, inspect the chromatogram of the sample analyzed immediately after this analysis for possible carryover. Use professional judgement to determine if any contamination occurred and qualify analyte(s) accordingly.

If storage blank data is missing, contact the lab to obtain any missing deliverables. If unavailable, note in the Contract Problems/Non-Compliance section of the Data Assessment.

5.6 **The validator should verify that the correct identification scheme for the EPA Blank samples were used. See page B-33, section 3.3.7.3 of the SOW for further information.**

	YES	NO	N/A
Was the correct identification scheme used for all VOA blanks?	✓		

ACTION: Contact the lab to obtain missing deliverables, or make the required corrections on the forms. Document in the Data Assessment under Contract Problems/Non-compliance if corrections were made by the validator.

	YES	NO	N/A
5.7 Chromatography: review the blank raw data-chromatograms (RICs), quant. reports or data system printouts and spectra. Is the chromatographic performance (baseline stability) for each instrument acceptable for VOAs?	✓		

ACTION: Use professional judgement to determine the effect on the data.

VBLKAL → 7 J acetone, 1 J cyclohexane

	YES	NO	N/A
5.8 Are all detected hits for target compounds in method, instrument and storage blanks less than the CRQL for that analyte?		✓	

VBLKAM → 1 J methyl cyclohexane

Exception: Acetone and 2-butanone must be less than 5 times the CRQL, and methylene chloride must be less than 2.5 times its CRQL.

ACTION: If no, an explanation and laboratory's corrective actions must be addressed in the case narrative. If the narrative contains no explanation, then make a note in the Contract Problems/Non-Compliance section of the Data Assessment.

6.0 Contamination

NOTE: "Water blanks", "drill blanks", and "distilled water blanks" are validated like any other sample, and are not used to qualify data. Do not confuse them with the other QC blanks discussed below.

	YES	NO	N/A
6.1 Do any method/instrument/reagent/storage blanks have positive results (TCL and/or TIC) for VOAs?	✓		

NOTE: When applied as directed in the table below, the contaminant concentration in these blanks are multiplied by the sample dilution factor and corrected for %moisture when necessary.

NOTE: A contaminated instrument blank is not allowable under this SOW. See page D-48/VOA, section 12.1.2.4 for additional information. Document in the Data Assessment under Contract Problems/Non-Compliance if contaminated instrument blank was submitted.

	YES	NO	N/A
6.2 Do any field/trip/rinse blanks have positive VOA results (TCL and/or TIC)?	✓		

Trip blank → 2J - Acetone

YES NO N/A

ACTION: Prepare a list of the samples associated with each of the contaminated blanks. (Attach a separate sheet.)

NOTE: All field blank results associated with a particular group of samples (may exceed one per case) must be used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped and are not required for non-aqueous matrices. Blanks may not be qualified because of contamination in another blank. Field Blanks & Trip Blanks must be qualified for system monitoring compound, instrument performance criteria, spectral or calibration QC problems.

ACTION: Follow the directions in the table below to qualify TCL results due to contamination. Use the largest value from all the associated blanks. If any blanks are grossly contaminated, all associated data should be qualified as unusable "R".

For:	Flag sample result with a "U" when:	Report CRQL & qualify "U" when:	No qualification is needed when:
Methylene Chloride Acetone Toluene 2-Butanone	Sample conc. is > CRQL, but ≤ 10× blank value.	Sample conc. is < CRQL and ≤ 10× blank value.	Sample conc. is > CRQL and > 10× blank value.
Other Conta-minants	Sample conc. is > CRQL, but ≤ 5× blank value.	Sample conc. is < CRQL and ≤ 5× blank value.	Sample conc. is > CRQL and > 5× blank value.

NOTE: Analytes qualified "U" for blank contamination are still considered as "hits" when qualifying for calibration criteria.

ACTION: For TIC compounds, if the concentration in the sample is less than five times the concentration in the most contaminated associated blank, flag the sample data "R".

	YES	NO	N/A
6.3 Are there field/rinse/equipment blanks associated with every sample?	[✓]	___	___

ACTION: For low level samples, note in the Data Assessment that there is no associated field/rinse/equipment blank. For samples with high concentrations of suspected blank contaminants, use professional judgement to qualify these values and make a note in the Data Assessment.

Exception: samples taken from a drinking water tap do not have associated field blanks.

7.0 GC/MS Instrument Performance Check (Form V)

7.1 Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)?	[✓]	___	___
7.2 Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?	[ ]	[✓]	___
7.3 Has an instrument performance check been analyzed for every analytical sequence on each instrument?	[✓]	___	___

ACTION: List date, time, instrument ID, and sample numbers for which associated GC/MS tuning data are unavailable.

DATE	TIME	INSTRUMENT	SAMPLE NUMBERS

ACTION: **Notify the lab to obtain missing data, if possible. If the lab cannot provide the missing data, reject, "R", all data generated outside an acceptable twelve hour calibration interval.**

7.4 Have the ion abundances been normalized to m/z 95 as specified in Exhibit D, page D-56/VOA?	[✓]	___	___

NOTE: All ion abundance ratios must be normalized to m/z 96, the nominal base peak, even though the

	YES	NO	N/A
ion abundance of m/z 174 may be up to 120% that of m/z 95.			
ACTION: If mass assignment is in error, qualify all associated data as unusable "R".			
7.5 Have the ion abundance criteria been met for each instrument used?	✓		
ACTION: List all data which do not meet ion abundance criteria (attach a separate sheet).			
ACTION: If ion abundance criteria are not met, the Region II TPO must be notified.			
7.6 Are there any transcription/calculation errors between mass lists and Form Vs? (Check at least two values, but if errors are found check more.)		✓	
7.7 Is the number of significant figures for the reported relative abundances consistent with the number given for each ion in the ion abundance criteria column?	✓		
ACTION: If large errors exist, take action as specified in section 3.5 above.			
7.8 Are the spectra of the mass calibration compound acceptable?	✓		
ACTION: Use professional judgement to determine whether associated data should be accepted, qualified, or rejected.			
8.0 Target Compound List (TCL) Analytes (FORM I VOA)			
8.1 Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:			
a. Samples and/or fractions as appropriate?	✓		
b. Matrix spikes and matrix spike duplicates?	✓		
c. Blanks?	✓		
8.2 Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (quant. reports) included in the sample package for each of the			

	YES	NO	N/A
following:			
a. Samples and/or fractions as appropriate?	[✓]	___	___
b. Matrix spikes and matrix spike duplicates (mass spectra not required)?	[✓]	___	___
c. Blanks?	[✓]	___	___
ACTION: If any data are missing, take action specified in 3.2 above.			
8.3 Are the response factors shown in the quant. report?	[✓]	___	___
8.4 Is chromatographic performance acceptable with respect to:			
a. Baseline stability?	[✓]	___	___
b. Resolution?	[✓]	___	___
c. Peak shape?	[✓]	___	___
d. Full-scale graph (attenuation)?	[✓]	___	___
e. Other: _____?	[✓]	___	___
ACTION: Use professional judgement to determine the acceptability of the data.			
8.5 Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample?	[✓]	___	___
ACTION: If any mass spectra are missing, take action as specified in 3.2 above. If the lab does not generate its own standard spectra, document in the Contract Problems/Non-compliance section of the Data Assessment and the Organic Regional Data Assessment Summary.			
8.6 Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	[✓]	___	___
8.7 Are all ions present in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	[✓]	___	___

	YES	NO	N/A
8.8 Do sample and standard relative ion intensities agree within ±20%?	[✓]		

ACTION: Use professional judgement to determine acceptability of data. If it is determined that incorrect identifications were made, all such data should be rejected "R", flagged "N" (presumptive evidence of the presence of the compound) or changed to not detected "U" at the calculated detection limit. In order to be positively identified, the data must comply with the criteria listed in 8.6, 8.7, and 8.8.

ACTION: When sample carry-over is suspected, use professional judgement determine if instrument cross-contamination has affected positive compound identifications.

9.0 Tentatively Identified Compounds (TIC)

	YES	NO	N/A
9.1 Are all Tentatively Identified Compound Forms (Form I Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?	[✓]		
9.2 Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
a. Samples and/or fractions as appropriate?	[✓]		
b. Blanks?	[✓]		
c. Alkanes listed for each sample?	[✓]		

ACTION: If any TIC data are missing, take action specified in 3.2 above.

ACTION: Add "JN" qualifier to all chemically named TICs, if missing.

	YES	NO	N/A
9.3 Are any TCL compounds (from any fraction) listed as TIC compounds? (Example: 1,2- dimethylbenzene is xylene, a VOA TCL analyte, and should not be reported as a TIC.)		[✓]	

ACTION: Flag with "R" any TCL compound listed as a TIC.

	YES	NO	N/A
9.4 Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	✓		
9.5 Do TIC and "best match" standard relative ion intensities agree within ±20%?	✓		

ACTION: Use professional judgement to determine the acceptability of TIC identifications. If it is determined an incorrect identification was made, change the identification to "unknown," or to some less specific identification as appropriate. (Example: "C3 substituted benzene.")

Also, when a compound is not found in any blank, but is detected in a sample and is a suspected artifact of a common laboratory contaminant, the result should be qualified as unusable "R". (E.g., Common Lab Contaminants: CO_2 (M/E 44), siloxanes (M/E 73) hexane, aldol condensation products, solvent preservatives, and related by-products - see the National Functional Guidelines for further guidance.)

	YES	NO	N/A
9.6 Are TICs with responses < 10% of the internal standard (as determined by inspection of the peak areas or height) reported?		✓	

ACTION: If yes, cross out questionable TIC(s).

10.0 Compound Quantitation and Reported Detection Limits

	YES	NO	N/A
10.1 Are there any transcription/calculation errors in Form I results? (Check at least two positive values. Verify that the correct internal standards, quantitation ions, and RRF were used to calculate Form I results.)		✓	
10.2 Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	✓		✓

ACTION: If errors are large, take action as specified in section 3.5 above.

ACTION: When a sample is analyzed at more than one dilution, the lowest CRQLs are used (unless a QC exceedance dictates the use of the higher CRQL data from the diluted sample). Replace

YES NO N/

concentrations that exceeded the calibration range in the original analysis by crossing out the "E" and its corresponding value on the original Form I and substituting the data from the diluted sample. Specify which Form I is to be used, then draw a red "X" across the entire page of all Form Is not to be used, including any in the data summary package.

11.0 Standards Data (GC/MS)

11.1 Are the Reconstructed Ion Chromatograms, and data system printouts (quant. reports) present for each initial and continuing calibration? [✓] ___ ___

ACTION: If any calibration standard data are missing, take action specified in 3.2 above.

12.0 GC/MS Initial Calibration (Form VI)

12.1 Are the Initial Calibration Forms (Form VI) present and complete at concentrations of 10, 20, 50, 100, 200ng for separate calibrations of low water/med soils (unheated purge) and low soils (heated purge)? [✓] ___ ___

ACTION: If any calibration standard forms are missing, take action specified in 3.2 above.

12.2 Were all low level soil standards, blanks and samples analyzed by heated purge? [✓] ___ ___

ACTION: If low level soil samples were not heated during purge, qualify positive hits "J" (estimated) and non-detects "R".

12.3 Are the % relative standard deviation (%RSD) values for VOAs ≤ 30% over the concentration range of the calibration? [ ] [✓] ___

Acetone 36.8%

NOTE: Although 11 VOA compounds have a contractual minimum RRF and no maximum %RSD, the technical acceptance criteria are the same for all analytes.

ACTION: Circle all outliers with red pencil.

ACTION: If %RSD is > 30.0%, qualify associated positive results for that analyte "J" (estimated) and non-detects using professional judgement. When

YES NO N/A

%RSD is > 90%, flag all non-detects for that analyte "R" (unusable) and positive hits "J".

NOTE: Analytes previously qualified "U" for blank contamination are still considered as "hits" when qualifying for initial calibration criteria.

12.4 Are any average RRFs < 0.05? ___ [✓] ___

ACTION: Circle all outliers with red pencil.

ACTION: If the average RRF is < 0.05, then qualify associated non-detects with an "R" and flag associated positive data as estimated "J".

NOTE: Contract Requirement: The SOW allows up to two of the required analytes to fail contractual %RSD or RRF criteria, provided the %RSD is ≤ 40% and RRF is ≥ 0.010. (See Table 5, page D-59/VOA and analytes marked with a "*" on Form VI for required analytes and contractual criteria.) Technical criteria, however, are the same for all analytes.

ACTION: If more than two analytes failed %RSD or RRF criteria, document in the Data Assessment under Contract Problems/Non-Compliance and the Organic Regional Data Assessment Summary.

12.5 Are there any transcription/calculation errors in the reporting of average relative response factors (RRF) or %RSD? (Check at least 2 values, but if errors are found, check more.) ___ [✓] ___

ACTION: Circle errors with red pencil.

ACTION: If errors are large, contact the lab to obtain an explanation/resubmittal, document in the Data Assessment under Contract Problems/Non-Compliance and in the Organic Regional Data Assessment Summary.

13.0 GC/MS Continuing Calibration (Form VII)

13.1 Are the Continuing Calibration Forms (Form VII) present and complete for separate calibration of low water/med soil and low soil samples? [✓] ___ ___

13.2 Has a continuing calibration standard been analyzed for every twelve hours of sample

	YES	NO	N/A
analysis per instrument?	✓		

ACTION: If any forms are missing or no continuing calibration standard has been analyzed within twelve hours of every sample analysis, contact the lab to request an explanation/resubmittal. If continuing calibration data are not available, flag all associated sample data as unusable "R".

ACTION: List below all sample(s) that were not analyzed within twelve hours of the previous continuing calibration.

_____

_____

_____

	YES	NO	N/A
13.3 Do any volatile compounds have a percent difference (%D) between the initial and continuing RRF which exceeds the ±25% criteria?		✓	

NOTE: Although 11 VOA compounds have a contractual minimum RRF and no maximum %D, the technical acceptance criteria are the same for all analytes.

ACTION: Circle all outliers with red pencil.

ACTION: Qualify both positive results and non-detects for the outlier compound(s) as estimated. When %D is > 90%, qualify all non-detects for that analyte unusable (R) and positive results estimated (J).

	YES	NO	N/A
13.4 Are any continuing calibration RRFs < 0.05?		✓	

ACTION: Circle all outliers with red pencil.

ACTION: If the RRF is < 0.05, qualify the associated non-detects as unusable "R" and the associated positive values "J".

NOTE: Contract Requirement: The SOW allows up to two of the required analytes to fail contractual %D and RRF criteria, provided that the %D is ≤ 40% and the RRF is ≥ 0.010. (See Table 5 pg. D-59/VOA or

YES NO N/A

analytes marked with a "." on Form VI for required analytes.) Technical criteria however, are the same for all analytes.

ACTION: If more than two analytes failed %D and RRF, criteria document in the Data Assessment under contract Problems/Non-Compliance and on the Organic Regional Data Assessment Summary form.

13.5 Are there any transcription/calculation errors in the reporting of RRF or %D between initial and continuing RRFs? (Check at least two values, but if errors are found, check more.) ___ [✓] ___

ACTION: Circle errors with red pencil.

ACTION: If errors are large, contact the lab to obtain an explanation/resubmittal, document in the Data Assessment under Contract Problems/Non-Compliance.

14.0 Internal Standard (Form VIII)

14.1 Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration? [✓] ___ ___

If no, was the sample re-analyzed? [ ] ___ [✓]

ACTION: 1. Circle all outliers with red pencil.

2. List all the outliers below.

Sample #	Internal Std.	Area	Lower/Upper Limit
			/
			/
			/
			/

(Attach additional sheets if necessary, or attach copies of Form VIIIs.)

ACTION: If any sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

YES NO N/A

ACTION: 1. If the internal standard area count is outside the upper or lower limit, flag with "J" all positive results quantitated with this internal standard.

2. Do not qualify non-detects when associated IS area counts are > 100%.

3. If the IS area in the sample is below the "lower limit," < 50%, qualify all analytes associated with that IS estimated, "J". If the area counts are extremely low, < 25% of the area in the 12 hour standard, or if performance exhibits a major abrupt drop- off, flag all associated non-detects as unusable, "R", and positive hits estimated, "J".

14.2 Are the retention times of the internal standards within 30 seconds of the associated calibration standard? [✓] ___ ___

ACTION: Professional judgement should be used to qualify data if the retention times differ by more than 30 seconds.

NOTE: Contractual requirements state that if any internal standard fails the acceptance criteria, the sample must be re-analyzed. If the affected sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

NOTE: See Notes in section 3.4, page 7 for a description of sample data the laboratory must submit.

15.0 Field Duplicates

15.1 Were any field duplicates submitted for VOA analysis? [✓] ___ ___

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between duplicate results must be addressed in the reviewer narrative. However, if large differences exist, identification of field duplicates should be confirmed by contacting the sampler.

YES NO N/A

PART B: BNA ANALYSES

1.0 Sample Conditions/Problems

1.1 Do the Traffic Reports/Chain-of-Custody records or laboratory SDG Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special notations affecting the quality of the data? Sampling date and time for four samples were missing. ✓ [ ]

ACTION: If any sample analyzed as a soil, other than TCLP, contains 50% - 90% water, all data should be flagged as estimated "J". If a soil sample, other than TCLP, contains more than 90% water, all data should be qualified as unusable "R".

ACTION: If samples were not iced or if the ice was melted upon arrival at the laboratory and the temperature of the cooler was elevated (> 10° C), flag all positive results "J" and all non-detects "UJ".

2.0 Holding Times

2.1 Have any BNA technical holding times, determined from date of collection to date of extraction, been exceeded? ✓ [ ]

Technical Holding Time: Continuous extraction of water samples for BNA analysis must be started within seven days of the date of collection. Soil/sediment samples must be extracted within 7 days of collection. Extracts must be analyzed within 40 days of the date of extraction.

Table of Holding Time Violations
(See Chain-of-Custody Records)

Sample Analyzed	Sample Matrix	Date Sampled	Date Lab Received	Date Extracted	Date Analyzed

YES NO N/A

ACTION: If technical holding times were exceeded, flag all positive results as estimated (J) and sample quantitation limits as estimated (UJ), and document in the narrative that holding times were exceeded. If analyses were done more than 14 days beyond holding time, either on the first analysis or upon reanalysis, the reviewer must use professional judgement to determine the reliability of the data and the effects of additional storage on sample results. At a minimum, all results should be qualified "J", but the reviewer may determine that non-detect data are unusable "R". If holding times were exceeded by more than 28 days, all non-detect data must be qualified "R", unusable.

NOTE: Contractual Holding Times: Extraction of water samples must be started within 5 days VTSR. Soil/sediment samples must be extracted within 10 days of VTSR. This requirement does not apply to Performance Evaluation (PE) samples. Water and soil/sediment extracts must be analyzed within 40 days following extraction.

ACTION: If contractual holding times are exceeded, document in the Data Assessment and on the Organic Regional Data Assessment Summary form.

NOTE: The data reviewer must note in the Data Assessment whether or not **technical and contractual** holding times were met.

3.0 Surrogate Recovery (Form II)

3.1 Are BNA Surrogate Recovery Summaries (Form II) present for each of the following matrices:

a. Low Water? [✓] ___ ___

b. Low Soil? [✓] ___ ___

c. Med Soil? [✓] ___ ___

3.2 Are all the BNA samples listed on the appropriate Surrogate Recovery Summaries for each of the following matrices:

a. Low Water? [✓] ___ ___

b. Low Soil? [✓] ___ ___

	YES	NO	N/A
c. Med Soil?	[✓]		

ACTION: Contact the lab for an explanation or resubmittal of any missing deliverables. If missing deliverables are unavailable, document the effect in the Data Assessment.

3.3 Were outliers marked correctly with an asterisk?	[ ]		✓

ACTION: Circle all outliers with red pencil.

3.4 Were two or more base-neutral OR acid surrogate recoveries out of specification for any sample or method blank?		[✓]	
If yes, were samples reanalyzed?	[ ]		✓
Were method blanks reanalyzed?	[ ]		✓

ACTION: If all BNA surrogate recoveries are ≥ 10%, but two within the base-neutral or acid fraction do not meet SOW specifications, for the affected fraction only (i.e. acid or base-neutral compounds):

1. Flag all positive results as estimated (J).

2. Flag all non-detects as estimated detection limits ("UJ") when recoveries are less than the lower acceptance limit.

3. Do not qualify non-detects if recoveries are greater than the upper acceptance limit.

If any base-neutral or acid surrogate has a recovery of < 10%:

1. Qualify positive results for that fraction as estimated (J).

2. Qualify non-detects for that fraction as unusable (R).

Professional judgement should be used to qualify data that have method blank surrogate recoveries out of specification in both original and reanalyses. Check the internal standard areas.

YES NO N/

NOTE: Contractual requirements state that if any surrogate fails acceptance criteria, the sample must be re-analyzed. If sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

NOTE: The laboratory must submit the following data:

1. If surrogate recoveries and internal standard responses meet the acceptance criteria in the re-analyzed sample, then the laboratory must submit only the re-analysis.

2. If surrogate recoveries and/or internal standard responses fail to meet the acceptance criteria upon re-analysis, then submit data from both analyses.

3.5 Are there any transcription/calculation errors between raw data and Form II? ___ [✓] ___

ACTION: If large errors exist, contact the lab for an explanation or resubmittal of corrected deliverables. Make necessary corrections and note errors in the Data Assessment.

4.0 Matrix Spikes (Form III)

4.1 Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present? [✓] ___ ___

4.2 Were matrix spikes analyzed at the required frequency for each of the following matrices:

a. Low Water? [✓] ___ ___

b. Low Soil? [✓] ___ ___

c. Med Soil? [✓] ___ ___

ACTION: If any matrix spike data are missing, take the action specified in 3.2 above.

4.3 How many BNA spike recoveries are outside QC limits?

Water	Soils
0 out of 22	1 out of 22

YES NO N/A

4.4 How many RPDs for matrix spike and matrix spike duplicate recoveries are outside QC limits?

Water	Soils
0 out of 11	0 out of 11

ACTION: No action is taken based upon MS/MSD data alone. However, using informed professional judgement, the data reviewer may use the matrix spike and matrix spike duplicate results in conjunction with other QC criteria and determine the need for some qualification of the data.

ACTION: Circle all outliers with red pencil.

5.0 Blanks (Form IV)

5.1 Is the Method Blank Summary (Form IV) present? ☑ ___ ___

5.2 Frequency of Analysis: Has a reagent/method blank analysis been reported per 20 samples of similar matrix, or concentration level, and for each extraction batch? ☑ ___ ___

5.3 Has a BNA method blank been analyzed for each GC/MS system used? (See SOW pg. D-54/SVOA, Section 12.1.2.) ☑ ___ ___

ACTION: If any method blank data are missing, contact the lab to obtain an explanation/resubmittal. If resubmittals are unavailable, use professional judgement to determine if the associated sample data should be qualified.

5.4 The validator should verify that the correct identification scheme for the EPA Blank samples were used. See page B-33, sec. 3.3.7.3 of the SOW for further information.

Was the correct identification scheme used for all BNA blanks? ☑ ___ ___

ACTION: Contact the lab to obtain resubmittals, or make the required corrections on the forms. Document all corrections made by the validator in the Data Assessment under Contract Problems/Non-Compliance.

	YES	NO	N/A
5.5 Chromatography: review the blank raw data - chromatograms (RICs), quant. reports or data system printouts and spectra. Is the chromatographic performance (baseline stability) acceptable for each instrument?	[✓]	___	___

ACTION: Use professional judgement to determine the effect on the data.

5.6 Are all detected hits for target compounds less than the CRQL for that analyte in all method blanks?	[✓]	___	___

Exception: Phthalate esters must be less than five times (5×) the CRQL.

6.0 Contamination

NOTE: "Water blanks", "drill blanks" and "distilled water blanks" are validated like any other sample and are not used to qualify data. Do not confuse them with the other QC blanks discussed below.

6.1 Do any method/reagent blanks have positive results (TCL and/or TIC)? SBLKFB & SBLKFC → bis(2-ethyl) phthalate 30J	✓	[ ]	___

NOTE: Water: When applied as directed in the table below (page 29), the contaminant concentration in method/instrument/reagent blanks is multiplied by the sample dilution factor, where necessary.

Soil: If the lab has not already done so, the contaminant concentration in soil blanks is multiplied by 33 times the sample dilution factor and corrected for %moisture (fraction of solid) where necessary. 30 grams of sodium sulfate (1 gram for medium level soils) are used to prepare the soil reagent/method blank as instructed on page D-54/SVOA, section 12.1.3. Contact the lab to obtain resubmittals if the soil blanks are not reported in soil units (µg/kg).

6.2 Do any field/rinse blanks have positive BNA results (TCL and/or TIC)? TIC	✓	[ ]	___

ACTION: Prepare a list of samples associated with each contaminated blank. (Attach a separate sheet.)

NOTE: All field blank results associated to a particular group of samples (may exceed one per case) must be

YES NO N/A

used to qualify sample data. Do not convert field blank results to account for the difference in soil CRQLs. Blanks may not be qualified because of contamination in another blank. Field blanks must be qualified for surrogate, spectral, instrument performance or calibration QC problems.

ACTION: Follow the directions in the table below to qualify TCL results due to contamination. Use the largest value from all the associated blanks. If gross contamination exists, all data in the associated samples should be qualified as unusable "R".

For:	Flag sample result with a "U" when:	Report CRQL & qualify "U" when:	No qualification is needed when:
Common Phthalate-Esters	Sample conc. is > CRQL, but ≤ 10× blank value.	Sample conc. is < CRQL and ≤ 10× blank value.	Sample conc. is > CRQL and > 10× blank value.
Other Conta-minants	Sample conc. is > CRQL, but ≤ 5× blank value.	Sample conc. is < CRQL and ≤ 5× blank value.	Sample conc. is > CRQL and > 5× blank value.

NOTE: Analytes qualified "U" for blank contamination are still treated as "hits" when qualifying for calibration criteria.

ACTION: For TIC compounds, if the concentration in the sample is less than five times the concentration in the most contaminated associated blank, flag the sample data "R" (unusable).

6.3 **Are there field/rinse/equipment blanks associated with every sample?** ✓ ___ ___

ACTION: For low level samples, note in the Data Assessment that there is no associated field/rinse/equipment blank. For analytes with high concentration, use professional judgement on qualification of these values and make a note in the Data Assessment.

Exception: samples taken from a drinking water tap do not have associated field blanks.

	YES	NO	N/A

7.0 GC/MS Instrument Performance Check

		YES	NO	N/A
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Decafluorotriphenylphosphine (DFTPP)?	✓		
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the DFTPP provided for each twelve hour shift?		✓	
7.3	Has an instrument performance check solution been analyzed for every twelve hours of sample analysis per instrument?	✓		

ACTION: List date, time, instrument ID, and sample number for which no associated GC/MS tuning data are valid.

SAMPLE NUMBERS	DATE	TIME	INSTRUMENT ID

ACTION: If the lab cannot provide the missing data, reject "R" all data generated outside an acceptable twelve hour calibration interval.

		YES	NO	N/A
7.4	Have the ion abundances been normalized to m/z 198 (see SOW, page D-61/SVOA)?	✓		

NOTE: All ion abundance ratios must be normalized to m/z 198, the nominal base peak, even though the ion abundance of m/z 442 may up to 110% that of m/z 198.

ACTION: If mass assignment is in error, flag all associated sample data as unusable "R".

		YES	NO	N/A
7.5	Have the ion abundance criteria been met for each instrument used?	✓		

ACTION: List all data which do not meet ion abundance criteria (attach a separate sheet).

	YES	NO	N/A
ACTION: If ion abundance criteria are not met, the Region II TPO must be notified.			
7.6 Are there any transcription/calculation errors between mass lists and Form Vs? (Check at least two values, but if errors are found check more.)	___	✓	___
7.7 Is the number of significant figures for the reported relative abundances consistent with the number given for each ion in the ion abundance criteria column?	✓	___	___
ACTION: If large errors exist, take action as specified in section 3.5 above.			
7.8 Are the spectra of the mass calibration compound acceptable?	✓	___	✓
ACTION: Use professional judgement to determine whether associated data should be accepted, qualified, or rejected.			

8.0 Target Compound List (TCL) Analytes (FORM I SV)

	YES	NO	N/A
8.1 Are the Organic Analysis Data Sheets (Form I SV) present with required header information on each page, for each of the following:			
a. Samples and/or fractions as appropriate?	✓	___	___
b. Matrix spikes and matrix spike duplicates?	✓	___	___
c. Blanks?	✓	___	___
8.2 Has GPC cleanup been performed on all soil/ sediment sample extracts?	✓	___	___
ACTION: If data suggests that GPC was not performed, use professional judgement. Make note in Contract Problems/Non-Compliance section of the Data Assessment and the Organic Regional Data Assessment Summary.			
8.3 Are the BNA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (quant. reports) included in the sample package for each of the following:			
a. Samples and/or fractions as appropriate?	[ ]	___	___

	YES	NO	N/A
b. Matrix spikes and matrix spike duplicates (mass spectra not required)?	[ ]	___	___
c. Blanks?	[ ]	___	___

ACTION: If any data are missing, take action specified in 3.2 above.

8.4 Are the response factors shown in the quant. report?	[✓]	___	___
8.5 Is chromatographic performance acceptable with respect to:			
Baseline stability?	[✓]	___	___
Resolution?	[✓]	___	___
Peak shape?	[✓]	___	___
Full-scale graph (attenuation)?	[✓]	___	___
Other:_____?	[ ]	___	___

ACTION: Use professional judgement to determine the acceptability of the data.

8.6 Are lab-generated standard mass spectra of identified BNA compounds present for each sample?	[✓]	___	___

ACTION: If any mass spectra are missing, take action specified in 3.2 above. Note under Contract Non-compliance if lab does not generate their own standard spectra. If spectra are missing, reject all positive data.

8.7 Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	[✓]	___	___
8.8 Are all ions present in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	[✓]	___	___
8.9 Do sample and standard relative ion intensities agree within ±20%?	[✓]	___	___

ACTION: Use professional judgement to determine acceptability of data. If it is determined that incorrect identifications were made, all

YES NO N/A

such data should be rejected "R", flagged "N" (presumptive evidence of the presence of the compound) or changed to not detected "U" at the calculated detection limit. In order to be positively identified, the data must comply with the criteria listed in 8.7, 8.8, and 8.9.

ACTION: When sample carry-over is a possibility, professional judgement should be used to determine if instrument cross-contamination has affected any positive compound identification.

9.0 Tentatively Identified Compounds (TIC)

9.1 Are all Tentatively Identified Compound Forms (Form I, Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier? [✓] ___ ___

9.2 Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:

a. Samples and/or fractions as appropriate? [✓] ___ ___

b. Blanks? [✓] ___ ___

c. Alkanes listed for each sample? [✓] ___ ___

ACTION: If any TIC data are missing, take action specified in 3.2 above.

ACTION: Add "N" qualifier to all chemically named TICs, if missing.

9.3 Are any TCL compounds (from any fraction) listed as TIC compounds? (Example: 1,2-dimethylbenzene is xylene - a VOA TCL - and should not be reported as a TIC.) ___ [✓] ___

ACTION: Flag with "R" any TCL compound listed as a TIC.

9.4 Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum? [✓] ___ ___

9.5 Do TIC and "best match" standard relative ion intensities agree within ±20%? [✓] ___ ___

YES NO N/

ACTION: Use professional judgement to determine the acceptability of TIC identifications. If it is determined that an incorrect identification was made, change the identification to "unknown," or to some less specific identification (example: "C3 substituted benzene") as appropriate. Also, when a compound is not found in any blank, but is a suspected artifact of a common laboratory contaminant, the result should be qualified as unusable, "R".

9.6 Are any TICs with responses < 10% of the internal standard (as determined by inspection of the peak areas or height) reported? ___ ☑ ___

ACTION: If yes, cross out questionable TIC(s).

10.0 Compound Quantitation and Reported Detection Limits

10.1 Are there any transcription/calculation errors in Form I results? (Check at least two positive values. Verify that the correct internal standard, quantitation ion, and RRF were used to calculate Form I result.) ___ ☑ ___

10.2 Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture? ☑ ___ . ___

ACTION: If errors are large, take action as specified in section 3.5 above.

ACTION: When a sample is analyzed at more than one dilution, the lowest CRQLs are used (unless a QC exceedance dictates the use of the higher CRQL data from the diluted sample analysis). Replace concentrations that exceed the calibration range in the original analysis by crossing out the "E" and its associated value on the original Form I and substituting the data from the analysis of the diluted sample. Specify which Form I is to be used, then draw a red "X" across the entire page of all Form Is that should not be used, including any in the summary package.

11.0 Standards Data (GC/MS)

11.1 Are the Reconstructed Ion Chromatograms, and data system printouts (quant. reports) present for initial and continuing calibration? ☑ ___ ___

	YES	NO	N/A

ACTION: If any calibration standard data are missing, take action specified in 3.2 above.

12.0 GC/MS Initial Calibration (Form VI)

12.1 Are the Initial Calibration Forms (Form VI) present and complete for the BNA fraction?	✓		

ACTION: If any calibration standard forms are missing, take action specified in 3.2 above.

12.2 Are the % relative standard deviation (%RSD) values for BNAs ≤ 30% over the concentration range of the calibration?	✓		

ACTION: Circle all outliers with red pencil.

NOTE: Although 21 BNA compounds have a contractual minimum RRF and no maximum %RSD, the technical criteria are the same for all analytes.

NOTE: Eight BNA compounds do not require a 20ng standard. Refer to SOW section 7.2.4.5.1, page D-15/SVOA for a list of required compounds and contractual criteria.

ACTION: If the %RSD is > 30.0%, qualify positive results for that analyte "J" and non-detects using professional judgement. When %RSD is > 90%, flag all non-detect results for that analyte "R" (unusable) and all positive results "J" (estimated).

NOTE: Analytes previously qualified "U" due to blank contamination are still considered as "hits" when qualifying for calibration criteria.

12.3 Are any average RRFs < 0.05?		✓	

ACTION: Circle all outliers with red pencil.

ACTION: If the average RRF is < 0.05 then:

1. "R" all non-detects.

2. "J" all positive results.

12.4 Are there any transcription/calculation errors in the reporting of RRFs and/or %RSDs? (Check at least two values; if errors are found check more.)		✓	

YES NO N/A

ACTION: Circle errors with red pencil.

ACTION: If errors are large, take action as specified in section 3.5 above.

NOTE: Contract Requirement: The SOW allows up to four of the required analytes to fail contractual %RSD or RRF criteria provided the %RSD is ≤ 40% or RRF is ≥ 0.010. (See Table 5, page D-66/SVOA and analytes marked with a "." on Form VI for a list of required analytes and contractual criteria.) Technical criteria, however, are the same for all analytes.

ACTION: If more than four analytes fail %RSD or RRF criteria, document in the Data Assessment under Contract Problems/Non-Compliance and on the Organic Regional Data Assessment Summary form.

13.0 GC/MS Continuing Calibration (Form VII)

13.1 Are the Continuing Calibration Forms (Form VII) present and complete for the BNA fraction? [✓] ___ ___

13.2 Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument? [✓] ___ ___

ACTION: List below all sample analyses that were not analyzed within twelve hours of a continuing calibration standard for each instrument used.

_____

_____

_____

ACTION: If any forms are missing, or no continuing calibration standard has been analyzed within twelve hours of every sample analysis, contact the lab to obtain an explanation/resubmittal. If continuing calibration data are unavailable, flag all associated sample data as unusable "R".

13.3 Does any BNA compound have a percent difference (%D) between the initial and continuing calibration RRFs which exceeds the ±25.0% criteria? [✓] [ ] ___

YES NO N/A

ACTION: Circle all outliers with red pencil.

ACTION: Qualify both positive results and non-detects for the outlier compound(s) as estimated "J". When %D is > 90%, reject all non-detects for that analyte, "R", and qualify positive results "J" (estimated).

13.4 Are any continuing RRFs < 0.05? ___ ✓ ___

ACTION: Circle all outliers with red pencil.

ACTION: If the RRF is < 0.05, qualify as unusable (R) associated non-detects and "J" associated positive values.

NOTE: Contract Requirement: The SOW allows up to four of the required analytes to fail contractual %D and RRF criteria, provided that the %D is ≤ 40% and the RRF is ≥ 0.010. (See Table 5 page D-66/SVOA or analytes marked with a "." on Form VI for a list of the required analytes.) Technical criteria, however, are the same for all analytes.

ACTION: If more than four analytes failed %D and RRF criteria, document in the Data Assessment under Contract Problems/Non-Compliance and on the Organic Regional Data Summary Form.

13.5 Are there any transcription/calculation errors in the reporting of average relative response factors (RRF) or %difference (%D) between initial and continuing RRFs? (Check at least two values, but if errors are found, check more.) ___ ✓ ___

ACTION: Circle errors with red pencil.

ACTION: If errors are large, take action as specified in section 3.5 above.

14.0 Internal Standards (Form VIII)

14.1 Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration? ✓ ___ ___

If no, was sample re-analyzed? ~~___~~ ___ ✓

$\bar{A}$ YES NO N/A

ACTION: 1. Circle all outliers with red pencil.

2. List all the outliers below.

ACTION: If sample was not reanalyzed, document in Data Assessment in Contract Problems/Non-Compliance.

Sample #	Internal Std.	Area	Lower/Upper Limit
			/
			/
			/
			/

(Attach additional sheets if necessary.)
(or attach copies of Form VIIIs)

ACTION: 1. If the internal standard area count is outside the "upper" or "lower" limit, flag with "J" all positive results and non-detects quantitated with this internal standard.

2. Do not qualify non-detects associated with IS area > 100%.

3. If the IS area in the sample is < 50%, qualify all analytes associated with that IS estimated (J). If area counts are extremely low (< 25% of the area in the 12 hour standard), or if performance exhibits a major abrupt drop-off, flag all associated non-detects as unusable (R) and positive hits estimated (J).

14.2 **Are the retention times of the internal standards within 30 seconds of the associated calibration standard?** ✓ ___ ___

ACTION: Professional judgement should be used to qualify data if the retention times differ by more than 30 seconds.

NOTE: Contractual requirements state that if any internal standard fails the acceptance criteria, the sample must be re-analyzed. If the affected sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

	YES	NO	N/A

NOTE: See Notes in section 3.4, page 24 for a description of sample data the laboratory must submit.

15.0 Field Duplicates

15.1 Were any field duplicates submitted for BNA analysis?	[✓]	___	___

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between field duplicate results must be addressed in the reviewer narrative. However, if large differences exist, identification of field duplicates should be confirmed by contacting the sampler.

YES NO N/A

PART C: PESTICIDE/PCB ANALYSIS

1.0 Sample Conditions/Problems

1.1 Do the Traffic Reports/Chain-of-Custody Records or SDG Narrative indicate any problems with sample receipt, condition of the samples, analytical problems or special circumstances affecting the quality of the data? ___ ✓ ___

ACTION: If any sample analyzed as a soil, other than TCLP, contains 50% - 90% water, all data should be qualified as estimated "J". If a soil sample, other than TCLP, contains more than 90% water, all data should be qualified as unusable "R".

ACTION: If samples were not iced, or if the ice was melted upon arrival at the laboratory, and the temperature of the cooler was elevated > 10^0 C, flag all positive results "J" and all non-detects "UJ".

ACTION: Check aqueous extraction log for sample pH, if adjustment was needed, it should have been noted in the SDG Narrative. If more information is needed, contact the lab.

2.0 Holding Times

2.1 Have any PEST/PCB technical holding times, determined from date of collection to date of extraction, been exceeded? ___ ✓ ___

NOTE: Technical Holding Times: Water and soil samples for PEST/PCB analysis must be extracted within 7 days of the date of collection. Extracts must be analyzed within 40 days of the date extraction.

ACTION: If technical holding times are exceeded, flag all positive results as estimated "J" and sample quantitation limits "UJ" and document in the narrative that holding times were exceeded. If analyses were done more than 14 days beyond holding time, either on the first analysis or upon re-analysis, the reviewer must use professional judgement to determine the reliability of the data and the effects of

YES NO N/A

additional storage on the sample results. At a minimum, all the data should at least be qualified "J", but the reviewer may determine that non-detects are unusable "R".

Table of Holding Time Violations
(See Chain-of-Custody Records)

Sample Analyzed	Sample Matrix	Date Sampled	Date Lab Received	Date Extracted	Date Analyzed

NOTE: Contractual Holding Times: Extraction of water samples must be completed within 5 days VTSR. Soil/sediment samples must be extracted within 10 days of VTSR. This requirement does not apply to Performance Evaluation (PE) samples. Extracts of water and soil/sediment samples must be analyzed within 40 days following start of extraction.

ACTION: If contractual holding times are exceeded, document in the Data Assessment and Organic Regional Data Assessment Summary form.

NOTE: The data reviewer must note in the Data Assessment whether or not **technical and contractual** holding times were met.

3.0 Surrogate Recovery (Form II)

3.1 **Are the PEST/PCB Surrogate Recovery Summaries (Form II) present for each of the following matrices:**

a. Low Water? [✓] ___ ___

b. Soil? [✓] ___ ___

3.2 Are all the PEST/PCB samples listed on the appropriate Surrogate Recovery Summary for each of the following matrices:

	YES	NO	N/A
a. Low Water?	[✓]	___	___
b. Soil?	[✓]	___	___

ACTION: Contact the lab to obtain an explanation or resubmittal of any missing deliverables. If missing deliverables are unavailable, document the effect in the Data Assessment.

	YES	NO	N/A
3.3 Were outliers marked correctly with an asterisk?	[✓]	___	___

ACTION: Circle all outliers with red pencil.

	YES	NO	N/A
3.4 Were surrogate recoveries of TCX or DCB outside of the contract specification for any sample, method blank or sulfur clean-up blank (30-150%)?	___	[✓]	___

ACTION: In the absence of matrix interference, qualification of the data is not required in the following three situations:

1. When surrogates on both columns are diluted out.

2. When one surrogate on one column was outside (either above or below) the contract limits but above 10%.

3. When the same surrogate on both columns is above the contract limit.

If the same surrogate on both columns is below the contract limit but above 10%, check chromatograms for interference. The reviewer may use professional judgement, and qualify only those analytes which elute in the region of the GC chromatogram where interference was observed.

If the same surrogate on both columns is below the contract limit but above 10% (with no interference), qualify non-detects and positive hits "J" (estimated).

If recoveries for both surrogates on both columns are below the contract limit but above 10%, flag positive results and non-detects for that sample "J".

YES NO N/A

If recoveries are above the contract limit for both surrogates on both columns, then qualify positive values "J".

If both surrogates on one column are below the contract limit but above 10%, then use the data from the other column, providing both surrogates on that column are within contract limits. The validator must check from which column the concentration is reported for each analyte. If the value is reported from the failed column, then cross it out and use the value from the other column. Document this change in the Data Assessment.

If recovery is below 10% for either surrogate on any column, qualify positive results "J" and flag non-detects "R".

3.5 Were surrogate retention times (RT) within the windows established during the initial 3-point analysis of Individual Standard Mixture A (see Form VI Pest-1)? [✓] ___ ___

ACTION: If the RT limits are not met, positive results and non-detects for that sample may be qualified unusable, "R", based on professional judgement.

3.6 Are there any transcription/calculation errors between raw data and Form II? ___ [✓] ___

ACTION: If large errors exist, contact the lab to obtain an explanation or resubmittal of corrected deliverables. Make any necessary corrections and document the effect in the Data Assessment.

4.0 Matrix Spikes (Form III)

4.1 Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present? [✓] ___ ___

4.2 Were matrix spikes analyzed at the required frequency for each of the following matrices (one MS/MSD must be performed for every 20 samples of similar matrix or concentration level):

a. Low Water? [✓] ___ ___

	YES	NO	N/A
b. Soil?	[ ]	___	___

ACTION: If any matrix spike data are missing, take the action specified in 3.2 above.

ACTION: Circle all outliers with red pencil.

4.3 How many PEST/PCB spike recoveries are outside QC limits?

Water	Soil
0 out of 12	0 out of 12

4.4 How many RPDs for matrix spike and matrix spike duplicate recoveries are outside QC limits?

Water	Soil
0 out of 6	0 out of 6

ACTION: No action is taken on MS/MSD data alone. However, using informed professional judgement, the data reviewer may use the matrix spike and matrix spike duplicate results in conjunction with other QC criteria and determine the need for some qualification of the data.

5.0 Blanks (Form IV)

	YES	NO	N/A
5.1 Is the Method Blank Summary (Form IV) present?	[✓]	___	___
5.2 Frequency of Analysis: Has a reagent/method blank been analyzed for each SDG, every 20 samples of similar matrix and concentration level or each extraction batch, whichever is more frequent?	[ ]	___	✓

ACTION: If any blank data are missing, take action as specified above in section 3.2. If blank data is not available, reject "R" all associated positive data. However, using professional judgement, the data reviewer may substitute field blank data for missing method blank data.

5.3 A separate Form IV should be present if part of an extraction batch required sulfur removal. In such cases some samples will be listed on two blank summary forms - once under the method

	YES	NO	N/A
blank, and once under the sulfur clean-up blank (PCBLK). Was this additional blank raw data and Form IV submitted when required?	[ ]		✓
ACTION: If sulfur clean-up blank data and Form IV are missing, take action as specified in 3.2 above.			
5.4 Has a PEST/PCB instrument blank been analyzed at the beginning of every 12 hr. period following the initial calibration sequence (minimum contract requirement)?	[✓]		
ACTION: If any blank data are missing, take action as specified in section 3.2 above.			
5.5 Was the correct identification scheme used for all Pest/PCB blanks? (See page B-33, sec. 3.3.7.3 of the SOW for further information.)	[✓]		
ACTION: Contact the lab to obtain resubmittals or make the required corrections on the forms. Document in the Data Assessment under Contract Problems/Non-Compliance all corrections made by the validator.			
5.6 Chromatography: review the blank raw data - chromatograms, quant. reports and data system printouts. Is the chromatographic performance (baseline stability) for each instrument acceptable?	[ ]		
ACTION: Use professional judgement to determine the effect on the data.			

6.0 Contamination

	YES	NO	N/A
NOTE: **"Water blanks"**, "distilled water blanks" and **"drilling water** blanks" are validated like any **other sample and** are not used to qualify the data. Do not confuse them with the other QC blanks discussed below.			PBLK (→ methoxychl: at 8.2]
6.1 Do any method/reagent, instrument, or cleanup blanks show positive hits for pest/PCBs?	✓	[✓]	
6.2 If any method blanks and/or sulfur clean-up blanks contain "hits" for target compounds, are these hits greater than the CRQL for that			

	YES	NO	N/A
analyte?	___	[✓]	___
6.3 In any instrument blanks, is the concentration of any target hit > 0.5 times CRQL for that analyte (see SOW, section 12.1.4.4.2, page D-77/PEST)?	___	[✓]	___

NOTE: Most labs will report 0.5 times CRQLs on the instrument blank Form I instead of the actual method CRQLs. If the lab reported the actual CRQLs, then check if any detected hits are above 0.5 times the CRQLs reported on the Form I.

ACTION: If yes to any of the above questions: note in the Data Assessment under Contract Problems/Non-Compliance if any method or clean-up blanks contain hits > the CRQL, or of instrument blank contained hits > 0.5 times CRQL for that analyte.

6.4 Do any field/rinse blanks have positive pest/PCB results?	___	[✓]	___

ACTION: Prepare a list of the samples associated with each contaminated blank. (Attach a separate sheet)

NOTE: All field blank results associated to a particular group of samples (may exceed one per case or one per day) may be used to qualify data. Do not convert <u>field blank</u> results to account for the difference in soil CRQLs. Blanks may not be qualified because of contamination in another blank. Field blanks must be qualified for surrogate, and/or calibration QC problems.

ACTION: Follow the directions in the table below to qualify TCL results due to contamination. Use the largest value from all the associated blanks.

NOTE: When applied as directed in the table below, the contaminant concentration in method/instrument/reagent/cleanup blanks is multiplied by the sample dilution factor, where necessary.

If the laboratory has not already done so, the contaminant concentration in <u>soil</u> blanks is multiplied by 33 times the sample dilution factor and corrected for %moisture (fraction of solid) where necessary. 30 grams of sodium sulfate are used to prepare each soil reagent/method blank as instructed on page D-72/PEST, section 12.1.2.3.1. Contact the

YES NO N/A

laboratory if the soil blanks are not reported in soil units (µg/kg).

Flag sample result with a "U":	Report CRQL & qualify "U":	No qualification is needed:
Sample conc. > CRQL, but ≤ 5× blank.	Sample conc. < CRQL & is ≤ 5× blank value.	Sample conc. > CRQL & > 5× blank value.

NOTE: If gross blank contamination exists, all data in the associated samples should be qualified as "R", unusable.

6.5 Are there field/rinse/equipment blanks associated with every sample? [✓] ___ ___

ACTION: For low level samples, note in the Data Assessment that there is no associated field/rinse/equipment blank. For analytes with high concentrations, use professional judgement to qualify these values and document in the Data Assessment.

<u>Exception</u>: samples taken from a drinking water tap do not have associated field blanks.

7.0 Calibration and GC Performance

7.1 Are the following Gas Chromatograms and Data Systems Printouts for both columns present for all samples, blanks and MS/MSD:

a. Peak resolution check? [✓] ___ ___

b. Performance evaluation mixtures? [✓] ___ ___

c. Aroclor 1016/1260? [✓] ___ ___

d. Aroclors 1221, 1232, 1242, 1248, 1254? [✓] ___ ___

e. Toxaphene? [✓] ___ ___

f. Low points individual mixtures A & B? [✓] ___ ___

g. Med points individual mixtures A & B? [✓] ___ ___

h. High points individual mixtures A & B? [✓] ___ ___

	YES	NO	N/A
i. Instrument blanks?	✓		
j. Were the appropriate GC columns used as specified on pg. D-11/PEST, sections 6.23.3.1 to 6.23.3.7, in the SOW?	✓		
7.2 Do the chromatograms for all Individual Standard Mixtures and PEM analyses display single component analytes at > 10% but < 100% of full scale (see sections 9.3.5.8.1 thru 9.3.5.8.4, pages D-32 & 33/PEST)?	✓		
Have chromatograms for Individual Standard Mixtures and PEM analyses been ~~replotted~~, showing scaling factor(s), to meet the above requirements when necessary?			✓

NOTE: All standard chromatograms must clearly display all peaks at > 10% but < 100% of full scale, and replotted if necessary to accommodate peaks not properly scaled in the initial chromatogram(s). Both the initial and replotted chromatograms must be submitted with the data package.

ACTION: If all single component peaks are not clearly displayed on chromatograms for all Individual Standard Mixtures and PEM analyses, contact the lab to obtain resubmittal of the necessary data.

	YES	NO	N/A
7.3 Are Forms VI PEST 1-7 present and complete for each column and each analytical sequence?	✓		

ACTION: If no, take action as specified in 3.2 above.

	YES	NO	N/A
7.4 Are there any transcription/ calculation errors between raw data and Forms VI?		✓	

ACTION: If large errors exist, take action as specified in section 3.6 above.

	YES	NO	N/A
7.5 Do all standard retention times, including each pesticide in each level of Individual Mixtures A & B, fall within the windows established during the Initial Calibration (see Form VI PEST-1)?	✓		

ACTION: If no, all samples in the entire analytical sequence are potentially affected. Check to see if the chromatograms contain peaks within an expanded window surrounding the expected

YES NO N/A

retention times. If no peaks are found and the surrogates are visible, non-detects are valid. If peaks are present and cannot be identified through pattern recognition or using a revised RT window, qualify all positive results "JN" and non-detects as unusable (R). For aroclors, the RT may be outside the window, but the aroclor may still be identified from its distinctive pattern.

7.6 Are the linearity criteria for the initial analyses of Individual Standards A & B within limits for both columns? (%RSD must be ≤ 25.0 for alpha and delta BHC, ≤ 30.0 for the two surrogates and ≤ 20% for all other analytes.) ✓ ___ ___

NOTE: Contractual requirements allow up to two single component TCL compounds, but not surrogates, on each column to exceed the criteria provided the %RSD is ≤ 30%. (See page D-28/Pest, sec. 9.2.5.7 in the SOW.) Technical criteria, however, are the same for all analytes.

ACTION: If technical criteria were not met, qualify all associated positive results generated during the entire analytical sequence "J" and all non-detects "UJ". When %RSD > 90%, flag all non-detect results for that analyte "R" (unusable).

ACTION: If more than two analytes failed %RSD, document in the Data Assessment Contract Problems/Non-Compliance section and Organic Regional Data Assessment Summary form.

7.7 Is the resolution between each pair of adjacent peaks in the Resolution Check Mixture ≥ 60.0% for both columns? (See Form VI PEST-4.) ✓ ___ ___

ACTION: If no, qualify positive results for compounds that were not adequately resolved "J". Use professional judgement to determine if non-detects which elute in areas affected by co-eluting peaks should be qualified "N" as presumptive evidence of presence or unusable (R).

7.8 Is Form VI PEST-5 present and complete for each Performance Evaluation Mixture (PEM) standard used for <u>both initial and continuing</u> calibrations (see SOW section 3.12.4.4, page B-52)? ✓ ___ ___

	YES	NO	N/A
ACTION: If no, take action as specified in section 3.2 above.			
7.9 For each PEM standard, was the resolution between each pair of adjacent peaks ≥ 90.0% on both columns?	✓		
ACTION: Qualify positive results for compounds not adequately resolved estimated (J). Qualify non-detects based on professional judgement.			
7.10 Have Forms VI PEST-6 & PEST-7 been completed for all midpoint Individual Standards A and B used for initial calibration?	✓		
For each standard, was the resolution between each pair of adjacent peaks ≥ 90.0% on both columns?	✓		
ACTION: If no, qualify positive results for compounds that were not adequately resolved estimated (J). Use professional judgement to determine if non-detects which elute in areas affected by co-eluting peaks should be qualified "N" as presumptive evidence of presence or unusable "R".			
7.11 Is Form VII Pest-1 present and complete for each PEM standard analyzed during the analytical sequence for both columns?	✓		
Was the %Breakdown of DDT and Endrin calculated using the equations given on page D-26/PEST, sec. 9.2.4.8 in the SOW?	✓		
Were all pesticides and surrogates in each PEM standard within the RT windows established during the Initial Calibration?	✓		
ACTION: If no, take action as specified in 3.2 above.			
7.12 Has the individual percent breakdown for DDT/Endrin exceeded 20.0% in any PEM on either column? (See Form VII PEST-1.)			
- for 4,4'-DDT?		✓	
- for Endrin?		✓	
Has the combined percent breakdown for DDT/Endrin			

YES NO N/

exceeded 30.0% in any PEM on either column (required for all PEM analyses)? ___ ✓ ___

ACTION: 1. If any percent breakdown has failed the QC criteria in either PEM in steps 2 and 17 in the initial calibration sequence (page D-28/Pest, sec. 9.2.5.6 in the SOW), qualify all samples in the entire analytical sequence as described in sections 2.a, b and c below.

2. If any percent breakdown failed the QC criteria in a PEM calibration verification analysis, review data beginning with the samples which followed the last in-control standard until the next acceptable PEM and qualify the data as described below.

a. 4,4'-DDT Breakdown: If DDT breakdown was > 20.0%:

i. Qualify all positive results for DDT with "J". If DDT was not detected, but DDD and DDE are positive, then qualify the quantitation limit for DDT unusable, "R".

ii. Qualify positive results for DDD and/or DDE as presumptively present at an approximated quantity "JN".

b. Endrin Breakdown: If endrin breakdown was > 20.0%:

i. Qualify all positive results for endrin with "J". If endrin was not detected, but endrin aldehyde and endrin ketone are positive, then qualify the quantitation limit for Endrin as unusable "R".

ii. Qualify positive results for endrin ketone and endrin aldehyde as presumptively present at an approximated quantity "JN".

c. Combined Breakdown: If the combined 4,4'-DDT and endrin breakdown is greater than 30.0%:

i. Qualify all positive results for DDT and Endrin with "J". If endrin was not detected, but endrin aldehyde and endrin ketone are positive, then qualify the quantitation limit for endrin as unusable

YES NO N/A

"R". If DDT was not detected, but DDD and DDE are positive, then qualify the quantitation limit for DDT as unusable "R".

ii. Qualify positive results for endrin ketone and endrin aldehyde as presumptively present at an approximated quantity "JN". Qualify positive results for DDD and/or DDE as presumptively present at an approximated quantity "JN".

7.13 Are all percent difference (%D) values for PEM analytes and surrogates on both columns ≥ -25% and ≤ +25.0%? (See Form VII PEST-1.) [✓] ___ ___

ACTION: If no, qualify all associated positive results generated during the analytical sequence "J" and sample quantitation limits "UJ".

NOTE: If the failing PEM is part of the initial calibration, all samples are potentially affected. If the offending standard is a calibration verification, the associated samples are those which followed the last in-control standard until the next passing standard.

7.14 Is Form VII Pest-2 present and complete for each INDA and INDB calibration verification analyzed? [✓] ___ ___

ACTION: If no, take action specified in 3.2 above.

7.15 Are there any transcription/calculation errors between raw data and Form VII Pest-2? ___ [✓] ___

ACTION: If large errors exists, take action as specified in section 3.6 above.

7.16 Do all standard retention times for each INDA and INDB calibration verification fall within the RT windows established during the initial calibration sequence? (See Form VII PEST-2.) [✓] ___ ___

ACTION: If no, beginning with the samples which followed the <u>last in-control standard</u>, check to see if the chromatograms contain peaks within an expanded window surrounding the expected retention times. If no peaks are found and the surrogates are visible, non-detects are valid. If peaks are present and cannot be identified through pattern recognition or using a revised

YES NO N/

RT window, qualify all positive results and non-detects as unusable (R).

7.17 Are all %D values for INDA and INDB calibration verification compounds ≥ -25.0% and ≤ +25.0%? ✓ ___ ___

ACTION: If the %D is outside the ±25.0% range for any compound(s), qualify associated positive results for that compound "J" and non-detects "UJ". The "associated samples" are those which followed the last in-control standard up to the next passing standard containing the analyte(s) in question. If the %D is > 90%, flag all non-detects for that analyte "R" (unusable).

8.0 Analytical Sequence Check (Form VIII-PEST)

8.1 Is Form VIII present and complete for each column and each period of analyses? ✓ ___ ___

ACTION: If no, take action specified in 3.2 above.

8.2 Was the proper analytical sequence followed for each initial calibration and subsequent analyses, and all standards analyzed at the required frequency for each GC/EC instrument used.? (See SOW pages D-23 & D-58/PEST.) ✓ ___ ___

ACTION: If no, use professional judgement to determine the severity of the effect on the data and qualify accordingly. Generally, the effect is negligible unless the sequence was grossly altered and/or the calibration was out of QC limits.

8.3 Were all samples analyzed within a 12 hour time period beginning with the injection of an instrument blank and bracketed by acceptable analyses of the proper standards? ✓ ___ ___

ACTION: If no, use professional judgement to determine the severity of the effect on the data and qualify accordingly. Document in the Data Assessment under Contract Problems/Non-Compliance and Organic Regional Data Assessment Summary.

8.4 If a multi-component analyte was detected in a sample, was a matching multi-component standard analyzed within 72 hours of the injection of the

	YES	NO	N/A
sample and within a valid 12 hour sequence?	[ ]		

NOTE: This additional standard is for identification purposes only. Positive results for Aroclors and Toxaphene are quantitated from the initial calibration.

ACTION: If no, document in the Data Assessment under Contract Problems/Non-Compliance and on the Organic Regional Data Assessment Summary form.

9.0 Cleanup Efficiency Verification (Form IX)

	YES	NO	N/A
9.1 Is Form IX PEST-1 present and complete for each lot of Florisil Cartridges used? (Florisil Cleanup is required for all Pest/PCB extracts.)	[✓]		
Are all samples listed on the Pesticide Florisil Cartridge Check Form?	[✓]		

ACTION: If no, take action specified in 3.2 above. If data suggests florisil clean-up was not performed, document in the Data Assessment under the Contract Non-compliance section.

	YES	NO	N/A
9.2 Are percent recoveries (%REC) of the pesticide and surrogate compounds used to check the efficiency of the florisil clean-up procedure within QC limits of 80 - 120%?	[✓]		

ACTION: Qualify only the analyte(s) which failed the recovery criteria as follows:

If %REC is < 80%, qualify positive results "J" and non-detects "UJ".

If any pesticide %REC was zero, flag non-detects "R" for that compound.

Use professional judgement to qualify positive results if any recoveries are > 120%.

NOTE: Sample data should be evaluated for potential interferences if recovery of 2,4,5-trichlorophenol was > 5% in the Florisil Cartridge Performance Check analysis. Document any problems found in the Data Assessment under the Contract Problems/Non-Compliance section.

	YES	NO	N/A
9.3 If GPC Cleanup was performed (mandatory for all soil sample extracts), is Form IX Pest-2 present?	[✓]	___	___
Are all soil samples listed on Form IX Pest-2?	[✓]	___	___

ACTION: If no, take action specified in 3.2 above. If data suggests GPC clean-up was not performed when required, document in the Data Assessment under the Contract Problems/Non-Compliance section and Organic Regional Data Assessment Summary.

	YES	NO	N/A
Are the %REC values for all pesticides in the GPC calibration solution between 80 - 110%?	[✓]	___	___

ACTION: Qualify only those analytes which failed the recovery criteria as follows:

If %REC are < 80%, qualify positive results "J" and non-detects "UJ".

If any pesticide %REC was zero, flag non-detects "R" for that compound.

Use professional judgement to qualify positive results if any recoveries are > 110%.

NOTE: An Aroclor mixture containing Aroclors 1016 and 1260 is also analyzed during GPC calibration; however, Aroclor data is not listed on Form IX PEST-2. The raw GPC data for Aroclors 1016/1260 must be evaluated for pattern similarity with previously analyzed Aroclor standards.

9.4 The validator should verify that the correct identification scheme for the EPA Blank samples were used. See page B-35, sec. 3.3.7.8 and 3.3.7.9 of the SOW for further information.

	YES	NO	N/A
Was the correct identification scheme used for GPC and Florisil blanks?	[✓]	___	___

10.0 Pesticide/PCB Identification

	YES	NO	N/A
10.1 Is Form X complete for every sample in which a pesticide or PCB was detected?	[✓]	___	___

ACTION: If no, take action specified in 3.2 above.

	YES	NO	N/A
10.2 Are all sample chromatograms properly scaled, attenuated, etc. as required for proper identification of single and multi-component analytes? (Refer to SOW sections 11.3.7.1 thru 11.3.7.8, page D-70/Pest for specific details.)	✓		

NOTE: Proper verification of Pest/PCB results depends on clear, legible presentation of the raw data. Single component pesticides and all peaks chosen for quantitation of multi-component analytes must appear at less than full scale. Toxaphene and PCB patterns must be clearly visible to enable comparison with standard chromatograms.

ACTION: If retention times or apex of peaks cannot be verified, or if multi-component peak patterns cannot be discerned, contact the lab to obtain rescaled chromatograms.

10.3 Are there any transcription/calculation errors between raw data and Forms 10A and 10B?		✓	

ACTION: If large errors exist, take action as specified in section 3.6 above.

10.4 Are RTs of sample compounds within the established RT windows for analyses on both columns?	✓		
Was GC/MS confirmation provided when required (when compound concentration is > 10 ug/mℓ in the final extract)?			

ACTION: Use professional judgement to qualify positive results which were not confirmed by GC/MS analysis. Qualify as unusable (R) all positive results which were not confirmed on a second GC column. Also qualify as unusable (R) all positive results which do not meet RT window criteria, unless associated standard compounds are similarly biased. Use professional judgement to assign an appropriate quantitation limit.

10.5 Is the percent difference (%D) calculated for the positive sample results on both columns > 25.0%?	✓		

ACTION: If the reviewer finds neither column shows interference for the positive hits, the data should be flagged as follows:

YES NO N/

% Difference	Qualifier
0 - 25%	None
25 - 70%	"J"
70 - 100%	"JN"
> 100%	"R"
>100% ~~100 - 200%~~ (Interference detected)*	"JN"
> 50% (Pesticide value is < CRQL)**	"U"

* When the reported %D is >100% ~~100 - 200%~~, but interference is detected on either column, qualify the data with ~~"J"~~ JN

** When the **reported** pesticide value is lower than the CRQL, and the %D is > 50%, raise the value to the CRQL and qualify "U", undetected.

NOTE: For Aroclors, if the %D is > 50%, but the pattern of GC peaks on both columns indicates a specific Aroclor is present, qualify that Aroclor "J".

NOTE: The lower of the two values is reported on Form I. If using professional judgement, the reviewer determines that the higher result was more acceptable, the reviewer should replace the value and indicate the reason for the change in the Data Assessment.

10.6 Check chromatograms for false negatives, especially the multiple-peak compounds (Toxaphene and the PCBs). Were there any false negatives? ___ [✓] ___

ACTION: Use professional judgement to decide if the compound should be reported. If the appropriate PCB standards were not analyzed within 72 hrs. of the sample(s) in question, qualify the data unusable "R".

Also note in Data Assessment under Contract Problems/Non-Compliance if the lab failed to analyze Aroclor standards when required.

11.0 Target Compound List (TCL) Analytes

11.1 Are the Organic Analysis Data Sheets (Form I Pest) present with required header information on each page, for each of the following:

a. Samples and/or fractions as appropriate? [✓] ___ ___

b. Matrix spikes and matrix spike duplicates? [✓] ___ ___

	YES	NO	N/A
c. Blanks?	[✓]	___	___
d. Instrument Blanks (per column & analysis)?	[✓]	___	___
11.2 Are the Pest chromatograms and quant. reports included in the sample data package for each of the following:			
a. Samples and/or fractions as appropriate?	[✓]	___	___
b. Matrix spikes and matrix spike duplicates?	[✓]	___	___
c. Blanks?	[✓]	___	___
d. Instrument Blanks (per column & analysis)?	[ ]	___	___
ACTION: If any data are missing, take action specified in 3.2 above.			
11.3 Are the calibration factors shown in the quant. reports?	[✓]	___	___
11.4 Is chromatographic performance acceptable with respect to:			
a. Baseline stability?	[✓]	___	___
b. Resolution?	[✓]	___	___
c. Peak shape?	[✓]	___	___
d. Full-scale graph attenuation?	[✓]	___	___
e. Other: _____?	[ ]	___	___
11.5 Were any electropositive displacement (negative peaks) or unusual peaks seen?	___	[✓]	___
ACTION: Use professional judgement to determine the acceptability of the data. Address comments under System Performance section of the Data Assessment.			

12.0 Compound Quantitation and Reported Detection Limits

12.1 Are there any transcription/calculation errors in Form I results? Check at least two positive results. Were any errors found?	___	[✓]	___

A YES NO N/A

NOTE: Single-peak pesticide results can be checked for rough agreement between quantitative results obtained on the two GC columns. Use professional judgement to decide whether a large discrepancy indicates the presence of an interfering compound. If an interfering compound is visible on the chromatogram, the lower of the two values should be reported and qualified as presumptively present at an approximated quantity "JN". This necessitates a determination of an estimated concentration on the confirmation column. The narrative should indicate that the presence of interferences has interfered with the evaluation of the second column confirmation.

12.2 Are the CRQLs adjusted to reflect sample dilutions? [ ] ___ ✓

ACTION: If large errors exist, take action as specified in section 3.6 above.

ACTION: When a sample is analyzed at more than one dilution, the lowest CRQLs are used (unless a QC exceedance dictates the use of the higher CRQLs from the diluted sample). Replace concentrations which exceed the calibration range in the original analysis by crossing out the "E" value on the original Form I and substituting it with the result from the diluted sample. Specify which Form I is to be used, then draw a red "X" across the entire page of all Form I's that should not be used, including those in the data summary package.

ACTION: Quantitation limits affected by large, off-scale peaks should be qualified as unusable (R). If the interference is on-scale, the reviewer may offer an approximated quantitation limit (UJ) for each affected compound.

NOTE: If a sample required greater than a 10 times dilution, then a 10 times more concentrated analysis must also be performed and submitted (see SOW, page D-60/PEST, section 10.2.3.5).

ACTION: If a more concentrated analysis is unavailable, document in the Contract Problems/Non-Compliance section of the Data Assessment. Use professional judgement to qualify non-detects and positive hits below the CRQL.

	YES	NO	N/A
13.0 Field Duplicates			
13.1 Were any field duplicates submitted?	[ ]	✓	

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between field duplicate results must be addressed in the reviewer narrative. However, if large differences exist, identification of field duplicates should be confirmed by contacting the sampler.

ATTACHMENT 1

CLP Data Assessment

CLP DATA ASSESSMENT

Functional Guidelines for Evaluating Organic Analysis

CASE No.: _____ SDG No.: _____ LABORATORY: _____

SITE: _____

DATA ASSESSMENT

The current SOP No. HW-6 (Revision 11), June 1996 for CLP Organics Review and Preliminary Review has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: _____ Date: _____

Verified By: _____ Date: _____

CLP DATA ASSESSMENT

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

2. SURROGATES:

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

CLP DATA ASSESSMENT

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:

B) Field or rinse blank contamination:

C) Trip blank contamination:

CLP DATA ASSESSMENT

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene and for semi-volatiles Decafluorotriphenylphosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable "R".

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

CLP DATA ASSESSMENT

7. CALIBRATION:

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".

For the PEST/PCB fraction, if %RSD exceeds 20% for all analytes except for the two surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the sample shown were qualified for %RSD and %D:

8. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

CLP DATA ASSESSMENT

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgement to determine either partial or total rejection of the data for that sample fraction.

9. COMPOUND IDENTIFICATION:

A) Volatile and Semi-Volatile Fractions:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

B) Pesticide Fraction:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract.

CLP DATA ASSESSMENT

10. CONTRACT PROBLEMS NON-COMPLIANCE:

11. FIELD DOCUMENTATION:

12. OTHER PROBLEMS:

13. This package contains reextractions, reanalyses or dilutions. Upon reviewing the QA results, the following Form 1(s) are identified to be used.

ATTACHMENT 2

Organic Regional Data Assessment Summary

MAY 05 2000

AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.

11950 Industriplex Blvd. • Baton Rouge, LA 70809 • Office (225) 753-8650 • Fax (225) 751-1405

SDG NARRATIVE

Laboratory Name: **AATSLA**, Baton Rouge, LA
Case No.: 27965
SDG No.: B01HY
Contract: 68-W0-0078

Samples were received April 14th, 2000, for organic analyses following the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) OLM04.2 and the terms of contract 68W00078. The samples are as listed below in Table I. Also included in this table are pH values obtained from water sample volatile containers measured just following the analysis of each sample (where applicable).

TABLE I

EPA Sample ID:	pH Values
B01HY	NA
B01HYMS	NA
B01HYMSD	NA
B01HZ	NA
B01J0	NA
B01J1	NA
B01J2	NA
B01J3	NA
B01J4	NA
B01J5	NA
B023C	<2
B023CMS	<2
B023CMSD	<2
B023F	<2
B023G	<2
B023H	<2
B023K	<2
B023N	<2
B023P	<2
B023T	<2
B023W	<2

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SDG NARRATIVE

General: The samples were received in separate shipments intact and on ice. The temperature of the samples at receipt was recorded as between 4 and 8°C as determined by a non contact thermometer. Cooler temperature indicators were not supplied with the coolers. 1 of 2 VOA vials for sample B023F was found broken in shipment. The laboratory proceeded with analysis using a single vial. A telephone log documenting the breakage is attached to this narrative.

All contractual holding times were met.

Volatile Organic Analysis:

All calibration, surrogate, internal standard and matrix spike control criteria were within contractual limits.

All soil samples of this SDG where analyzed using the conventional technique of extracting the sample from a jar as opposed to the method 5035 (Encore sampler) procedure. The word "jar" appears on the header of each soil quantification report.

No additional volatile billables are submitted for this SDG:

A 75m x 0.53mm ID, 3μm film DB-624 J&W Bonded, fused silica capillary column was utilized for analysis. Also a 30.5 cm Supelco Purge Trap "I" (VOCARB 4000) consisting of Carbopack C & B/Carboxen 1000 & 1001

Semi-Volatile Organic Analysis:

All calibration, internal standard, and surrogate control criteria were within normal limits. 4-Nitrophenol exhibited slightly high recovery in the MS of sample B023C.

No additional BNA billables are submitted.

Column used for semivolatile analysis:
Restek XTI-5 (Bonded fused silica, 5% Phenyl, 95% Methyl silicone), 0.25mm internal diameter, 0.25μm film thickness, 30m length.

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SDG NARRATIVE

Pesticide Organic Analysis:

The Columns used for Pesticide analysis are:

a. CLPESTICII - Restek Proprietary 0.53 mm ID, 30 m length.
b. CLPESTIC - Restek Proprietary 0.53 mm ID, 30 m length

Sample B023K showed low surrogate recoveries for DCB on both GC Columns.

Qualifications:

Volatile and semivolatile target analytes were evaluated and reported to a quantification report limit of 1.0. Compounds that were detected below this level were assessed only if they otherwise were detected as a TIC.

Note that results for xylenes as presented on quantitation reports are not calculated in accordance to the requirements of the SOW. Corrections in compliance with the SOW are manually generated and are documented on applicable quantitation reports.

Dilutions are generally performed to bring target analytes into instrument calibration range. A second level of dilution may have been reported (if performed) to provide added value. Dilutions performed for other reasons are explained elsewhere in this narrative.

Volatile soil samples analyzed using the Method 5035 technique are indicated by the word "Encore" (or like notation) on the header of the quantification report. Those performed using soil from a jar are those generally analyzed with exact sample weights of 5.0g and the word "jar" written on the quantification report header.

Quantification limits for Encore samples containing more than 5.0 grams are arbitrarily cut off at the CRQL of 10 as required by the SOW.

Manual integrations, if necessary, were performed to correct errors of automated software routines. They are represented by an "m" flag on the quantification reports and are each accompanied by hardcopy graphic displays initialed and dated by the analyst or reviewer performing the manual integration.

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SDG NARRATIVE

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature."

John Troost
GC/MS Supervisor
2 May, 2000
JT/nl

AATS

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: B01HY

Laboratory Name: American Analytical & Technical Services, Incorporated

Laboratory Code: AATSLA

Contract No.: 68-W0-0078

Case No.: 27965

Analysis Price:

SDG Turnaround: 21 Days

EPA Sample Numbers in SDG (Listed in Numberical Order)

1)	B01HY	7)	B01J4	13)	B023K	19)	
2)	B01HZ	8)	B01J5	14)	B023N	20)	
3)	B01J0	9)	B023C	15)	B023P	21)	
4)	B01J1	10)	B023F	16)	B023T	22)	
5)	B01J2	11)	B023G	17)	B023W	23)	
	B01J3	12)	B023H	18)		24)	

B01HY
First Sample in SDG

B023W
Last Sample in SDG

04/14/00
First Sample Receipt Date

04/14/00
Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Nancy LeBlanc

Date 04/24/00

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01HY

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.01

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 110A11.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 21 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	19	UJ B
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	7	J
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01HY

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.01

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 110A11.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 21 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

EPA SAMPLE NO.

B01HY

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.01

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 110A11.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 21 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	11.16	7	JN
2.		UNKNOWN	14.20	8	J
3.		UNKNOWN	20.12	20	R ~~BJ~~
4.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01HZ

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.04

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 110A14.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 15 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	19	11J B
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	5	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01HZ

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.04

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 110A14.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 15 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	
108-88-3	Toluene	11	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01HZ

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.04

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 110A14.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 15 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 420-56-4	SILANE, FLUOROTRIMETHYL-	2.67	11	JN
2.	UNKNOWN	7.71	45	J
3.	UNKNOWN	11.13	9	J
4.	UNKNOWN	14.16	8	J
5.	UNKNOWN	16.80	8	J
6.	UNKNOWN	20.07	17	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J0

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.05

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 110A15.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 22 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	18	UJ B
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	6	J
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J0

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.05

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 110A15.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 22 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J0

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.05

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 110A15.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 22 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.13	7	J
2.	UNKNOWN	16.77	6	J
3.	UNKNOWN	20.05	10	J
4.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J1

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.06

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 110A16.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 41 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	17	U
74-87-3	Chloromethane	17	U
75-01-4	Vinyl Chloride	17	U
74-83-9	Bromomethane	17	U
75-00-3	Chloroethane	17	U
75-69-4	Trichlorofluoromethane	17	U
75-35-4	1,1-Dichloroethene	17	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17	U
67-64-1	Acetone	48	UJB
75-15-0	Carbon Disulfide	17	U
79-20-9	Methyl Acetate	17	U
75-09-2	Methylene Chloride	8	J
156-60-5	trans-1,2-Dichloroethene	17	U
1634-04-4	Methyl tert-Butyl Ether	17	U
75-34-3	1,1-Dichloroethane	17	U
156-59-2	cis-1,2-Dichloroethene	17	U
78-93-3	2-Butanone	17	U
67-66-3	Chloroform	17	U
71-55-6	1,1,1-Trichloroethane	17	U
110-82-7	Cyclohexane	17	U
56-23-5	Carbon Tetrachloride	17	U
71-43-2	Benzene	17	U
107-06-2	1,2-Dichloroethane	17	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J1

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.06

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 110A16.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 41 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	17	U
108-87-2	Methylcyclohexane	17	U
78-87-5	1,2-Dichloropropane	17	U
75-27-4	Bromodichloromethane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
108-10-1	4-Methyl-2-Pentanone	17	
108-88-3	Toluene	17	
10061-02-6	trans-1,3-Dichloropropene	17	U
79-00-5	1,1,2-Trichloroethane	17	U
127-18-4	Tetrachloroethene	5	J
591-78-6	2-Hexanone	17	U
124-48-1	Dibromochloromethane	17	U
106-93-4	1,2-Dibromoethane	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
1330-20-7	Xylene (total)	17	U
100-42-5	Styrene	17	U
75-25-2	Bromoform	17	U
98-82-8	Isopropylbenzene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
541-73-1	1,3-Dichlorobenzene	17	U
106-46-7	1,4-Dichlorobenzene	17	U
95-50-1	1,2-Dichlorobenzene	17	U
96-12-8	1,2-Dibromo-3-chloropropane	17	U
120-82-1	1,2,4-Trichlorobenzene	17	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J1

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.06

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 110A16.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 41 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	11.15	10	JN
2.	UNKNOWN	14.16	15	J
3.	UNKNOWN	16.78	18	J
4.	UNKNOWN	20.06	29	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J2

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.07

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 110A17.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 22 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	35	U J B
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	5	J
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-Butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J2

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.07

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 110A17.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 22 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J2

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.07

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 110A17.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 22 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	11.11	16	JN
2.	UNKNOWN	11.50	7	J
3.	UNKNOWN	14.14	18	J
4.	UNKNOWN	16.76	26	J
5.	UNKNOWN	20.06	42	
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J3

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.08

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 110A18.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 40 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	16	U
74-87-3	Chloromethane	16	U
75-01-4	Vinyl Chloride	16	U
74-83-9	Bromomethane	16	U
75-00-3	Chloroethane	16	U
75-69-4	Trichlorofluoromethane	16	U
75-35-4	1,1-Dichloroethene	16	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16	U
67-64-1	Acetone	22	U T B
75-15-0	Carbon Disulfide	16	U
79-20-9	Methyl Acetate	16	U
75-09-2	Methylene Chloride	7	J
156-60-5	trans-1,2-Dichloroethene	16	U
1634-04-4	Methyl tert-Butyl Ether	16	U
75-34-3	1,1-Dichloroethane	16	U
156-59-2	cis-1,2-Dichloroethene	16	U
78-93-3	2-Butanone	16	U
67-66-3	Chloroform	16	U
71-55-6	1,1,1-Trichloroethane	16	U
110-82-7	Cyclohexane	16	U
56-23-5	Carbon Tetrachloride	16	U
71-43-2	Benzene	16	U
107-06-2	1,2-Dichloroethane	16	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J3

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.08

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 110A18.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 40 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	16	U
108-87-2	Methylcyclohexane	16	U
78-87-5	1,2-Dichloropropane	16	U
75-27-4	Bromodichloromethane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
108-88-3	Toluene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
79-00-5	1,1,2-Trichloroethane	16	U
127-18-4	Tetrachloroethene	16	U
591-78-6	2-Hexanone	16	U
124-48-1	Dibromochloromethane	16	U
106-93-4	1,2-Dibromoethane	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
1330-20-7	Xylene (total)	16	U
100-42-5	Styrene	16	U
75-25-2	Bromoform	16	U
98-82-8	Isopropylbenzene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
541-73-1	1,3-Dichlorobenzene	16	U
106-46-7	1,4-Dichlorobenzene	16	U
95-50-1	1,2-Dichlorobenzene	16	U
96-12-8	1,2-Dibromo-3-chloropropane	16	U
120-82-1	1,2,4-Trichlorobenzene	16	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J3

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.08

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 110A18.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 40 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	11.13	14	JN
2.		UNKNOWN	14.16	14	J
3.		UNKNOWN	16.76	22	J
4.		UNKNOWN	20.04	52	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J4

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.09

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 110A19.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 57 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	19	U
74-87-3	Chloromethane	19	U
75-01-4	Vinyl Chloride	19	U
74-83-9	Bromomethane	19	U
75-00-3	Chloroethane	19	U
75-69-4	Trichlorofluoromethane	19	
75-35-4	1,1-Dichloroethene	19	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19	U
67-64-1	Acetone	40	UJ B
75-15-0	Carbon Disulfide	19	U
79-20-9	Methyl Acetate	19	U
75-09-2	Methylene Chloride	6	J
156-60-5	trans-1,2-Dichloroethene	19	U
1634-04-4	Methyl tert-Butyl Ether	19	U
75-34-3	1,1-Dichloroethane	19	U
156-59-2	cis-1,2-Dichloroethene	19	U
78-93-3	2-Butanone	19	U
67-66-3	Chloroform	19	U
71-55-6	1,1,1-Trichloroethane	19	U
110-82-7	Cyclohexane	19 ~~2~~	U ~~BJ~~
56-23-5	Carbon Tetrachloride	19	U
71-43-2	Benzene	19	U
107-06-2	1,2-Dichloroethane	19	U

J

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J4

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.09

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 110A19.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 57 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	19	U
108-87-2	Methylcyclohexane	19	U
78-87-5	1,2-Dichloropropane	19	U
75-27-4	Bromodichloromethane	19	U
10061-01-5	cis-1,3-Dichloropropene	19	U
108-10-1	4-Methyl-2-Pentanone	19	U
108-88-3	Toluene	19	U
10061-02-6	trans-1,3-Dichloropropene	19	U
79-00-5	1,1,2-Trichloroethane	19	U
127-18-4	Tetrachloroethene	3	J
591-78-6	2-Hexanone	19	U
124-48-1	Dibromochloromethane	19	U
106-93-4	1,2-Dibromoethane	19	U
108-90-7	Chlorobenzene	19	U
100-41-4	Ethylbenzene	19	U
1330-20-7	Xylene (total)	19	U
100-42-5	Styrene	19	U
75-25-2	Bromoform	19	U
98-82-8	Isopropylbenzene	19	U
79-34-5	1,1,2,2-Tetrachloroethane	19	U
541-73-1	1,3-Dichlorobenzene	19	U
106-46-7	1,4-Dichlorobenzene	19	U
95-50-1	1,2-Dichlorobenzene	19	U
96-12-8	1,2-Dibromo-3-chloropropane	19	U
120-82-1	1,2,4-Trichlorobenzene	19	U

J

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J4

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.09

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 110A19.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 57 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.12	16	J
2.		UNKNOWN	11.49	33	J
3.		UNKNOWN	14.14	31	J
4.		UNKNOWN	16.76	23	J
5.		UNKNOWN	20.04	40	
6.		U			
7.		U			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J5

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.10

Sample wt/vol: 5.4 (g/mL) G Lab File ID: 110A20.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 43 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	16	U
74-87-3	Chloromethane	16	U
75-01-4	Vinyl Chloride	16	U
74-83-9	Bromomethane	16	U
75-00-3	Chloroethane	16	U
75-69-4	Trichlorofluoromethane	16	U
75-35-4	1,1-Dichloroethene	16	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16	U
67-64-1	Acetone	28	UJ B
75-15-0	Carbon Disulfide	16	U
79-20-9	Methyl Acetate	16	U
75-09-2	Methylene Chloride	4	J
156-60-5	trans-1,2-Dichloroethene	16	U
1634-04-4	Methyl tert-Butyl Ether	16	U
75-34-3	1,1-Dichloroethane	16	U
156-59-2	cis-1,2-Dichloroethene	16	U
78-93-3	2-Butanone	16	U
67-66-3	Chloroform	16	U
71-55-6	1,1,1-Trichloroethane	16	U
110-82-7	Cyclohexane	16	U
56-23-5	Carbon Tetrachloride	16	U
71-43-2	Benzene	16	U
107-06-2	1,2-Dichloroethane	16	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J5

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.10

Sample wt/vol: 5.4 (g/mL) G Lab File ID: 110A20.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 43 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	16	U
108-87-2	Methylcyclohexane	16	U
78-87-5	1,2-Dichloropropane	16	U
75-27-4	Bromodichloromethane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
108-88-3	Toluene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
79-00-5	1,1,2-Trichloroethane	16	U
127-18-4	Tetrachloroethene	16	U
591-78-6	2-Hexanone	16	U
124-48-1	Dibromochloromethane	16	U
106-93-4	1,2-Dibromoethane	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
1330-20-7	Xylene (total)	16	U
100-42-5	Styrene	16	U
75-25-2	Bromoform	16	U
98-82-8	Isopropylbenzene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
541-73-1	1,3-Dichlorobenzene	16	U
106-46-7	1,4-Dichlorobenzene	16	U
95-50-1	1,2-Dichlorobenzene	16	U
96-12-8	1,2-Dibromo-3-chloropropane	16	U
120-82-1	1,2,4-Trichlorobenzene	16	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J5

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.10

Sample wt/vol: 5.4 (g/mL) G Lab File ID: 110A20.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. 43 Date Analyzed: 04/19/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.12	9	J
2.		UNKNOWN	14.13	10	J
3.		UNKNOWN	16.76	15	J
4.		UNKNOWN	20.03	31	J
5.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023C

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.11

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A11.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023C

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.11

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A11.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023C

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.11

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A11.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.	U			
6.	U			
7.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023F

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.14

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A10.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10 ~~3~~	U ~~J~~
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023F

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.14

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A10.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023F

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.14

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A10.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023G

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.15

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A12.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	~~10~~	~~U~~ J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023G

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.15

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A12.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023G

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.15

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A12.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023H

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.16

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A13.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	
75-35-4	1,1-Dichloroethene	10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023H

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.16

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A13.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

EPA SAMPLE NO.

B023H

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.16

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A13.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023K

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.17

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A14.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023K

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.17

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A14.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023K

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.17

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A14.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023N

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.18

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A15.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023N

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.18

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A15.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

EPA SAMPLE NO.

B023N

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.18

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A15.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023P

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.19

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A16.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023P

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.19

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A16.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023P

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.19

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A16.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023T
RINSE BLANK

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.20

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A17.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023T

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.20

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A17.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023T

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.20

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A17.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023W
TRIP BLANK

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.21

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A18.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023W

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.21

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A18.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

EPA SAMPLE NO.

B023W

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.21

Sample wt/vol: 5 (g/mL) ML Lab File ID: 111A18.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: not dec. _____ Date Analyzed: 04/20/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01HY

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F15.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 21 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01HY

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F15.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 21 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U J
100-02-7	4-Nitrophenol	1100	U J
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U J
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	~~84~~ 420	~~J~~
206-44-0	Fluoranthene	52	J
129-00-0	Pyrene	55	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~230~~ 420	U ~~BJ~~
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenz(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01HY

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F15.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 21 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Extraction: (Type) SONC

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 17

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.24	170	R ~~BJ~~
2.		UNKNOWN	3.28	410	R ~~BJ~~
3.	541-02-6	CYCLOPENTASILOXANE, DECAMETH	4.14	130	R ~~BJN~~
4.	95-16-9	BENZOTHIAZOLE	4.82	120	R ~~BJN~~
5.	57-10-3	HEXADECANOIC ACID	9.04	130	J
6.	149-30-4	2-MERCAPTOBENZOTHIAZOLE	9.36	220	R ~~BJN~~
7.		UNKNOWN	11.34	230	R ~~BJ~~
8.		UNKNOWN	13.13	160	J
9.		UNKNOWN	13.45	100	J
10.	7390-81-0	OXIRANE, HEXADECYL-	13.99	160	JN
11.		UNKNOWN	14.87	100	J
12.		UNKNOWN	15.02	110	J
13.		UNKNOWN	16.10	240	J
14.		UNKNOWN	16.29	130	J
15.		UNKNOWN	16.47	90	J
16.		UNKNOWN	16.66	130	J
17.	1058-61-3	STIGMAST-4-EN-3-ONE	17.16	160	JN
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01HZ

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F18.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 15 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	390	U J
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U J
87-68-3	Hexachlorobutadiene	390	U J
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	980	U
92-52-4	1,1'-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	390	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01HZ

Lab Name: AATSLA | Contract: 68-W0-0078

Lab Code: AATSLA | Case No.: 27965 | SAS No.: | SDG No.: B01HY

Matrix: (soil/water) SOIL | Lab Sample ID: 41819.04

Sample wt/vol: 30.0 (g/mL) G | Lab File ID: 110F18.D

Level: (low/med) LOW | Date Received: 04/14/00

% Moisture: 15 decanted: (Y/N) N | Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) | Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) | Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 | Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	980	U J
100-02-7	4-Nitrophenol	980	U J
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	980	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	~~230~~ 390	U ~~J~~
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~91~~ 390	U ~~BJ~~
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenz(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01HZ

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F18.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 15 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.22	250	R ~~BJ~~
2.		UNKNOWN	3.28	400	R ~~BJ~~
3.	541-02-6	CYCLOPENTASILOXANE, DECAMETH	4.14	110	R ~~BJN~~
4.	57-10-3	HEXADECANOIC ACID	9.04	89	JN
5.		UNKNOWN	11.34	110	R ~~BJ~~
6.		UNKNOWN	13.43	98	J
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J0

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F19.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	63	J
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J0

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F19.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U J
100-02-7	4-Nitrophenol	1100	U J
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U J
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenz(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J0

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F19.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.12	450	J
2.	UNKNOWN	3.23	200	R ~~BJ~~
3.	UNKNOWN	3.28	380	R ~~BJ~~
4. 541-02-6	CYCLOPENTASILOXANE, DECAMETH	4.14	110	R ~~BJN~~
5. 544-63-8	TETRADECANOIC ACID	8.26	130	JN
6. 2091-29-4	9-HEXADECENOIC ACID	8.97	330	JN
7. 57-10-3	HEXADECANOIC ACID	9.06	460	JN
8.	UNKNOWN	9.29	130	J
9. 149-30-4	2-MERCAPTOBENZOTHIAZOLE	9.36	140	R ~~BJN~~
10.	UNKNOWN	10.02	110	J
11.	UNKNOWN	10.05	210	J
12.	UNKNOWN	11.34	500	R ~~BJ~~
13.	UNKNOWN	11.71	270	J
14. 1454-84-8	1-NONADECANOL	12.59	550	JN
15.	UNKNOWN	13.14	440	J
16. 629-96-9	1-EICOSANOL	13.41	510	JN
17.	UNKNOWN	13.46	180	J
18. 638-66-4	OCTADECANAL	13.55	110	JN
19.	1-HEXACOSANAL	13.99	420	JN
20. 629-96-9	1-EICOSANOL	14.32	190	JN
21.	UNKNOWN	14.36	240	J
22. 57-88-5	CHOLESTEROL	14.85	120	JN
23. 77899-10-6	(Z)14-TRICOSENYL FORMATE	15.02	190	JN
24.	UNKNOWN	15.49	280	J
25.	UNKNOWN	15.69	140	J
26. 83-47-6	.GAMMA.-SITOSTEROL	16.10	560	JN
27.	UNKNOWN	16.18	120	J
28.	UNKNOWN	16.97	190	J
29. 1058-61-3	STIGMAST-4-EN-3-ONE	17.18	470	JN
30.	UNKNOWN	18.18	230	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J1

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F20.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 41 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	85	~~U~~ J
108-95-2	Phenol	560	U
111-44-4	bis(2-Chloroethyl)ether	560	U
95-57-8	2-Chlorophenol	560	U
95-48-7	2-Methylphenol	560	U
108-60-1	2,2'-oxybis(1-Chloropropane)	560	U
98-86-2	Acetophenone	560	U
106-44-5	4-Methylphenol	560	U
621-64-7	N-Nitroso-di-n-propylamine	560	U
67-72-1	Hexachloroethane	560	U
98-95-3	Nitrobenzene	560	U
78-59-1	Isophorone	560	U
88-75-5	2-Nitrophenol	560	U
105-67-9	2,4-Dimethylphenol	560	U
111-91-1	bis(2-Chloroethoxy)methane	560	U
120-83-2	2,4-Dichlorophenol	560	U
91-20-3	Naphthalene	560	U
106-47-8	4-Chloroaniline	560	U
87-68-3	Hexachlorobutadiene	560	U
105-60-2	Caprolactam	560	U
59-50-7	4-Chloro-3-methylphenol	560	U
91-57-6	2-Methylnaphthalene	560	U
77-47-4	Hexachlorocyclopentadiene	560	U
88-06-2	2,4,6-Trichlorophenol	560	U
95-95-4	2,4,5-Trichlorophenol	1400	U
92-52-4	1,1'-Biphenyl	560	U
91-58-7	2-Chloronaphthalene	560	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	560	U
606-20-2	2,6-Dinitrotoluene	560	U
208-96-8	Acenaphthylene	560	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	560	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J1

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F20.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 41 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U J
100-02-7	4-Nitrophenol	1400	U J
132-64-9	Dibenzofuran	560	U
121-14-2	2,4-Dinitrotoluene	560	U
84-66-2	Diethylphthalate	560	U
86-73-7	Fluorene	560	U
7005-72-3	4-Chlorophenyl-phenylether	560	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-Nitrosodiphenylamine (1)	560	U
101-55-3	4-Bromophenyl-phenylether	560	U
118-74-1	Hexachlorobenzene	560	U
1912-24-9	Atrazine	560	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	560	U
120-12-7	Anthracene	560	U
86-74-8	Carbazole	560	U
84-74-2	Di-n-butylphthalate	560	U
206-44-0	Fluoranthene	560	U
129-00-0	Pyrene	560	U
85-68-7	Butylbenzylphthalate	560	U
91-94-1	3,3'-Dichlorobenzidine	560	U
56-55-3	Benzo(a)anthracene	560	U
218-01-9	Chrysene	560	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~61~~ 560	U ~~BJ~~
117-84-0	Di-n-octylphthalate	560	U
205-99-2	Benzo(b)fluoranthene	560	U
207-08-9	Benzo(k)fluoranthene	560	U
50-32-8	Benzo(a)pyrene	560	U
193-39-5	Indeno(1,2,3-cd)pyrene	560	U
53-70-3	Dibenz(a,h)anthracene	560	U
191-24-2	Benzo(g,h,i)perylene	560	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J1

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F20.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 41 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.13	1700	J
2.		UNKNOWN	3.28	510	R ~~BJ~~
3.		UNKNOWN	8.97	460	J
4.	57-10-3	HEXADECANOIC ACID	9.07	850	JN
5.		UNKNOWN	9.32	490	J
6.	112-80-1	OLEIC ACID	10.05	620	JN
7.		UNKNOWN	11.36	470	R ~~BJ~~
8.	56554-86-0	17-OCTADECENAL	11.43	790	JN
9.		UNKNOWN	11.73	480	J
10.	661-19-8	1-DOCOSANOL	12.60	570	JN
11.		UNKNOWN	12.63	610	J
12.		UNKNOWN	12.74	650	J
13.		UNKNOWN	13.15	600	J
14.		1-HEXACOSANAL	14.01	780	JN
15.	661-19-8	1-DOCOSANOL	14.32	470	JN
16.		UNKNOWN	14.67	580	J
17.		UNKNOWN	14.92	410	J
18.	638-66-4	OCTADECANAL	15.04	380	JN
19.		UNKNOWN	15.52	700	J
20.		UNKNOWN	15.70	600	J
21.	83-47-6	.GAMMA.-SITOSTEROL	16.13	2900	JN
22.		UNKNOWN	16.35	630	J
23.		UNKNOWN	16.53	720	J
24.		UNKNOWN	16.71	930	J
25.		UNKNOWN	16.82	380	J
26.		UNKNOWN	16.98	1500	J
27.	1058-61-3	STIGMAST-4-EN-3-ONE	17.21	990	JN
28.		UNKNOWN	17.52	880	J
29.		UNKNOWN	17.99	440	J
30.		UNKNOWN	18.21	1000	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J2

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F21.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	61	J
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J2

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F21.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	1100	U J
100-02-7	4-Nitrophenol	1100	U J
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U J
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	~~73~~ 420	U ~~J~~
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	65	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~81~~ 420	U ~~BJ~~
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenz(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J2

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F21.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.12	430	J
2.		UNKNOWN	3.23	210	R ~~BJ~~
3.		UNKNOWN	3.28	390	R ~~BJ~~
4.	541-02-6	CYCLOPENTASILOXANE, DECAMETH	4.14	100	R ~~BJN~~
5.	544-63-8	TETRADECANOIC ACID	8.26	140	JN
6.		UNKNOWN	8.96	120	J
7.	57-10-3	HEXADECANOIC ACID	9.05	280	JN
8.	112-80-1	OLEIC ACID	10.05	170	JN
9.		UNKNOWN	11.34	110	R ~~BJ~~
10.	56554-90-6	13-OCTADECENAL	11.41	100	JN
11.	1454-84-8	1-NONADECANOL	12.59	130	JN
12.		UNKNOWN	13.14	420	J
13.	629-96-9	1-EICOSANOL	13.41	540	JN
14.		UNKNOWN	13.66	310	J
15.		1-HEXACOSANAL	14.00	300	JN
16.	629-96-9	1-EICOSANOL	14.31	190	JN
17.		UNKNOWN	14.48	93	J
18.		UNKNOWN	14.66	170	J
19.	56554-86-0	17-OCTADECENAL	15.03	250	JN
20.		UNKNOWN	15.49	160	J
21.		UNKNOWN	15.65	330	J
22.	83-47-6	.GAMMA.-SITOSTEROL	16.10	660	JN
23.		UNKNOWN	16.50	110	J
24.	4677-90-1	CYCLOPROPA[D]NAPHTHALEN-2(4A	16.96	200	JN
25.	1058-61-3	STIGMAST-4-EN-3-ONE	17.18	500	JN
26.		UNKNOWN	17.97	450	J
27.		UNKNOWN	18.20	890	J
28.					
29.					
30.					

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J3

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F22.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 40 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	58	JT
108-95-2	Phenol	550	U
111-44-4	bis(2-Chloroethyl)ether	550	U
95-57-8	2-Chlorophenol	550	U
95-48-7	2-Methylphenol	550	U
108-60-1	2,2'-oxybis(1-Chloropropane)	550	U
98-86-2	Acetophenone	550	U
106-44-5	4-Methylphenol	550	U
621-64-7	N-Nitroso-di-n-propylamine	550	U
67-72-1	Hexachloroethane	550	U
98-95-3	Nitrobenzene	550	U
78-59-1	Isophorone	550	U
88-75-5	2-Nitrophenol	550	U
105-67-9	2,4-Dimethylphenol	550	U
111-91-1	bis(2-Chloroethoxy)methane	550	U
120-83-2	2,4-Dichlorophenol	550	U
91-20-3	Naphthalene	550	U
106-47-8	4-Chloroaniline	550	U
87-68-3	Hexachlorobutadiene	550	U
105-60-2	Caprolactam	550	U
59-50-7	4-Chloro-3-methylphenol	550	U
91-57-6	2-Methylnaphthalene	550	U
77-47-4	Hexachlorocyclopentadiene	550	U
88-06-2	2,4,6-Trichlorophenol	550	U
95-95-4	2,4,5-Trichlorophenol	1400	U
92-52-4	1,1'-Biphenyl	550	U
91-58-7	2-Chloronaphthalene	550	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	550	U
606-20-2	2,6-Dinitrotoluene	550	U
208-96-8	Acenaphthylene	550	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	550	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J3

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F22.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 40 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U J
100-02-7	4-Nitrophenol	1400	U J
132-64-9	Dibenzofuran	550	U
121-14-2	2,4-Dinitrotoluene	550	U
84-66-2	Diethylphthalate	550	U
86-73-7	Fluorene	550	U
7005-72-3	4-Chlorophenyl-phenylether	550	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-Nitrosodiphenylamine (1)	550	U
101-55-3	4-Bromophenyl-phenylether	550	U
118-74-1	Hexachlorobenzene	550	U
1912-24-9	Atrazine	550	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	550	U
120-12-7	Anthracene	550	U
86-74-8	Carbazole	550	U
84-74-2	Di-n-butylphthalate	550	U
206-44-0	Fluoranthene	550	U
129-00-0	Pyrene	550	U
85-68-7	Butylbenzylphthalate	550	U
91-94-1	3,3'-Dichlorobenzidine	550	U
56-55-3	Benzo(a)anthracene	550	U
218-01-9	Chrysene	550	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~180~~ 550	U ~~BJ~~
117-84-0	Di-n-octylphthalate	550	U
205-99-2	Benzo(b)fluoranthene	550	U
207-08-9	Benzo(k)fluoranthene	550	U
50-32-8	Benzo(a)pyrene	550	U
193-39-5	Indeno(1,2,3-cd)pyrene	550	U
53-70-3	Dibenz(a,h)anthracene	550	U
191-24-2	Benzo(g,h,i)perylene	550	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J3

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F22.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 40 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.12	380	J
2.	UNKNOWN	3.28	530	R ~~BJ~~
3. 57-10-3	HEXADECANOIC ACID	9.06	650	JN
4. 2091-29-4	9-HEXADECENOIC ACID	10.03	330	JN
5.	UNKNOWN	10.06	390	J
6.	UNKNOWN	11.71	580	J
7. 638-66-4	OCTADECANAL	12.31	420	JN
8.	UNKNOWN	12.65	230	J
9.	UNKNOWN	12.87	290	J
10.	UNKNOWN	13.00	250	J
11.	UNKNOWN	13.14	1300	J
12.	UNKNOWN	13.46	300	J
13. 7390-81-0	OXIRANE, HEXADECYL-	13.56	240	JN
14.	1-HEXACOSANAL	14.00	1100	JN
15. 1454-84-8	1-NONADECANOL	14.32	300	JN
16.	2-NONACOSANONE	14.38	520	JN
17.	UNKNOWN	14.58	230	J
18. 59-02-9	VITAMIN E	14.66	280	JN
19. 7390-81-0	OXIRANE, HEXADECYL-	15.03	580	JN
20.	UNKNOWN	15.51	640	J
21. 83-47-6	.GAMMA.-SITOSTEROL	16.11	1500	JN
22.	UNKNOWN	16.19	260	J
23.	UNKNOWN	16.24	300	J
24.	UNKNOWN	16.36	440	J
25.	UNKNOWN	16.51	210	J
26.	UNKNOWN	16.91	380	J
27.	UNKNOWN	16.99	550	J
28. 1058-61-3	STIGMAST-4-EN-3-ONE	17.20	1500	JN
29.	UNKNOWN	17.99	470	J
30.	UNKNOWN	18.21	1100	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J4

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F23.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 57 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	~~U~~ J
108-95-2	Phenol	770	U
111-44-4	bis(2-Chloroethyl)ether	770	U
95-57-8	2-Chlorophenol	770	U
95-48-7	2-Methylphenol	770	U
108-60-1	2,2'-oxybis(1-Chloropropane)	770	U
98-86-2	Acetophenone	770	U
106-44-5	4-Methylphenol	770	U
621-64-7	N-Nitroso-di-n-propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	770	U
105-67-9	2,4-Dimethylphenol	770	U
111-91-1	bis(2-Chloroethoxy)methane	770	U
120-83-2	2,4-Dichlorophenol	770	U
91-20-3	Naphthalene	770	U
106-47-8	4-Chloroaniline	770	U
87-68-3	Hexachlorobutadiene	770	U
105-60-2	Caprolactam	770	U
59-50-7	4-Chloro-3-methylphenol	770	U
91-57-6	2-Methylnaphthalene	770	U
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	1900	U
92-52-4	1,1'-Biphenyl	770	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	770	U
606-20-2	2,6-Dinitrotoluene	770	U
208-96-8	Acenaphthylene	770	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	770	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J4

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F23.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 57 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1900	U J
100-02-7	4-Nitrophenol	1900	U J
132-64-9	Dibenzofuran	770	U
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	770	U
86-73-7	Fluorene	770	U
7005-72-3	4-Chlorophenyl-phenylether	770	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U J
86-30-6	N-Nitrosodiphenylamine (1)	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
1912-24-9	Atrazine	770	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	770	U
120-12-7	Anthracene	770	U
86-74-8	Carbazole	770	U
84-74-2	Di-n-butylphthalate	~~100~~ 770	U ~~J~~
206-44-0	Fluoranthene	770	U
129-00-0	Pyrene	770	U
85-68-7	Butylbenzylphthalate	770	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	770	U
218-01-9	Chrysene	770	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~300~~ 770	U ~~BJ~~
117-84-0	Di-n-octylphthalate	770	U
205-99-2	Benzo(b)fluoranthene	770	U
207-08-9	Benzo(k)fluoranthene	770	U
50-32-8	Benzo(a)pyrene	770	U
193-39-5	Indeno(1,2,3-cd)pyrene	770	U
53-70-3	Dibenz(a,h)anthracene	770	U
191-24-2	Benzo(g,h,i)perylene	770	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J4

Lab Name: AATSLA | Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F23.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 57 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.14	3400	J
2.	2091-29-4	9-HEXADECENOIC ACID	9.02	2100	JN
3.		UNKNOWN	9.33	1200	J
4.	112-80-1	OLEIC ACID	10.09	2400	JN
5.		UNKNOWN	10.11	1200	J
6.	57-11-4	OCTADECANOIC ACID	10.18	1100	JN
7.	638-66-4	OCTADECANAL	11.44	910	JN
8.	27519-02-4	9-TRICOSENE, (Z)-	12.14	890	JN
9.	56554-86-0	17-OCTADECENAL	12.34	1200	JN
10.	2765-11-9	PENTADECANAL-	13.18	2500	JN
11.		2-HEPTACOSANONE	13.50	960	JN
12.		UNKNOWN	13.59	960	J
13.	56554-93-9	15-OCTADECENAL	14.04	2800	JN
14.		UNKNOWN	14.42	1100	J
15.		UNKNOWN	14.52	760	J
16.	59-02-9	VITAMIN E	14.71	2200	JN
17.	638-66-4	OCTADECANAL	15.08	2400	JN
18.		UNKNOWN	15.56	770	J
19.		UNKNOWN	16.02	950	J
20.	83-47-6	.GAMMA.-SITOSTEROL	16.20	6600	JN
21.		UNKNOWN	16.29	1000	J
22.		UNKNOWN	16.41	2200	J
23.		UNKNOWN	16.50	1100	J
24.		UNKNOWN	16.64	1200	J
25.		UNKNOWN	16.79	970	J
26.	6754-66-1	5(1H)-AZULENONE, 2,4,6,7,8,8	17.03	970	JN
27.	1058-61-3	STIGMAST-4-EN-3-ONE	17.29	4600	JN
28.		UNKNOWN	17.65	1400	J
29.		UNKNOWN	18.07	2100	J
30.		UNKNOWN	18.30	3100	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J5

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F24.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 43 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	280	J
108-95-2	Phenol	580	U
111-44-4	bis(2-Chloroethyl)ether	580	U
95-57-8	2-Chlorophenol	580	U
95-48-7	2-Methylphenol	580	U
108-60-1	2,2'-oxybis(1-Chloropropane)	580	U
98-86-2	Acetophenone	580	U
106-44-5	4-Methylphenol	580	U
621-64-7	N-Nitroso-di-n-propylamine	580	U
67-72-1	Hexachloroethane	580	U
98-95-3	Nitrobenzene	580	U
78-59-1	Isophorone	580	U
88-75-5	2-Nitrophenol	580	U
105-67-9	2,4-Dimethylphenol	580	U
111-91-1	bis(2-Chloroethoxy)methane	580	U
120-83-2	2,4-Dichlorophenol	580	U
91-20-3	Naphthalene	580	U
106-47-8	4-Chloroaniline	580	U
87-68-3	Hexachlorobutadiene	580	U
105-60-2	Caprolactam	580	U
59-50-7	4-Chloro-3-methylphenol	580	U
91-57-6	2-Methylnaphthalene	580	U
77-47-4	Hexachlorocyclopentadiene	580	U
88-06-2	2,4,6-Trichlorophenol	580	U
95-95-4	2,4,5-Trichlorophenol	1500	U
92-52-4	1,1'-Biphenyl	580	U
91-58-7	2-Chloronaphthalene	580	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	580	U
606-20-2	2,6-Dinitrotoluene	580	U
208-96-8	Acenaphthylene	580	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	580	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J5

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F24.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 43 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500	U J
100-02-7	4-Nitrophenol	1500	U J
132-64-9	Dibenzofuran	580	U
121-14-2	2,4-Dinitrotoluene	580	U
84-66-2	Diethylphthalate	580	U
86-73-7	Fluorene	580	U
7005-72-3	4-Chlorophenyl-phenylether	580	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-Nitrosodiphenylamine (1)	580	
101-55-3	4-Bromophenyl-phenylether	580	U
118-74-1	Hexachlorobenzene	580	U
1912-24-9	Atrazine	580	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	580	U
120-12-7	Anthracene	580	U
86-74-8	Carbazole	580	U
84-74-2	Di-n-butylphthalate	~~68~~ 580	U ~~J~~
206-44-0	Fluoranthene	580	U
129-00-0	Pyrene	580	U
85-68-7	Butylbenzylphthalate	580	U
91-94-1	3,3'-Dichlorobenzidine	580	U
56-55-3	Benzo(a)anthracene	580	U
218-01-9	Chrysene	580	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~190~~ 580	U ~~BJ~~
117-84-0	Di-n-octylphthalate	580	U
205-99-2	Benzo(b)fluoranthene	580	U
207-08-9	Benzo(k)fluoranthene	580	U
50-32-8	Benzo(a)pyrene	580	U
193-39-5	Indeno(1,2,3-cd)pyrene	580	U
53-70-3	Dibenz(a,h)anthracene	580	U
191-24-2	Benzo(g,h,i)perylene	580	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B01J5

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 110F24.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: 43 decanted: (Y/N) N Date Extracted: 04/17/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.13	1800	J
2.	2091-29-4	9-HEXADECENOIC ACID	9.01	1600	JN
3.	57-10-3	HEXADECANOIC ACID	9.11	1500	JN
4.		UNKNOWN	9.33	810	J
5.	112-80-1	OLEIC ACID	10.08	1500	JN
6.		UNKNOWN	10.10	680	J
7.		UNKNOWN	10.42	610	J
8.	56554-86-0	17-OCTADECENAL	11.44	690	JN
9.		UNKNOWN	12.34	890	J
10.		UNKNOWN	12.76	620	J
11.	765-27-5	1-EICOSYNE	13.19	2300	JN
12.		2-HEPTACOSANONE	13.50	800	JN
13.		UNKNOWN	13.59	840	J
14.	56554-87-1	16-OCTADECENAL	14.05	2400	JN
15.		UNKNOWN	14.42	930	J
16.		UNKNOWN	14.52	660	J
17.	59-02-9	VITAMIN E	14.71	1600	JN
18.		1-HEXACOSANAL	15.09	2800	JN
19.		UNKNOWN	15.21	2000	J
20.		UNKNOWN	15.25	2300	J
21.		UNKNOWN	15.56	720	J
22.		UNKNOWN	16.02	1100	J
23.	83-47-6	.GAMMA.-SITOSTEROL	16.19	3600	JN
24.		UNKNOWN	16.41	1100	J
25.	6754-66-1	5(1H)-AZULENONE, 2,4,6,7,8,8	16.78	870	JN
26.		UNKNOWN	17.03	600	J
27.	1058-61-3	STIGMAST-4-EN-3-ONE	17.29	3600	JN
28.		UNKNOWN	17.65	960	J
29.		UNKNOWN	18.06	1400	J
30.		UNKNOWN	18.29	1900	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023C

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.11

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F04.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U J
87-68-3	Hexachlorobutadiene	10	U J
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023C

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.11

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F04.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023C

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.11

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F04.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
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27.					
28.					
29.					
30.					

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023F

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.14

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F07.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U J
87-68-3	Hexachlorobutadiene	10	U J
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023F

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.14

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F07.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	~~1~~ 10	~~U~~
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~3~~ 10	U BJ
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023F

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.14

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F07.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023G

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.15

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F08.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U J
87-68-3	Hexachlorobutadiene	10	U J
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023G

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.15

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F08.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~2~~ 10	U BJ
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023G

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.15

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F08.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.24	3	R ~~BJ~~
2.	21400-25-9	1-PROPENE, 1,1,2-TRICHLORO-	3.29	2	R ~~BJN~~
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023H

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.16

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F09.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U J
87-68-3	Hexachlorobutadiene	10	U J
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023H

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.16

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F09.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023H

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.16

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F09.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023K

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.17

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F10.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U J
87-68-3	Hexachlorobutadiene	10	U J
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023K

Lab Name: AATSLA | Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.17

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F10.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	~~2~~ 10	~~U J~~
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~3~~ 10	U BJ
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023K

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.17

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F10.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	629-96-9	1-EICOSANOL	13.44	2	JN
2.					
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023N

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.18

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 111F04.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/20/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U J
87-68-3	Hexachlorobutadiene	10	U J
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023N

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.18

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 111F04.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/20/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	~~2~~ 10	U ~~J~~
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~3~~ 10	U BJ
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023N

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.18

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 111F04.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/20/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.10	2	J
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023P

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.19

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F12.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U J
87-68-3	Hexachlorobutadiene	10	U J
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023P

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.19

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F12.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023P

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.19

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F12.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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000647

EPA SAMPLE NO.

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

B023T RINSE BLANK

Lab Name: AATSLA — Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.20

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F13.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U J
87-68-3	Hexachlorobutadiene	10	U J
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

000648

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023T
RINSE BLANK

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.20

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F13.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	4	J
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B023T

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.20

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 110F13.D

Level: (low/med) LOW Date Received: 04/14/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/19/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01HY

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 Decanted: (Y/N) N Date Received: 04/14/00

Extraction: (Type) SONC Date Extracted: 04/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	~~22~~ 16	U ~~JB~~
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U J
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01HZ

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 15 Decanted: (Y/N) N Date Received: 04/14/00

Extraction: (Type) SONC Date Extracted: 04/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	~~9.5~~ 20	~~UJ~~ RJB
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U J
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J0

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 22 Decanted: (Y/N) N Date Received: 04/14/00

Extraction: (Type) SONC Date Extracted: 04/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	0.89	J
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	~~2.0~~ 22	~~PJB~~ JN
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U I
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J1

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 41 Decanted: (Y/N) N Date Received: 04/14/00

Extraction: (Type) SONC Date Extracted: 04/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.9	U
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC (Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	5.6	U
72-55-9	4,4'-DDE	5.6 ~~1.2~~	R ~~PU~~
72-20-8	Endrin	5.6	U
33213-65-9	Endosulfan II	5.6	U
72-54-8	4,4'-DDD	5.6	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	5.6	U
72-43-5	Methoxychlor	29	U J
53494-70-5	Endrin ketone	5.6	U
7421-93-4	Endrin aldehyde	5.6	U J
5103-71-9	alpha-Chlordane	2.9	U
5103-74-2	gamma-Chlordane	2.9	U
8001-35-2	Toxaphene	290	U
12674-11-2	Aroclor-1016	56	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	56	U
53469-21-9	Aroclor-1242	56	U
12672-29-6	Aroclor-1248	56	U
11097-69-1	Aroclor-1254	56	U
11096-82-5	Aroclor-1260	56	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J2

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 22 Decanted: (Y/N) N Date Received: 04/14/00

Extraction: (Type) SONC Date Extracted: 04/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	~~2.1~~ 2.2	~~PJ~~ R
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	1.6	~~PJ~~ R
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	~~5.5~~ 2.2	~~JB~~ UJ
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U I
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J3

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 40 Decanted: (Y/N) N Date Received: 04/14/00

Extraction: (Type) SONC Date Extracted: 04/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC (Lindane)	2.8	U
76-44-8	Heptachlor	2.8	U
309-00-2	Aldrin	2.8	U
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	5.5	U
72-55-9	4,4'-DDE	1.6	J
72-20-8	Endrin	5.5	U
33213-65-9	Endosulfan II	5.5	U
72-54-8	4,4'-DDD	5.5	U
1031-07-8	Endosulfan sulfate	5.5	U
50-29-3	4,4'-DDT	5.5	U
72-43-5	Methoxychlor	33	UJ
53494-70-5	Endrin ketone	5.5	U
7421-93-4	Endrin aldehyde	5.5	UJ
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280	U
12674-11-2	Aroclor-1016	55	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	55	U
53469-21-9	Aroclor-1242	55	U
12672-29-6	Aroclor-1248	55	U
11097-69-1	Aroclor-1254	55	U
11096-82-5	Aroclor-1260	55	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J4

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 57 Decanted: (Y/N) N Date Received: 04/14/00

Extraction: (Type) SONC Date Extracted: 04/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.0	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	~~1.2~~ 4.0	~~PU~~ R
309-00-2	Aldrin	4.0	U
1024-57-3	Heptachlor epoxide	4.0	U
959-98-8	Endosulfan I	4.0	U
60-57-1	Dieldrin	7.7	U
72-55-9	4,4'-DDE	7.7	U
72-20-8	Endrin	7.7	U
33213-65-9	Endosulfan II	7.7	U
72-54-8	4,4'-DDD	7.7	U
1031-07-8	Endosulfan sulfate	7.7	U
50-29-3	4,4'-DDT	7.7	U
72-43-5	Methoxychlor	40	U J
53494-70-5	Endrin ketone	7.7	U
7421-93-4	Endrin aldehyde	7.7	U J
5103-71-9	alpha-Chlordane	4.0	U
5103-74-2	gamma-Chlordane	4.0	U
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	77	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	77	U
53469-21-9	Aroclor-1242	77	U
12672-29-6	Aroclor-1248	77	U
11097-69-1	Aroclor-1254	77	U
11096-82-5	Aroclor-1260	77	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01J5

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) SOIL Lab Sample ID: 41819.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 43 Decanted: (Y/N) N Date Received: 04/14/00

Extraction: (Type) SONC Date Extracted: 04/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.0	U
319-85-7	beta-BHC	3.0	U
319-86-8	delta-BHC	3.0	U
58-89-9	gamma-BHC (Lindane)	3.0	U
76-44-8	Heptachlor	~~2.0~~ 3.0	~~PU~~ UJ
309-00-2	Aldrin	3.0	U
1024-57-3	Heptachlor epoxide	3.0	U
959-98-8	Endosulfan I	3.0	U
60-57-1	Dieldrin	5.8	U
72-55-9	4,4'-DDE	5.8	U
72-20-8	Endrin	5.8	U
33213-65-9	Endosulfan II	5.8	U
72-54-8	4,4'-DDD	5.8	U
1031-07-8	Endosulfan sulfate	5.8	U
50-29-3	4,4'-DDT	5.8	U
72-43-5	Methoxychlor	~~1.9~~ 3.0	~~PUD~~ R
53494-70-5	Endrin ketone	5.8	U
7421-93-4	Endrin aldehyde	5.8	UJ
5103-71-9	alpha-Chlordane	3.0	U
5103-74-2	gamma-Chlordane	3.0	U
8001-35-2	Toxaphene	300	U
12674-11-2	Aroclor-1016	58	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	58	U
53469-21-9	Aroclor-1242	58	U
12672-29-6	Aroclor-1248	58	U
11097-69-1	Aroclor-1254	58	U
11096-82-5	Aroclor-1260	58	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023C

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.11

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 04/14/00

Extraction: (Type) CONT Date Extracted: 04/16/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023F

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.14

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 04/14/00

Extraction: (Type) CONT Date Extracted: 04/16/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023G

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.15

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 04/14/00

Extraction: (Type) CONT Date Extracted: 04/16/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023H

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.16

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 04/14/00

Extraction: (Type) CONT Date Extracted: 04/16/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023K

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.17

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 04/14/00

Extraction: (Type) CONT Date Extracted: 04/16/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023N

Lab Name: AATSLA | Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.18

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 04/14/00

Extraction: (Type) CONT Date Extracted: 04/16/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023P

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.19

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 04/14/00

Extraction: (Type) CONT Date Extracted: 04/16/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B023T
RINSE BLANK

Lab Name: AATSLA Contract: 68-W0-0078

Lab Code: AATSLA Case No.: 27965 SAS No.: SDG No.: B01HY

Matrix: (soil/water) WATER Lab Sample ID: 41819.20

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 04/14/00

Extraction: (Type) CONT Date Extracted: 04/16/00

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/19/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

In Reference to Case/SDG No(s).:
27964/B01HY

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: _04/14/00_____

Laboratory Name: AATSLA - American Analytical and Technical Services
Lab Contact: John Troost

Region: ___II_____
Contact: __Nicole Coene(CLASS)___

Call Initiated by: _X__ Laboratory ___ Region

In reference to data for the following sample number(s):

B023F

Summary of Questions/Issues Discussed:

- 1 of 2 VOA vials received for sample B023F was broken in shipment

Summary of Resolution:

Will note in narrative, proceeding with analysis using the remaining vial.

Signature: JR Troost

Date: 04/14/00

REFERENCE NO. 25

ATTACHMENT B

RECORD OF COMMUNICATION

TO: Smita Sumbaly

FROM: *JANET TROTTER*
Region II ESAT/RSCC

DATE: May - 26, 2000

SUBJECT: QUALITY ASSURED DATA

MESSAGE

PLEASE SIGN BELOW IN ACKNOWLEDGEMENT OF RECEIPT OF THE FOLLOWING AND RETURN ONE COPY OF THIS RECORD OF COMMUNICATION TO THE RSCC-REGION II.

(1) Diamond Aerosol 27965 Liberty Inorg 85/8W
(2) Diamond Aerosol 27965 AATSLA Org 85/9W

REPLY BY: _____

SIGNATURE: _____ DATE: _____

DATE RECEIVED BY RSCC: ____/____/____

cc: EPA TASK MONITOR
ESAT, MANAGER
file

RECORD OF COMMUNICATION

TO: Smita Sumbaly

FROM: *JANET TROTTER*
Region II ESAT/RSCC

DATE: MAY - 26, 2000

SUBJECT: QUALITY ASSURED DATA

MESSAGE

PLEASE SIGN BELOW IN ACKNOWLEDGEMENT OF RECEIPT OF THE FOLLOWING AND RETURN ONE COPY OF THIS RECORD OF COMMUNICATION TO THE RSCC-REGION II.

(1) Diamond Aerosol 27965 Liberty Inorg 85/8W
(2) Diamond Aerosol 27965 AATSLA Org 85/9W

REPLY BY: _____

SIGNATURE: _____ DATE: _____

DATE RECEIVED BY RSCC: ____/____/____

cc: EPA TASK MONITOR
ESAT, MANAGER
file

RECORD OF COMMUNICATION

REGIONAL SAMPLE CONTROL CENTER

DATE: MAY 5, 2000
SUBJECT: CLP Data Package for Quality Assurance Review
FROM: RSCC / ESAT
TO: Hanif Sheikh, Hazardous Waste Support Section

MAY 24 2000

Attached is the following INORGANIC Data Package to be reviewed for Quality Assurance

SITE	DIAMOND AEROSOL	CASE#	27965
CONTRACTOR	STARTW	#SAMPLES	MATRIX
PHASE	SIP	8	SOIL
LAB	LIBRTY	8	WATER
TURN-AROUND-TIME	21 DAYS	FRACTION	TAL ONLY
CERCLIS ID #	NJD049644438	SITE SPILL #	ZZ

REGION II RSCC DATA TRANSFER LOG

Relinquished By		Received By	
Signature	Date/Time	Signature	Date/Time
		John Bulich	5-1-00
John Bulich	5-5-00	CS	5/12/00
CS	5/17/00	J. Trutter	5/17/00
J. Trutter	5/19/00	Hanif Sheikh	5/19/00
Hanif Sheikh	5/24/00	J Bulich DCR	5/24/00

(over for instructions) revised 3/99

CASE: 27965	SITE: DIAMOND AEROSOL	SOIL: 8
SDG: MB00B6, MB00AX	LAB: LIBERTY	WATER: 8
CONTRACTOR: STARTW	REVIEWER: C. STANCA	OTHER:

A.2.1. Validation flags -The following flags have been applied in red by the data validator and must be considered by the data user.

J -This flag indicates the result qualified as **estimated.**

Red-Line - A red-line drawn through a sample result indicates **unusable** value. The red-lined data are known to contain significant errors based on documented information and must not be used by the data user.

Fully Usable Data -The results that do not carry "J" or "red-line" are fully usable.

Contractual Qualifiers -The legend of contractual qualifiers applied by the lab on Form I's is found on page B-20 of SOW ILM01.0

A.2.2. The data assessment is given below and on the attached sheets.

This case consists of eight (8) aqueous and eight (8) soil samples collected at the Diamond Aerosol site on 4/13/00 for TAL Metals analysis according to the USEPA CLP SOW No. ILM04.0. The following sample was identified as field blank: MB007S. Matrix spike, laboratory duplicate and serial dilution analyses were performed on samples MB00B6 and MB00AX. The Trip Report was not present.

SDG MB00B6 (AQUEOUS)

CRDL STANDARD

The CRDL standard recovery fell outside the control limits of 80 - 120% for Hg (%R = 140.0). All associated positive Hg results within the affected range of True Value ± CRDL should be considered estimated and flagged "J". No action was taken as all associated results were undetect.

A.2.2. (continuation)

ICP SERIAL DILUTION

The ICP serial dilution analysis yielded percent differences greater than 10 but less than 100 when the initial concentration was equal to or greater than 10 X IDL for Fe (%D =11.3), K (%D =18.7), Na (%D = 12.9) and Zn (%D = 17.0). All associated sample results greater or equal to CRDL or 10 X IDL, whichever is greater, should be considered estimated and flagged "J". The following action has been taken:

"J": Fe in MB007L, -7N, -7P, -7Q, MB00B6, -B7
Na in MB00B6
Zn in MB007P, -7Q

SDG MB00AX (SOIL)

CRDL STANDARD

The CRDL standard recoveries fell outside the control limits of 80 - 120% for Pb ($\%R_4$ = 77.4). (Only out of control recoveries that affected samples in this SDG were mentioned.) All associated Pb results within the affected range of True Value $\pm$ 2CRDL should be considered estimated and flagged "J". The following action has been taken:

"J": Pb in MB00AX

MATRIX SPIKE

The matrix spike recovery was outside the control limits of 75 - 125% when sample concentration was less than 4 X spike concentration for Mn (%R = 136.5). If the spike recovery is high the results in the associated samples are biased high and the true values may be lower than the values reported. All associated positive results should be considered estimated and flagged "J". The following action has been taken:

"J": Mn in MB00AX, -AY, -AZ, MB00B0, -B1, -B2, -B3, -B4.

LABORATORY DUPLICATE

The absolute difference between sample and duplicate results was greater than 2CRDL for Pb when sample and/or duplicate results were less than 5 X CRDL. All associated sample results not previously qualified should be considered estimated and flagged "J". The following action has been taken:

A.2.2. (continuation)

"J": Pb in MB00AY, -AZ, MB00B0, -B1, -B2, -B3, -B4.

ICP SERIAL DILUTION

The ICP serial dilution analysis yielded percent differences greater than 10 but less than 100 when the initial concentration was equal to or greater than 10 X IDL for Ca (%D =16.9), Co (%D =22.2), and Cu (%D = 21.7). All associated sample results greater or equal to CRDL or 10 X IDL, whichever is greater, should be considered estimated and flagged "J". The following action has been taken:

"J": Ca in MB00B0, -B1, -B3, -B4
Co in MB00B1, -B3
Cu in MB00AZ, MB00B0, -B1, -B2, -B3, -B4

PERCENT SOLIDS

The percent solids was less than 50 but greater than 10 for samples MB00B3 (33.0%) and MB00B4 (45.2%). All sample results not previously qualified have been considered estimated and flagged "J".

"J": All analytes (except Ca, Co, Cu, Pb, Mn) in MB00B3
All analytes (except Ca, Cu, Pb, Mn) in MB00B4

A.2.3. Contract-Problems/Non-Compliance

None.

MMB Reviewer: HS Date: 5/24/00
Signature

Contractor Reviewer: Contractor Stamp Date: 5/17/00
Signature

Verified by: Date:
Signature

CONTRACT NON-COMPLIANCE
(SC REPORT)

Regional Review of Uncontrolled Hazardous Waste
Site Contract Laboratory Data Package

CSF No. 27965

The Participant (Laboratory name) _____
Inorganic data package received at Region II has been reviewed and the quality assurance and performance data summarized. The data reviewed included:
SDG Sample No.: _____

No. & Matrix: _____

Contract No. (_____) requires that specific analytical work be done and that associated reports be provided by the contractor to the Region, DSC-IV, and SC. The general criteria used to determine the performance were based on an evaluation of:

- Data Completeness
- Matrix Spike Results
- Calibration Standards Results
- Duplicate Analysis Results
- Blank Analysis Results
- MSA Results

Areas of non-compliance with the above contract are described below.

Comments: _____

CS
Reviewer's Initial

5/17/00
Date

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.4: Mailing List for Data Reviewers

Date: Jan. 199
Number: HW-
Revision: 1

DPO MAILING LIST FOR DATA REVIEWERS

1. USEPA Region I (ESD)
60 Westview Street
Lexington, MA 02173
Deb Szaro
(617) 861-4312
CT, ME, MA, NH, RI, VT
CAA, Resource Analysis, York
ESI, Skinner, TMA

2. USEPA Region II ESD
Woodbridge Avenue
Edison, NJ 08837
Lisa Garton Vidulich
(201) 321-6676
NJ, NY, PR, VI
Century, Chemtech, US Test, Nasco
ETC, Gadson, EMS, Gadson, ICM

3. USEPA Region III (CRL)
839 Bestgate Road
Annapolis, MD 21401
Curt Sands
(301) 266-9130
DE, MD, PA, VA, WV, DC
Cistec, Hitman, JTC, MACS, VERSAR
ITAS, Weston, MMES, EA Engineering
Subject Tech, KEYPA

4. USEPA Region IV (ESD)
Analytical Support Branch
College Station Road
Athens, GA 30613
Tom Bessent, Jr.
(404) 546-3112
AL, FL, GA, KY, MS, NC, SC, TN
CompuChem, EPS, ESE, PBSAI,
Triangle Labs

5. USEPA Region V (ESD)
536 South Clark Street
Tenth Floor, CRL
Chicago, IL 60605
Pat Cunilla
(312) 353-9087
IL, IN, MI, MN, OH, WI
NLE, TAI/ENG

6. USEPA Region VI (ESD)
Monitoring Part Plaza, Bldg. C
6626 Harwood Drive
Houston, TX 77074
David Stockton
(713) 953-3425
AR, LA, NM, TX, OK
ANACON, RADIAN, SPECS, ES, Glooms
Research, Inc., SPL Inc., SWRL
Allied, KEYTX, ERA

7. USEPA Region VII Laboratory
25 Funston Road
Kansas City, KS 66115
Debra Morey
(913) 236-3881
IO, KS, NB, MO
Wilson, Kansas City Scientific
Enterprises, Eagle Picher

8. USEPA Region VIII Laboratory
Box 25366
Denver Federal Center
Lakewood, CO 80225
Eve Hoffman
(303) 236-5771
CO, ND, SD, UT, WY, MT
ACCU, CMRL, RMAL, Data Chem, Chard

9. USEPA Region IX (ESD)
QA Management Section
215 Fremont Street
San Francisco, CA 94105
Kent Kirkingman
(415) 974-0934
AZ, CA, HI, NV, American Samoa,
Guam Trust Territories of Pacific
Islands, Wake Island
ALL, CAL, Weston, S-Cubed, IT_CA,
Vegas

10. USEPA Region X Laboratory
P.O. Box 549
Manchester, WA 98353
Gerald Mach
(206) 442-0370
AK, ID, OR, WA
Lauchli Testing Labs, Century Testing
Labs (For VOA Only), Weyerhauser Co.,
Columbia Testing, Silver Valley

11. Carla Dempsey - (OS-220)
USEPA
401 "M" Street S.W.
Washington, DC 20460
FTS 382-5746

12. Edward Kantor
USEPA
EMSL-LV
944 E. Harmon Avenue
Box 93478
Las Vegas, NV 89119

13. Sample Management Office

CLP DATA ASSESSMENT SUMMARY FORM

TYPE OF REVIEW: INORGANIC **DATE:** 05/17/00 **CASE #:** 27965

SITE: DIAMOND AEROSOL **LAB NAME:** LIBERTY

REVIEWER'S INITIALS: CS **NUMBER OF SAMPLES:** 8 WATER
8 SOIL

ANALYTES REJECTED DUE TO EXCEEDING REVIEW CRITERIA:*

	Holding Time	CRDL	Prep Blank	Field Blank	Inter-ference	Spike Recov.	Det. Limit	LCS	Serial Dil	MSA	Total Analytes	Rejections
ICP											352	0
Flame AA												
Furnace AA												
Mercury											16	0
Cyanide												
Total											368	0

ANALYTES FLAGGED AS ESTIMATED (J) DUE TO EXCEEDING CRITERIA FOR:*

	Holding Time	CRDL	Prep Blan	% Solids	Preser vation	Spike Recov.	Dup Lab	Dup Field	Det. Limit	LCS	Serial Diluti on	MSA	Total Analytes	Esti mati on
ICP		1		35		8	7				21		352	72
Flame AA														
Furnace AA														
Mercury				2									16	2
Cyanide														
Total		1		37		8	7				21		368	74

Note: Asterisk (*) indicates additional exceedances of review criteria.

Region II

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.: 27965

SITE: DIAMOND AEROSOL

LABORATORY: LIBERTY

NO. OF SAMPLES/MATRIX: 8 WATER, 8 SOIL

SDG#: MB00B6, MB00AX

REVIEWER (IF NOT ESD):

SOW#: ILM04.0

REVIEWER'S NAME: C. STANCA

DPO: ACTION FYI

COMPLETION DATE: 05/16/00

DATA ASSESSMENT SUMMARY

	ICP	AA	MERCURY	CYANIDE
Holding Times	O		O	
Calibration	O		O	
Blanks	O		O	
ICS	O		N/A	N/A
LCS	O		N/A	N/A
Duplicate Analysis	O		O	
Matrix Spike	O		O	
MSA	N/A		N/A	N/A
Serial Dilution	O		N/A	N/A
Sample Verification	O		O	
Other QC	O		O	
Overall Assessment	O		O	

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
= Problems, but do not affect data.
TION ITEMS:
EAS OF CONCERN:
NOTABLE PERFORMANCE:

Analytical Results (Qualified Data)

Page ____ of ____

Case #: 27965
SDG : MB00B6
Site : DIAMOND AEROSOL CORPORATION
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 8

Sample Number :	MB00B6		MB00B6A-Do Not Use		MB00B6D-Do Not Use		MB00B6S-Do Not Use		MB00B7	
Sampling Location :	6519-SW01		6519-SW01		6519-SW01		6519-SW01		6519-SW02	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	04/13/2000		04/13/2000		04/13/2000		04/13/2000		04/13/2000	
Time Sampled :	10:45		10:45		10:45		10:45		11:10	
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	78.6	B	72.2	B	65.6	B	2080		74.2	B
ANTIMONY	2.1	U	130		2.6	B	525		2.1	U
ARSENIC	2.3	U	20.9		2.3	U	39.7		2.3	U
BARIUM	20.3	B	996		19.5	B	2140		19.7	B
BERYLLIUM	0.21	B	10.9		0.20	U	51.7		0.20	U
CADMIUM	0.20	U	11.0		0.29	B	52.0		0.20	U
CALCIUM	8190		8170		8370				8350	
CHROMIUM	0.77	B	22.4		0.77	B	208		0.71	B
COBALT	0.50	U	108		0.50	U	521		0.50	U
COPPER	0.87	B	54.8		1.0	B	258		0.60	U
IRON	164	J	162		170		1220		206	J
LEAD	1.3	U	6.4		1.3	U	19.4		1.3	U
MAGNESIUM	3390	B	3400	B	3480	B			3460	B
MANGANESE	10.4	B	43.5		10.8	B	535		12.8	B
MERCURY	0.10	U			0.10	U	0.97		0.10	U
NICKEL	0.70	U	87.5		0.70	U	518		0.78	B
POTASSIUM	677	B	680	B	699	B			694	B
SELENIUM	2.2	U	11.8		2.2	U	8.7		2.2	U
SILVER	0.60	B	20.5		0.60	U	42.9		0.60	U
SODIUM	7980	J	8030		8270				8130	
THALLIUM	3.2	U	21.3		3.2	U	51.4		3.2	U
VANADIUM	0.80	B	111		0.40	B	518		0.40	U
ZINC	9.7	B	54.0		25.0		539		3.8	B
CYANIDE	N/A		N/A		N/A		N/A		N/A	

Analytical Results (Qualified Data)

Case #: 27965 SDG : MB00B6
Site : DIAMOND AEROSOL CORPORATION
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	MB00B8		MB007L		MB007N		MB007P		MB007Q	
Sampling Location :	6519-SW03		6519-SW04		6519-SW06		6519-SW07		6519-SW08	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	04/13/2000		04/13/2000		04/13/2000		04/13/2000		04/13/2000	
Time Sampled :	12:30		12:00		15:00		15:30		15:30	
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	83.0	B	173	B	2340		327		246	
ANTIMONY	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
ARSENIC	2.3	U	2.3	U	2.3	U	2.3	U	2.3	U
BARIUM	9.7	B	18.5	B	30.8	B	19.9	B	20.0	B
BERYLLIUM	0.20	U	0.20	U	0.31	B	0.20	U	0.21	B
CADMIUM	0.23	B	0.25	B	0.20	U	0.28	B	0.38	B
CALCIUM	4750	B	10400		5920		11900		11600	
CHROMIUM	0.69	B	0.83	B	4.9	B	1.3	B	1.1	B
COBALT	0.50	U	0.50	U	1.1	B	1.4	B	1.4	B
COPPER	0.83	B	0.60	U	2.6	B	1.9	B	0.80	B
IRON	42.0	B	186	J	2340	J	1720	J	1220	J
LEAD	1.3	U	1.3	U	6.1		1.3	U	1.3	U
MAGNESIUM	2560	B	5430		3010	B	6160		6010	
MANGANESE	1.9	B	7.0	B	75.6		128		160	
MERCURY	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
NICKEL	0.70	U	0.70	U	2.1	B	1.2	B	1.2	B
POTASSIUM	276	B	627	B	677	B	691	B	640	B
SELENIUM	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
SILVER	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U
SODIUM	2830	B	4700	B	2790	B	4390	B	4260	B
THALLIUM	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
VANADIUM	0.40	B	1.1	B	6.0	B	1.8	B	1.1	B
ZINC	0.80	U	0.80	U	15.4	B	28.6	J	28.9	J
CYANIDE	N/A		N/A		N/A		N/A		N/A	

Analytical Results (Qualified Data)

Case #: 27965 SDG : MB00B6
Site : DIAMOND AEROSOL CORPORATION
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	MB007S-Field Blank		IDL							
Sampling Location :	6519-RB01									
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	04/13/2000									
Time Sampled :	10:20									
%Solids :	0.0									
Dilution Factor :	1.0									
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	37.0	U	37.0							
ANTIMONY	2.1	U	2.1							
ARSENIC	2.3	U	2.3							
BARIUM	0.24	B	0.10							
BERYLLIUM	0.20	U	0.20							
CADMIUM	0.20	U	0.20							
CALCIUM	10.9	U	10.9							
CHROMIUM	0.61	B	0.40							
COBALT	0.50	U	0.50							
COPPER	0.60	U	0.60							
IRON	14.3	U	14.3							
LEAD	1.3	U	1.3							
MAGNESIUM	6.3	U	6.3							
MANGANESE	0.20	U	0.20							
MERCURY	0.10	U	0.10							
NICKEL	0.70	U	0.70							
POTASSIUM	26.5	U	26.5							
SELENIUM	2.2	U	2.2							
SILVER	0.60	U	0.60							
SODIUM	300	U	300							
THALLIUM	3.2	U	3.2							
VANADIUM	0.40	U	0.40							
ZINC	1.3	B	0.80							
CYANIDE	N/A		N/A							

Case #: 27965
Site :
Lab. :
Reviewer :
Date :

SDG : MB00AX
DIAMOND AEROSOL CORPORATION
LIBRTY

Analytical Results (Qualified Data)

Page ____ of ____

Number of Soil Samples : 8
Number of Water Samples : 0

Sample Number :	MB00AX		MB00AXDDo Not use		MB00AXS-Do Not Use		MB00AY		MB00AZ	
Sampling Location :	6519-SED1		6519-SED1		6519-SED1		6519-SED2		6519-SED3	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	04/13/2000		04/13/2000		04/13/2000		04/13/2000		04/13/2000	
Time Sampled :	11:00		11:00		11:00		11:20		12:40	
%Solids :	78.6		78.6		78.6		85.3		60.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	2300		2370				2810		5530	
ANTIMONY	0.53	U	0.53	U	110		0.47	U	0.69	U
ARSENIC	0.59	U	0.68	B	10.2		0.52	U	1.2	B
BARIUM	19.4	B	21.2	B	553		20.6	B	27.4	B
BERYLLIUM	0.40	B	0.41	B	12.8		0.34	B	0.50	B
CADMIUM	0.050	U	0.050	U	12.2		0.050	U	0.070	U
CALCIUM	420	B					575	B	868	B
CHROMIUM	13.5						9.1		18.4	
COBALT	2.7	B	4.3	B	129		2.6	B	2.9	B
COPPER	3.7	B	7.0		69.5		3.5	B	8.4	J
IRON	7710		7260				10500		9630	
LEAD	2.9	J					4.5	J	19.3	J
MAGNESIUM	509	B	570	B			532	B	939	B
MANGANESE	242	BJ					142	J	88.0	J
MERCURY	0.060	U	0.060	U	0.58		0.060	U	0.070	U
NICKEL	3.8	B	3.9	B	129		2.8	B	5.2	B
POTASSIUM	152	B	151	B			177	B	234	B
SELENIUM	0.56	U	0.56	U	2.0		0.50	U	0.72	U
SILVER	0.15	U	0.15	U	10.5		0.14	U	0.20	U
SODIUM	203	B	186	B			241	B	304	B
THALLIUM	1.3	B	1.3	B	14.2		1.7	B	1.0	U
VANADIUM	13.6		12.4	B	143		15.8		20.9	
ZINC	27.9		30.6		158		22.0		26.1	
CYANIDE	N/A		N/A		N/A		N/A		N/A	

Analytical Results (Qualified Data)

Case #: 27965
Site :
Lab. :
Reviewer :
Date :

SDG : MB00AX
DIAMOND AEROSOL CORPORATION
LIBRTY

Page ____ of ____

Number of Soil Samples : 8
Number of Water Samples : 0

Sample Number :	MB00AX		MB00AXDDo Not use		MB00AXS-Do Not Use		MB00AY		MB00AZ	
Sampling Location :	6519-SED1		6519-SED1		6519-SED1		6519-SED2		6519-SED3	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	04/13/2000		04/13/2000		04/13/2000		04/13/2000		04/13/2000	
Time Sampled :	11:00		11:00		11:00		11:20		12:40	
%Solids :	78.6		78.6		78.6		85.3		60.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	2300		2370				2810		5530	
ANTIMONY	0.53	U	0.53	U	110		0.47	U	0.69	U
ARSENIC	0.59	U	0.68	B	10.2		0.52	U	1.2	B
BARIUM	19.4	B	21.2	B	553		20.6	B	27.4	B
BERYLLIUM	0.40	B	0.41	B	12.8		0.34	B	0.50	B
CADMIUM	0.050	U	0.050	U	12.2		0.050	U	0.070	U
CALCIUM	420	B					575	B	868	B
CHROMIUM	13.5						9.1		18.4	
COBALT	2.7	B	4.3	B	129		2.6	B	2.9	B
COPPER	3.7	B	7.0		69.5		3.5	B	8.4	J
IRON	7710		7260				10500		9630	
LEAD	2.9	J				R	4.5	J	19.3	J
MAGNESIUM	509	B	570	B			532	B	939	B
MANGANESE	242	BJ					142	J	88.0	J
MERCURY	0.060	U	0.060	U	0.58		0.060	U	0.070	U
NICKEL	3.8	B	3.9	B	129		2.8	B	5.2	B
POTASSIUM	152	B	151	B			177	B	234	B
SELENIUM	0.56	U	0.56	U	2.0		0.50	U	0.72	U
SILVER	0.15	U	0.15	U	10.5		0.14	U	0.20	U
SODIUM	203	B	186	B			241	B	304	B
THALLIUM	1.3	B	1.3	B	14.2		1.7	B	1.0	U
VANADIUM	13.6		12.4	B	143		15.8		20.9	
ZINC	27.9		30.6		158		22.0		26.1	
CYANIDE	N/A		N/A		N/A		N/A		N/A	

Case #: 27965
Site :
Lab. :
Reviewer :
Date :

SDG : MB00AX
DIAMOND AEROSOL CORPORATION
LIBRTY

Analytical Results (Qualified Data)

Sample Number :	MB00B0		MB00B1		MB00B2		MB00B3		MB00B4	
Sampling Location :	6519-SED4		6519-SED5		6519-SED6		6519-SED7		6519-SED8	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	04/13/2000		04/13/2000		04/13/2000		04/13/2000		04/13/2000	
Time Sampled :	13:10		13:30		15:15		15:50		15:50	
%Solids :	52.3		78.0		79.7		33.0		45.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	16500		23400		21200		11300	J	12500	J
ANTIMONY	0.74	U	0.62	B	0.84	U	1.2	UJ	0.86	UJ
ARSENIC	3.4	B	2.3	B	3.6	B	5.6	BJ	2.6	BJ
BARIUM	135		111		92.8		178	J	88.6	J
BERYLLIUM	1.1	B	1.4		1.2	B	0.93	BJ	0.84	BJ
CADMIUM	0.39	B	0.070	B	0.080	U	2.2	BJ	0.71	BJ
CALCIUM	2200	J	2100	J	1670	B	4590	J	2330	J
CHROMIUM	45.0		63.4		40.0		22.9	J	30.2	J
COBALT	16.8	B	15.9	J	8.1	B	43.1	J	12.9	BJ
COPPER	17.3	J	30.3	J	14.2	J	24.9	J	17.8	J
IRON	33600		41000		22400		65000	J	23400	J
LEAD	28.6	J	33.2	J	46.4	J	20.7	J	21.1	J
MAGNESIUM	2140		4380		2290		2380	BJ	2190	J
MANGANESE	781	J	564	J	272	J	4740	J	957	J
MERCURY	0.17	B	0.12	B	0.070	B	0.13	BJ	0.13	BJ
NICKEL	14.1		22.0		18.9		19.9	BJ	12.8	BJ
POTASSIUM	624	B	1910		572	B	687	BJ	695	BJ
SELENIUM	1.6	B	0.74	B	0.88	U	2.2	BJ	0.90	UJ
SILVER	0.21	U	0.14	U	0.24	U	0.35	UJ	0.25	UJ
SODIUM	328	B	395	B	333	B	427	BJ	376	BJ
THALLIUM	6.0		6.2		3.4	B	12.0	J	4.4	J
VANADIUM	68.1		71.3		50.5		39.5	J	41.8	J
ZINC	108		233		67.7		384	J	167	J
CYANIDE	N/A		N/A		N/A		N/A		N/A	

Analytical Results (Qualified Data)

Case #: 27965
Site :
Lab. :
Reviewer :
Date :

SDG : MB00AX
DIAMOND AEROSOL CORPORATION
LIBRTY

Sample Number :	IDL(ug/L)									
Sampling Location :										
Matrix :	Soil									
Units :	mg/Kg									
Date Sampled :										
Time Sampled :										
%Solids :										
Dilution Factor :										
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	37.0									
ANTIMONY	2.1									
ARSENIC	2.3									
BARIUM	0.10									
BERYLLIUM	0.20									
CADMIUM	0.20									
CALCIUM	10.9									
CHROMIUM	0.40									
COBALT	0.50									
COPPER	0.60									
IRON	14.3									
LEAD	1.3									
MAGNESIUM	6.3									
MANGANESE	0.20									
MERCURY	0.10									
NICKEL	0.70									
POTASSIUM	26.5									
SELENIUM	2.2									
SILVER	0.60									
SODIUM	300									
THALLIUM	3.2									
VANADIUM	0.40									
ZINC	0.80									
CYANIDE	N/A									

Analytical Results (Qualified Data)

Case #: 27965 SDG : MB00AX

Site : DIAMOND AEROSOL CORPORATION

Lab. :

Reviewer :

Date :

Sample Number :	MB00AXA-Do Not Use		IDL							
Sampling Location :	6519-SED1									
Matrix :	Water		Water							
Units :	mg/Kg		mg/Kg							
Date Sampled :	04/13/2000									
Time Sampled :	11:00									
%Solids :	0.0									
Dilution Factor :	1.0									
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM			37.0							
ANTIMONY			2.1							
ARSENIC			2.3							
BARIUM			0.10							
BERYLLIUM			0.20							
CADMIUM			0.20							
CALCIUM			10.9							
CHROMIUM			0.40							
COBALT			0.50							
COPPER			0.60							
IRON			14.3							
LEAD			1.3							
MAGNESIUM			6.3							
MANGANESE	2940		0.20							
MERCURY			0.10							
NICKEL			0.70							
POTASSIUM			26.5							
SELENIUM			2.2							
SILVER			0.60							
SODIUM			300							
THALLIUM			3.2							
VANADIUM			0.40							
ZINC			0.80							
CYANIDE	N/A		N/A							

CADRE VALIDATION

Holding Time Report

SDG NO: **MB00B6**
CASE NO: **27965**

LABORATORY: **COMPUCHEM**
AGENCY INPUT FILE: **MB00B6.ASF**

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	16704	2.0	2.6
Mercury	28	0	2.0	50.0
Cyanide	14	0	12.0	1.0

No problems found for this qualification.

Calibration Report

SDG NO: **MB00B6**
CASE NO: **27965**

LABORATORY: **COMPUCHEM**
AGENCY INPUT FILE: **MB00B6.ASF**

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems found for this qualification.

Matrix Spike Report

SDG NO: **MB00B6**
CASE NO: **27965**

LABORATORY: **COMPUCHEM**
AGENCY INPUT FILE: **MB00B6.ASF**

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

No problems found for this qualification.

LCS Report

SDG NO: MB00B6

CASE NO: 27965

LABORATORY: COMPUCHEM

AGENCY INPUT FILE: MB00B6.ASF

No problems found for this qualification.

Sample Result Verification Report

SDG NO: **MB00B6**

CASE NO: **27965**

LABORATORY: **COMPUCHEM**

AGENCY INPUT FILE: **MB00B6.ASF**

No problems found for this qualification.

Field QC Report

SDG NO: **MB00B6**

CASE NO: **27965**

LABORATORY: **COMPUCHEM**

AGENCY INPUT FILE: **MB00B6.ASF**

No problems found for this qualification.

Percent Moisture Report

SDG NO: **MB00AX**
CASE NO: **27965**

LABORATORY: **COMPUCHEM**
AGENCY INPUT FILE: **MB00AX.ASF**

PERCENT MOISTURE LIMITS

	Primary	Expanded
INORG	50%	90%

DC-364: Percent moisture content of the following inorganic soil samples exceeds primary criteria.
Hits and non-detects are qualified "J".

MB00B3, MB00B4

Holding Time Report

SDG NO: **MB00AX**
CASE NO: **27965**

LABORATORY: **COMPUCHEM**
AGENCY INPUT FILE: **MB00AX.ASF**

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	16704	2.0	2.6
Mercury	28	0	2.0	50.0
Cyanide	14	0	12.0	1.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

MB00AX, MB00AXD, MB00AXS, MB00AY, MB00AZ, MB00B0
MB00B1, MB00B2, MB00B3, MB00B4

Calibration Report

SDG NO: **MB00AX**
CASE NO: **27965**

LABORATORY: **COMPUCHEM**
AGENCY INPUT FILE: **MB00AX.ASF**

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems found for this qualification.

LCS Report

SDG NO: **MB00AX**
CASE NO: **27965**

LABORATORY: **COMPUCHEM**
AGENCY INPUT FILE: **MB00AX.ASF**

DC-259: The following inorganic samples are associated with laboratory control samples (LCS) which were not run in the required analytical frequency.
Hits are flagged "J" and non-detects are qualified "UJ".

Manganese
MB00AXA

Duplicates Report

SDG NO: **MB00AX**

CASE NO: **27965**

LABORATORY: **COMPUCHEM**

AGENCY INPUT FILE: **MB00AX.ASF**

DC-421: The following inorganic samples are associated with duplicate results which did not meet absolute difference (AD) expanded criteria.

Hits are qualified "R" and non-detects are not flagged.

Lead

MB00AX, MB00AXS, MB00AY, MB00AZ, MB00B0, MB00B1
MB00B2, MB00B3, MB00B4

Sample Result Verification Report

SDG NO: **MB00AX** LABORATORY: **COMPUCHEM**

CASE NO: **27965** AGENCY INPUT FILE: **MB00AX.ASF**

No problems found for this qualification.

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DIAMOND AEROSOL

CASE # 27965
SDG # MB00B6
MB00AX

Evaluation of Metals Data for the Contract Laboratory Program (CLP)

based on

SOW. 3/90

(SOP Revision XI)

PREPARED BY: _____ DATE: 1-30-92
Hanif Sheikh, Quality Assurance Chemist
Toxic and Hazardous Waste Section

APPROVED BY: _____ DATE: 1-30-92
Kevin Kubik, Chief
Toxic and Hazardous Waste Section

APPROVED BY: _____ DATE: 1/30/92
Robert Runyon, Chief
Monitoring Management Branch

2.1.5 Data Review Log: It is recommended that each data reviewer should maintain a log of the reviews completed to include: a. date of start of case review

b. date of completion of case review
c. site
d. case number
e. contract laboratory
f. number of samples
g. matrix
h. hours worked
i. reviewer's initials

2.1.6 Telephone Record Log - the data reviewer should enter the bare facts of inquiry, before initiating any phone conversation with CLP laboratory. After the case review has been completed, mail white copy of Telephone Record Log to the laboratory and pink copy to SMO. File yellow copy in the Telephone Record Log folder, and attach a xerox copy of the Telephone Record Log to the completed Data Assessment Narrative (Appendix A.2).

2.1.7 Forwarded Paperwork

2.1.7.1 Upon completion of review, the following are to be forwarded to the Regional Sample Control Center (RSCC) located in the Surveillance and Monitoring Branch:
a. data package
b. completed data assessment checklist (Appendix A.1,original)
c. SMO Contract Compliance Screening (CCS)
d. Record of Communication (copy)
e. CLP Reanalysis Request/Approval Record (original + 3 copies)
f. Appendix A.6 (original).

2.1.7.2 Forward 2 copies of completed Data Assessment Narrative (Appendix A.2) along with 2 copies of the Inorganic Data Assessment Form (Appendix A.6) and Telephone Record Log , if any,: one each for appropriate Regional TPO, and the other one to EPA EMSL office in Las Vegas. The addresses of TPOs and EPA office in Las Vegas are given in Appendix A-4.

2.1.8 Filed Paperwork - Upon completion of review, the following are to be filed within MMB files:
a. Two copies of completed Data Assessment Narrative (Appendix A.2) each carrying Appendix A.6.
b. Telephone Record Log (copy)
c. SMO Report (copy Appendix A-3)
d. CLP Reanalysis Request/Approval Record (copy)

3.0 Data Completeness
Each data package is checked by a Regional Sample Control Coordinator (RSSC) for completeness. A data package is assumed to be complete when all the deliverables required under the contract are present. If a data package is incomplete, the RSSC would call the laboratory for missing document(s). If the laboratory does not respond within a week, SMO and MMB coordinator of Region II will be notified.

4.0 Rejection of Data - All values determined to be unacceptable on the Inorganic Analysis Data Sheet (Form I) must be lined over with a red pencil. As soon as any review criteria causes data to be rejected, that data can be eliminated from any further review or consideration.

5.0 Acceptance Criteria - In order that reviews be consistent among reviewers, acceptance criteria as stated in Appendix A.1 (pages 4-25) should be used. Additional guidance can be found in the National Inorganic Functional Guidelines of October 1, 1989.

6.0 SMO Contract Compliance Screening (CCS) - This is intended to aid reviewer in locating any problems, both corrected and uncorrected. However, the validation should be carried out even if CCS is not present. Resubmittals received from laboratory in response to CCS must be used by the reviewer.

7.0 Request for Reanalysis - Data reviewers must note all items of contract non-compliance within Data Assessment Narrative. If holding times and sample storage times have not been exceeded, TPO may request reanalysis if items of non-compliance are critical to data assessment. Requests are to be made on "CLP Re-Analysis Request/Approval Record".

8.0 Record of Communication - Provided by the Regional Sample Control Center (RSCC) to indicate which data packages have been received and are ready to be reviewed.

9.0 Rounding off numbers - The data reviewer will follow the standard practice.

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.1: Data Assessment - Contract Compliance (Total Review)

Date: Jan. 1992
Number: HW-2
Revision: 11

	YES	NO	N/A
A.1.1 Contract Compliance Screening Report (CCS) - Present?	[✓]	___	___
ACTION: If no, contact RSCC.			
A.1.2 Record of Communication (from RSCC) - Present?	[✓]	___	___
ACTION: If no, request from RSCC.			
A.1.3 Trip Report - Present and complete?	[✓]	___	___
ACTION: If no, contact RSCC for trip report.			
A.1.4 Sample Traffic Report - Present?	[✓]	___	___
Legible?	[✓]	___	___
ACTION: If no, request from Regional Sample Control Center (RSCC).			
A.1.5 Cover Page - Present?	[✓]	___	___
Is cover page properly filled in and signed by the lab manager or the manager's designee?	[✓]	___	___
ACTION: If no, prepare Telephone Record Log, and contact laboratory.			
Do numbers of samples correspond to numbers on Record of Communication?	[✓]	___	___
Do sample numbers on cover page agree with sample numbers on:			
(a) Traffic Report Sheet?	[✓]	___	___
(b) Form I's?	[✓]	___	___
ACTION: If no for any of the above, contact RSCC for clarification.			

		Yes	No	N/A
A.1.6	Form I to IX			
A.1.6.1	Are all the Form I through Form IX labeled with:			
	Laboratory name?	[✓]	___	___
	Case/SAS number?	[✓]	___	___
	EPA sample No.?	[✓]	___	___
	SDG No.?	[✓]	___	___
	Contract No.?	[✓]	___	___
	Correct units?	[✓]	___	___
	Matrix?	[✓]	___	___

ACTION: If no for any of the above, note under Contract Problem/Non-Compliance section of the "Data Assessment Narrative".

A.1.6.2	Do any computation/transcription errors exceed 10% of reported values on Forms I-IX for:			
	(NOTE: Check all forms against raw data.)			
	(a) all analytes analyzed by ICP?	[✓]	___	___
	(b) all analytes analyzed by GFAA?	[✓]	___	___
	(c) all analytes analyzed by AA Flame?	[✓]	___	___
	(d) Mercury?	[✓]	___	___
	(e) Cyanide?	[✓]	___	___

ACTION: If yes, prepare Telephone Log, contact laboratory for corrected data and correct errors with red pencil and initial.

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.1: Data Assessment - Contract Compliance (Total Review)

Date: Jan. 1992
Number: HW-2
Revision: 11

		YES	NO	N/A
A.1.7	Raw Data			
A.1.7.1	Digestion Log* for flame AA/ICP (Form XIII) present?	[✓]		
	Digestion Log for furnace AA Form XIII present?	[ ]		✓
	Distillation Log for mercury Form XIII present?	[✓]		
	Distillation Log for cyanides Form XIII present?	[ ]		✓
	Are pH values (pH<2 for all metals, pH>12 for cyanide) present?	[✓]		
	*Weights, dilutions and volumes used to obtain values.			
	Percent solids calculation present for soils/sediments?	[✓]		
	Are preparation dates present on sample preparation logs/bench sheets?	[✓]		
A.1.7.2	Measurement read out record present? ICP	[✓]		
	Flame AA	[ ]		✓
	Furnace AA	[ ]		✓
	Mercury	[✓]		
	Cyanides	[ ]		✓
A.1.7.3	Are all raw data to support all sample analyses and QC operations present?	[✓]		
	Legible?	[✓]		
	Properly Labeled?	[✓]		

ACTION: If no for any of the above questions in sections A.1.7.1 through A.1.7.3, write Telephone Record Log and contact laboratory for resubmittals.

		YES	NO	N/A
A.1.8	Holding Times - (aqueous and soil samples)			
	(Examine sample traffic reports and digestion/distillation logs.)			
	Mercury analysis (28 days) . . . . . exceeded?	___	[✓]	___
	Cyanide distillation (14 days) . . . . . exceeded?	___	[ ]	✓
	Other Metals analysis (6 months) . . . . exceeded?	___	[✓]	___
	NOTE: Prepare a list of all samples and analytes for which holding times have been exceeded. Specify the number of days from date of collection to the date of preparation (from raw data). Attach to checklist.			
	ACTION: If yes, reject (red-line) values less than Instrument Detection Limit (IDL) and flag as estimated (J) the values above IDL even though sample(s) was preserved properly.			
A.1.8.2	Is pH of aqueous samples for: Metals Analysis >2?	___	[✓]	___
	Cyanides Analysis <12?	___	[ ]	✓
	Action: If yes, flag the associated metals and cyanides data as estimated.			
A.1.9	Form I (Final Data)			
A.1.9.1	Are all Form I's present and complete?	[✓]	___	___
	ACTION: If no, prepare telephone record log and contact laboratory for submittal.			
A.1.9.2	Are correct units (ug/l for waters and mg/kg for soils) indicated on Form I's?	[ ]	___	___
	Are soil sample results for each parameter corrected for percent solids?	[✓]	___	___
	Are all "less than IDL" values properly coded with "U"?	[✓]	___	___

		YES	NO	N/A
	Are the correct concentration qualifiers used with final data?	[✓]		
	ACTION: If no for any of the above, prepare Telephone Record Log, and contact laboratory for corrected data.			
A.1.9.3	Are EPA sample # s and corresponding laboratory sample ID # s the same as on the Cover Page, Form I's and in the raw data?	[✓]		
	Was a brief physical description of samples given on Form I's?	[✓]		
	Was the dilution of any sample diluted beyond the requirements of the contract noted on Form I or Form XIV?		[✓]	
	ACTION: If no for any of the above, note under Contract-Problem/Non-Compliance of the "Data Assessment Narrative".			
A.1.10	Calibration			
A.1.10.1	Is record of at least 2 point calibration present for ICP analysis?	[✓]		
	Is record of 5 point calibration present for Hg analysis?	[✓]		
	Is record of 4 point calibration present for:			
	Flame AA?	[ ]		✓
	Furnace AA?	[ ]		✓
	Cyanides?	[ ]		✓
	Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?	[✓]		

ACTION: If no for any of the above, write in the Contract Problem/Non-Compliance section of the "Data Assessment Narrative".

		YES	NO	N/A
A.1.10.2	Is correlation coefficient less than 0.995 for:			
	Mercury Analysis?	___	[✓]	___
	Cyanide Analysis?	___	[___]	✓
	Atomic Absorption Analysis?	___	[___]	✓

ACTION: If yes, flag the associated data as estimated.

NOTE: The data validator shall calculate the correlation coefficient using concentrations of the standards and the corresponding instrument response (e.g. absorbance, peak area, peak height, etc.).

A.1.10.3	In the instance where less than 4 standards are measured in absorbance (or peak area, peak height, etc.) mode, are the remaining standards analyzed in concentration mode immediately after calibration within ±10% of the true values?	[___]	___	✓

ACTION: If no, flag the associated data as estimated if standards are not within ±10% of true values. Do not flag the data as estimated in linear range indicated by good recovery of standard(s).

A.1.11 Form II A (Initial and Continuing Calibration Verification)-

A.1.11.1	Present and complete for every metal and cyanide?	[✓]	___	___
	Present and complete for AA and ICP when both are used for the same analyte?	[___]	___	✓

ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory.

A.1.11.2	Circle on each Form IIA all percent recoveries that are outside the contract windows. Are all calibration standards (initial and continuing) within control limits:			
	Metals- 90-110%R?	[✓]	___	___
	Hg - 80-120%R?	[✓]	___	___
	Cyanides- 85-115%R?	[___]	___	✓

	YES	NO	N/A
ACTION: Flag as estimated (J) all positive data (not flagged with a "U") analyzed between a calibration standard with %R between 75-89% (65-79% for Hg; 70-84% for CN) or 111-125% (121-135% for Hg; 116-130% for CN) recovery and nearest good calibration standard. Qualify results <IDL as estimated (UJ) if the ICV or CCV %R is 75-89% (CN, 70-84% ; HG, 65-79%). Reject (red-line) as unacceptable data if recovery of the ICV or CCV is outside the range 75-125% (CN, 70-130%; Hg, 65-135%). Qualify five samples on either side of verification standard out of control limits.			
A.1.11.3 Was continuing calibration performed every 10 samples or every 2 hours?	[✓]	___	___
Was ICV for cyanides distilled?	[___]	___	✓
ACTION: If no for any of the above, write in the Contract-Problem/Non-Compliance section of the "Data Assessment Narrative".			
A.1.12 Form II B (CRDL Standards for AA and ICP) -			
A.1.12.1 Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	[✓]	___	___
Was a mid-range calib. verification standard distilled and analyzed for cyanide analysis?	[___]	___	✓
Was a 2xCRDL (or 2xIDL when IDL>CRDL) analyzed (CRI) for each ICP run? (Note: CRI for AL,Ba,Ca,Fe,Mg,Na,or K is not required.)	[✓]	___	___
ACTION: If no for any of the above, flag as estimated all data falling within the affected ranges. The affected ranges are: AA Analysis - **True Value ± CRDL; ICP Analysis - **True Value ± 2CRDL; CN Analysis - **True Value ± 0.5 x True Value.			

**True value of CRA, CRI or mid-range standard. Substitute IDL for CRDL when IDL > CRDL. Compute the concentration of the missing mid-range standard from the calibration range.

		YES	NO	N/A
A.1.12.2	Was CRI analyzed after ICV/ICB and before the final CCV/CCB, and twice every eight hours of ICP run?	[✓]		
	ACTION: If no, write in Contract Problem/Non-Compliance Section of the "Data Assessment Narrative".			
A.1.12.3	Circle on each Form IIB all the percent recoveries that are outside the acceptance windows.			
	Are CRA and CRI standards within control limits: Metals 80 - 120%R?	[ ]	✓	
	Is mid-range standard within control limits: Cyanide 80 - 120%R?	[ ]		✓
	ACTION: Flag as estimated all sample results within the affected range if the recovery of the standard is between 50-79%; flag only positive data within the affected range if the recovery is between 121-150%; reject all data within the affected range if the recovery is less than 50%; reject only positive data within the affected range if the recovery is greater than 150%. Qualify 50% of the samples on either side of CRI standard outside the control limits.			
	Note: Flag or reject the final results only when sample raw data are within the affected ranges and the CRDL standards are outside the acceptance windows.			
A.1.13	Form III (Initial and Continuing Calibration Blanks)	[✓]		
A.1.13.1	Present and complete?	[ ]		✓
	For both AA and ICP when both are used for the same analyte?	[✓]		
	Was an initial calibration blank analyzed?	[✓]		
	Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?			

		YES	NO	N/A
	ACTION: If no, prepare Telephone Record Log, contact laboratory and write in the Contract-Problems/ Non-Compliance section of the "Data Assessment Narrative".			
A.1.13.2	Circle on each Form III all calibration blank values that are above CRDL (or 2 x IDL when IDL > CRDL).			
	Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	[✓]	___	___
	Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?	[___]	___	✓
	ACTION: If no for any of the above, flag as estimated (J) positive sample results when raw sample value is less than or equal to calibration blank value analyzed between calibration blank with value over CRDL (or 2xIDL) and nearest good calibration blank. Flag five samples on either side of the calibration blank outside the control limits.			
A.1.14	FORM III (Preparation Blank) - (Note: The preparation blank for mercury is the same as the calibration blank.)			
A.1.14.1	Was one prep. blank analyzed for:			
	each Sample Delivery Group (SDG)?	[✓]	___	___
	each batch of digested samples?	[✓]	___	___
	each matrix type?	[✓]	___	___
	both AA and ICP when both are used for the same analyte?	[___]	___	✓
	ACTION: If no for any of the above, flag as estimated (J) all the associated positive data <10 x IDLs for which prep. blank was not analyzed.			
	NOTE: If only one blank was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).			

		YES	NO	N/A
A.1.14.2	Is concentration of prep. blank value greater than the CRDL when IDL is less than or equal to CRDL?	___	[✓]	___
	If yes, is the concentration of the sample with the least concentrated analyte less than 10 times the prep.blank?	___	[___]	✓
	ACTION: If yes, reject (red-line) all associated data greater than CRDL concentration but less than ten times the prep. blank value.			
A.1.14.3	Is concentration of prep. blank value (Form III) less than two times IDL, when IDL is greater than CRDL?	[___]	___	✓
	ACTION: If no, reject (red-line) all positive sample results when sample raw data are less than 10 times the prep. blank value.			
A.1.14.4	Is concentration of prep. blank below the negative CRDL?	___	[✓]	___
	ACTION: If yes, reject (red-line) all associated sample results less than 10xCRDL.			
A.1.15	Form IV (ICP Interference Check Sample)			
A.1.15.1	Present and complete?	[✓]	___	___
	(NOTE: Not required for furnace AA, flame AA, mercury, cyanide and Ca, Mg, K and Na.)			
	Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	[✓]	___	___
	ACTION: If no, flag as estimated (J) all the samples for which AL, Ca, Fe, or Mg is higher than in ICS.			
A.1.15.2	Circle all values on each Form IV that are more than ± 20% of true or established mean value.			
	Are all Interference Check Sample results inside the control limits (± 20%)?	[✓]	___	___
	If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?	[___]	___	✓

		YES	NO	N/A
	ACTION: If no, flag as estimated (J) those positive results for which ICS recovery is between 121-150%; flag all sample results as estimated if ICS recovery falls within 50-79%; reject (red-line) those sample results for which ICS recovery is less than 50%; if ICS recovery is above 150%, reject positive results only (not flagged with a "U").			
A.1.16	Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)- (Note: Not required for Ca, Mg, K, and Na (both matrices), Al, and Fe (soil only.)			
A.1.16.1	Present and complete for: each SDG?	[✓]		
	each matrix type?	[✓]		
	each conc. range (i.e. low, med., high)?	[✓]		
	For both AA and ICP when both are used for the same analyte?	[ ]		✓
	ACTION: If no for any of the above, flag as estimated (J) all the positive data less than four times the spiking levels specified in SOW for which spiked sample was not analyzed.			
	NOTE: If one spiked sample was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).			
A.1.16.2	Was field blank used for spiked sample?		[✓]	
	ACTION: If yes, flag all positive data less than 4 x spike added as estimated (J) for which field blank was used as spiked sample.			
A.1.16.3	Circle on each Form VA all spike recoveries that are outside control limits (75% to 125%).			
	Are all recoveries within control limits?	[ ]	✓	
	If no, is sample concentration greater than or equal to four times spike concentration?	[ ]	✓	

	YES	NO	N/A
ACTION: If yes, disregard spike recoveries for analytes whose concentrations are greater than or equal to four times spike added. If no, circle those analytes on Form V for which sample concentration is less than four times the spike concentration.			
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	[✓]		
ACTION: If no, write in the Contract - Problem/Non - Compliance section of "Data Assessment Narrative".			
A.1.16.4 Aqueous Are any spike recoveries:			
(a) less than 30%?		[✓]	
(b) between 30-74%?		[✓]	
(c) between 126-150%?		[✓]	
(d) greater than 150%?		[✓]	
ACTION: If less than 30%, reject all associated aqueous data; if between 30-74%, flag all associated aqueous data as estimated (J); if between 126-150%, flag as estimated (J) all associated aqueous data not flagged with a "U"; if greater than 150%, reject (red-line) all associated aqueous data not flagged with a "U".			
A.1.16.5 Soil/Sediment Are any spike recoveries:			
(a) less than 10%?		[✓]	
(b) between 10-74%?		[✓]	
(c) between 126-200%?	[✓]	[ ]	
(d) greater than 200%?		[✓]	

		YES	NO	N/A
	ACTION: If less than 10%, reject all associated data; if between 10-74%, flag all associated data as estimated; if between 126-200%, flag as estimated all associated data was not flagged with a "U"; if greater than 200%, reject all associated data not flagged with a "U".			
A.1.17	Form VI (Lab Duplicates)			
A.1.17.1	Present and complete for: each SDG?	[✓]		
	each matrix type?	[✓]		
	each concentration range (i.e. low, med., high)?	[✓]		
	both AA and ICP when both are used for the same analyte?	[ ]		✓
	ACTION: If no for any the above, flag as estimated (J) all the data ≥CRDL* for which duplicate sample was not analyzed.			
	Note: 1. If one duplicate sample was analyzed for more than 20 samples, then first 20 samples do not have to be flagged as estimated.			
	2. If percent solids for soil sample and its duplicate differ by more than 1%, prepare a Form VI for each duplicate pair, report concentrations in ug/L on wet weight basis and calculate RPD or Difference for each analyte.			
A.1.17.2	Was field blank used for duplicate analysis?		[✓]	
	ACTION: If yes, flag all data ≥CRDL* as estimated (J) for which field blank was used as duplicate.			
A.1.17.3	Are all values within control limits (RPD 20% or difference ≤ ±CRDL)?	[✓]		
	If no, are all results outside the control limits flagged with an * on Form I's and VI?	[ ]	✓	
	ACTION: If no, write in the Contract - Problems/Non-Compliance section of "Data Assessment Narrative".			

* Substitute IDL for CRDL when IDL > CRDL.

	YES	NO	N/A

NOTE: 1. RPD is not calculable for an analyte of the sample - duplicate pair when both values are less than IDL.
2. If the result of lab duplicate analyzed by GFAA is rejectable due to coefficient of correlation of MSA, analytical spike recovery, or duplicate injections criteria, do not apply precision criteria to metals analyzed by GFAA.

A.1.17.4 Aqueous

Circle on each Form VI all values that are:

RPD > 50%, or
Difference > CRDL*

	YES	NO	N/A
Is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times *CRDL?		✓	
Is any difference** between sample and duplicate greater than *CRDL where sample and/or duplicate is less than 5 times *CRDL?		✓	

ACTION: If yes, flag the associated data as estimated.

A.1.17.5 Soil/Sediment

Circle on each Form VI all values that are:

RPD > 100%, or

Difference > 2 x CRDL*

	YES	NO	N/A
Is any RPD (where sample and duplicate are both greater than or equal to 5 times *CRDL) : > 100%?		✓	
Is any **difference between sample and duplicate (where sample and/or duplicate is less than 5x*CRDL) : > 2x*CRDL?	✓		

* Substitute IDL for CRDL when IDL > CRDL.
** Use absolute values of sample and duplicate to calculate the difference.

		YES	NO	N/A
	ACTION: If yes, flag the associated data as estimated.			
A.1.18	Field Duplicates			
A.1.18.1	Were field duplicates analyzed?	[ ]	✓	
	ACTION: If yes, prepare a Form VI for each aqueous field duplicate pair. Prepare a Form VI for each soil duplicate pair, if percent solids for sample and its duplicate differ by more than 1%; report concentrations of soils in ug/l on wet weight basis and calculate RPDs or Difference for each analyte.			
	NOTE: 1. Do not calculate RPD when both values are less than IDL. 2. Flag all associated data only for field duplicate pair.			
A.1.18.2	Aqueous			
	Circle all values on self prepared Form VI for field duplicates that are: RPD > 50%, or Difference > CRDL*			
	Is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times *CRDL?		[ ]	✓
	Is any **difference between sample and duplicate greater than *CRDL where sample and/or duplicate is less than 5 times *CRDL?		[ ]	✓
	ACTION: If yes, flag the associated data as estimated.			

* Substitute IDL for CRDL when IDL > CRDL.
** Use absolute values of sample and duplicate to calculate the difference.

	YES	NO	N/A
A.1.18.3 Soil/Sediment			
Circle all values on self prepared Form VI for field duplicates that are: RPD >100%, or Difference > 2 x CRDL*			
Is any RPD (where sample and duplicate are both greater than 5 times *CRDL) : >100%?	___	[___]	✓
Is any **difference between sample and duplicate (where sample and/or duplicate is less than 5x *CRDL): >2x *CRDL?	___	[___]	✓
ACTION: If yes, flag the associated data as estimated.			
A.1.19 Form VII (Laboratory Control Sample) (Note: LCS - not required for aqueous Hg and cyanide analyses.)			
A.1.19.1 Was one LCS prepared and analyzed for:			
each SDG?	[✓]	___	___
each batch samples digested/distilled?	[✓]	___	___
both AA and ICP when both are used for the same analyte?	[___]	___	✓

ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory for submittal of results of LCS. Flag as estimated (J) all the data for which LCS was not analyzed.

NOTE: If only one LCS was analyzed for more than 20 samples, then first 20 samples close to LCS do not have to be flagged as estimated.

* Substitute IDL for CRDL when IDL > CRDL.
** Use absolute values of sample and duplicate to calculate the difference.

		YES	NO	N/A
A.1.19.2	**Aqueous LCS**			
	Circle on each Form VII the LCS percent recoveries outside control limits (80 - 120%) except for aqueous Ag and Sb.			
	Is any LCS recovery: less than 50%?	___	[✓]	___
	between 50% and 79%?	___	[✓]	___
	between 121% and 150%?	___	[✓]	___
	greater than 150%?	___	[✓]	___
	ACTION: Less than 50%, reject (red-line) all data; between 50% and 79%, flag all associated data as estimated (J); between 121% and 150%, flag all positive (not flagged with a "U") results as estimated; greater than 150%, reject all positive results.			
A.1.19.3	**Solid LCS**			
	NOTE: 1. If "Found" value of LCS is rejectable due to duplicate injections or analytical spike recovery criteria, regardless of LCS recovery, flag the associated data as estimated (J). 2. If IDL of an analyte is equal to or greater than true value of LCS, disregard the "Action" below even though LCS is out of control limits.			
	Is LCS "Found" value higher than the control limits on Form VII?	___	[✓]	___
	ACTION: If yes, qualify all associated positive data as estimated.			
	Is LCS "Found" value lower than the Control limits on Form VII?	___	[✓]	___
	ACTION: If yes, qualify all associated data as estimated.			

		YES	NO	N/A
A.1.20	Form IX (ICP Serial Dilution) -			
	NOTE: Serial dilution analysis is required only for initial concentrations equal to or greater than 10 x IDL.			
A.1.20.1	Was Serial Dilution analysis performed for: each SDG?	[✓]	___	___
	each matrix type?	[✓]	___	___
	each concentration range (i.e. low, med.)?	[✓]	___	___
	ACTION: If no for any of the above, flag as estimated all the positive data ≥ 10xIDLs or ≥ CRDL when 10xIDL ≤ CRDL for which Serial Dilution Analysis was not performed.			
A.1.20.2	Was field blank(s) used for Serial Dilution Analysis?	___	[✓]	___
	ACTION: If yes, flag all associated data ≥ 10 x IDL as estimated (J). If 10xIDL ≤ CRDL, flag all data ≥ CRDL.			
A.1.20.3	Are results outside control limit flagged with an "E" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater.	[✓]	___	___
	ACTION: If no, write in the Contract-Problem/Non-Compliance section of the "Data Assessment Narrative".			
A.1.20.4	Circle on each Form IX all percent difference that are outside the control limits for initial concentrations equal to or greater than 10 x IDLs only.			
	Are any % difference values:			
	> 10%?	✓	[ ]	___
	≥ 100%?	___	[✓]	___

		YES	NO	N/A
	ACTION: Flag as estimated (J) all the associated sample data ≥ 10xIDLs (or ≥ CRDL when 10xIDL ≤ CRDL) for which percent difference is greater than 10% but less than 100%. Reject (red-line) all the associated sample results equal to or greater than 10xIDLs (or ≥ CRDL when 10xIDL ≤ CRDL) for which PD is greater than or equal to 100%.			
	Note: Flag or reject on Form I's only the sample results whose associated raw data are ≥ 10xIDL (or ≥ CRDL when 10xIDL≤ CRDL)			
A.1.21	Furnace Atomic Absorbtion (AA) QC Analysis			
A.1.21.1	Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?	[ ]	___	✓
	ACTION: If no, reject the data on Form I's for which duplicate injections were not performed.			
A.1.21.2	Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or Coefficient of Variation (CV) for concentration greater than CRDL?	[ ]	___	✓
	Was a dilution analyzed for sample with analytical spike recovery less than 40%?	[ ]	___	✓
	ACTION: If no for any of the above, flag all the associated data as estimated.			
A.1.21.3	Is *analytical spike recovery outside the control limits (85-115%) for any sample?	___	[ ]	✓
	ACTION: If yes, flag as estimated the affected sample results if the recovery is between 10-84%; if the recovery is between 115-200%, flag the associated positive sample results as estimated; reject the associated sample results if the recovery is less than 10%; reject positive sample results if the recovery is greater than 200%.			

* Analytical spike is not required on the pre-digestion spiked sample.

		YES	NO	N/A
	NOTE: Reject or flag the data only when the affected sample(s) was not subsequently analyzed by Method of Standard Addition.			
A.1.22	Form VIII (Method of Standard Addition Results)			
A.1.22.1	Present?	[ ]		✓
	If no, is any Form I result coded with "S" or a "+"?		[ ]	✓
	ACTION: If yes, write request on Telephone Record Log and contact laboratory for submittal of Form VIII.			
A.1.22.2	Is coefficient of correlation for MSA less than 0.990 for any sample?		[ ]	✓
	ACTION: If yes, reject (red-line) the affected data.			
A.1.22.3	Was *MSA required for any sample but not performed?		[ ]	✓
	Is coefficient of correlation for MSA less than 0.995?		[ ]	✓
	Are MSA calculations outside the linear range of the calibration curve generated at the beginning of the analytical run?		[ ]	✓
	ACTION: If yes for any of the above, flag all the associated data as estimated (J).			
A.1.22.4	Was proper quantitation procedure followed correctly as outlined in the SOW on page B-23?	[ ]		✓
	ACTION: If no, note exception under Contract Problem/ Non-Compliance section of the "Data Assessment Narrative", and prepare a separate list.			

* MSA is not required on LCS and prep. blank.

		YES	NO	N/A
A.1.23	Dissolved/Total or Inorganic/Total Analytes -			
A.1.23.1	Were any analyses performed for dissolved as well as total analytes on the same sample(s).	___	[✓]	___
	Were any analyses performed for inorganic as well as total (organic + inorganic) analytes on the same sample(s)?	___	[___]	✓
	NOTE: 1. If yes, prepare a list comparing differences between all dissolved (or inorganic) and total analytes. Compute the differences as a percent of the total analyte only when dissolved concentration is greater than CRDL as well as total concentration. 2. Apply the following questions only if inorganic (or dissolved) results are (i) above CRDL, and (ii) greater than total constituents. 3. At least one preparation blank, ICS, and LCS should be analyzed in each analytical run.			
A.1.23.2	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 10%?	___	[___]	✓
A.1.23.3	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 50%?	___	[___]	✓
	ACTION: If more than 10%, flag both dissolved (or inorganic) and total values as estimated (J); if more than 50%, reject (red-line) the data for both values.			
A.1.24	Form I (Field Blank) -			
	(Note: Designate "Field Blank" as such on Form I.)			
A.1.24.1	Circle all field blank values on Form I that are greater than CRDL, (or 2 x IDL when IDL > CRDL).			
	Is field blank concentration less than CRDL (or 2 x IDL when IDL > CRDL) for all parameters of associated aqueous and soil samples?	[✓]	___	___

STANDARD OPERATING PROCEDURE

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.1: Data Assessment - Contract Compliance (Total Review)

Date: Jan. 1992
Number: HW-2
Revision: 11

		YES	NO	N/A
	If no, was field blank value already rejected due to other QC criteria?	[ ]		✓
	ACTION: If no, reject (except field blank results) all associated positive sample data less than or equal to five times the field blank value. Reject on Form I's the soil sample results that when converted to ug/L on wet basis are less than or equal to five times the field blank value in ug/L.			
A.1.25	Form X, XI, XII (Verification of Instrumental Parameters).			
A.1.25.1	Is verification report present for:			
	Instrument Detection Limits (quarterly)?	[✓]		
	ICP Interelement Correction Factors (annually)?	[✓]		
	ICP Linear Ranges (quarterly)?	[✓]		
	ACTION: If no, contact TPO of the lab.			
A.1.25.2	Form X (Instrument Detection Limits) - (Note: IDL is not required for Cyanide.)			
A.1.25.2.1	Are IDLs present for: all the analytes?	[✓]		
	all the instruments used?	[✓]		
	For both AA and ICP when both are used for the same analyte?	[ ]		✓
	ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory.			
A.1.25.2.2	Is IDL greater than CRDL for any analyte?		[✓]	
	If yes, is the concentration on Form I of the sample analyzed on the instrument whose IDL exceeds CRDL, greater than 5 x IDL.	[ ]		✓

		YES	NO	N/A
	Action : If no, flag as estimated all values less than five times IDL of the instrument whose IDL exceeds CRDL.			
A.1.25.3	**Form XI (Linear Ranges)**			
A.1.25.3.1	Was any sample result higher than high linear range of ICP.	___	[✓]	___
	Was any sample result higher than the highest calibration standard for non-ICP parameters?	___	[✓]	___
	If yes for any of the above, was the sample diluted to obtain the result on Form I?	[___]	___	✓
	ACTION: If no, flag the result reported on Form I as estimated(J).			
A.1.26	**Percent Solids of Sediments**			
A.1.26.1	Are percent solids in sediment(s): < 50%?	✓	[___]	___
	< 10%?	___	[✓]	___

ACTION: If yes, qualify as estimated all the results of a sample that has per cent solids between 10%-50% (i.e. moisture content between 50%-90%). Reject all the results of a sample that has per cent solids less than 10% (i.e. moisture content greater than 90%).

NOTE: Reject or flag(J) only the sample results that were not previously rejected or flaged due to other QC criteria.

SAMPLENUM	CLIENTID	CASE	SDG	MATRIX	ACCTNUM	PROJECTNUM	RECEIVEDATE
MB00B6-4	MB007L	27965	MB00B6	WA	EPA	68W00082-4A	04/14/00
MB00B6-5	MB007N	27965	MB00B6	WA	EPA	68W00082-4A	04/14/00
MB00B6-6	MB007P	27965	MB00B6	WA	EPA	68W00082-4A	04/14/00
MB00B6-7	MB007Q	27965	MB00B6	WA	EPA	68W00082-4A	04/14/00
MB00B6-8	MB007S	27965	MB00B6	WA	EPA	68W00082-4A	04/14/00
MB00B6-1	MB00B6	27965	MB00B6	WA	EPA	68W00082-4A	04/14/00
MB00B6-2	MB00B7	27965	MB00B6	WA	EPA	68W00082-4A	04/14/00
MB00B6-3	MB00B8	27965	MB00B6	WA	EPA	68W00082-4A	04/14/00

COMPUCHEM
a division of Liberty Analytical
501 Madison Avenue
Cary, NC 27513

SAMPLE DELIVERY GROUP(SDG) TRAFFIC REPORT(TR) COVER SHEET

SDG Number MB00B6

Laboratory Name	COMPUCHEM	Laboratory Code	LIBRTY
Contract No.	68W00082	Case No.	27947
Analysis Price		SDG Turnaround	21 DAY

EPA Sample Numbers in SDG (Listed in Numerical order):

1)	**MB00B6**	7)	**MB007Q**	~~13)~~		~~19)~~	
2)	**MB00B7**	8)	**MB007S**	14)		~~20)~~	
3)	**MB00B8**	9)		15)		21)	
4)	**MB007L**	10)		~~16)~~		22)	
5)	**MB007N**	11)		17)		23)	
6)	**MB007P**	~~12)~~		~~18)~~		~~24)~~	

MS 4/14/00

MB00B6	MB007S
First Sample in SDG	Last Sample in SDG
4/14/00	4/14/00
First Sample Receipt Date	Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature: Melissa Steven Date: 04/14/00

U. S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

MAY 01 2000

Lab Name: CompuChem Contract: 68W00082

Code: LIBRTY Case No.: 27965 SAS No.: SDG No.: MB00B6

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID.
MB007L	MB00B6-4
MB007N	MB00B6-5
MB007P	MB00B6-6
MB007Q	MB00B6-7
MB007S	MB00B6-8
MB00B6	MB00B6-1
MB00B6D	WG2270-2
MB00B6S	WG2270-1
MB00B7	MB00B6-2
MB00B8	MB00B6-3

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: James Medlin Name: James Medlin

Date: 4/24/00 Title: Senior Chemist 3

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

SDG NARRATIVE
CASE # 27965 SDG # MB00B6
CONTRACT # 68W00082

The indicated Sample Delivery Group (SDG) consisting of eight (8) water samples was received into the laboratory information management system (LIMS) on April 14, 2000 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The sample was analyzed, in accordance with EPA CLP Statement of Work (SOW) document ILM04.1 for the complete Inorganic Target Analyte List (TAL) excluding cyanide.

The correlation coefficient for the mercury analytical run is confirmed to be $\geq$ 0.9950.

EQUATIONS FOR LIQUID SAMPLE CALCULATIONS:

Equation for obtaining metals sample results in µg/L as presented on FORM I data sheets from ICP instrument acquired results in µg/L (ppb).

$$\text{Concentration } (\mu g/L) \qquad \frac{C \times F}{I}$$

Where

C = concentration (µg/L)

F = final volume in liters after sample preparation

I = initial volume in liters

Example: Aluminum result in µg/L

$$\frac{78.58\ \mu g/L\ (C) \times 0.05\ L\ (F)}{0.05\ L\ (I)} = 78.58\ \mu g/L \text{ reported as } 78.6\ \mu g/L$$

Equation for obtaining mercury sample results in µg/L as presented on FORM I data sheets from instrument acquired results in µg/L (ppb).

$$\frac{C \times D \times F}{I}$$

Where

C = concentration (µg/L) Hg

D = dilution factor to bring sample into analysis range

F = final volume in liters (0.1 L)

I = initial volume in liters

Example: Mercury result in µg/L

$$\frac{0.9655\ \mu g/L(C) \times 1\ (D) \times 0.1L\ (F)}{0.1\ L\ (I)} = 0.9655\ \mu g/L \text{ reported as } 0.97\ \mu g/L$$

SAMPLE IDs:

The following customer IDs are associated with this SDG:
MB007L MB007N MB007P MB007Q MB007S MB00B6 MB00B7 MB00B8

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within EPA CLP allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = WG2270-1 (MB00B6S) was found to be inside CLP control limits for the requested metal analytes.

CLP control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more. In this case, affected analytes are not flagged even if recoveries are outside percentage recovery control limits.

The sample matrix duplicate, CCN = WG2270-2 (MB00B6D) was inside CLP control limits for the requested metal analytes.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = MB00B6-1L (MB00B6L) was performed in accordance with CLP requirements for ICP analysis.

CLP control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution adjusted concentrations from the original values for all analyte concentrations greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The adjusted sample concentrations were inside CLP control limits for the requested analytes.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

James E. Medlin
Senior Chemist
April 24, 2000

U. S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB007L

Lab Name: CompuChem Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: SDG No.: MB00B6

Matrix (soil/water): WATER Lab Sample ID: MB00B6-4

Level (low/med): LOW Date Received: 04/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	173	B		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	18.5	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.25	B		P
7440-70-2	Calcium	10400			P
7440-47-3	Chromium	0.83	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	0.60	U		P
7439-89-6	Iron	186		J	P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	5430			P
7439-96-5	Manganese	7.0	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.70	U		P
7440-09-7	Potassium	627	B		P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	4700	B		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	0.80	U		P

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Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U. S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB007N

Lab Name: CompuChem Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: _____ SDG No.: MB00B6

Matrix (soil/water): WATER Lab Sample ID: MB00B6-5

Level (low/med): LOW Date Received: 04/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2340			P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	30.8	B		P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	5920			P
7440-47-3	Chromium	4.9	B		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	2.6	B		P
7439-89-6	Iron	2340		J	P
7439-92-1	Lead	6.1			P
7439-95-4	Magnesium	3010	B		P
7439-96-5	Manganese	75.6			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.1	B		P
7440-09-7	Potassium	677	B		P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	2790	B		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	6.0	B		P
7440-66-6	Zinc	15.4	B		P

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Comments: _____

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB007P

Lab Name: CompuChem Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: SDG No.: MB00B6

Matrix (soil/water): WATER Lab Sample ID: MB00B6-6

Level (low/med): LOW Date Received: 04/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	327			P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	19.9	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.28	B		P
7440-70-2	Calcium	11900			P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	1.9	B		P
7439-89-6	Iron	1720		J	P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	6160			P
7439-96-5	Manganese	128			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.2	B		P
7440-09-7	Potassium	691	B		P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	4390	B		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.8	B		P
7440-66-6	Zinc	28.6		J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB007Q

Lab Name: CompuChem Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: SDG No.: MB00B6

Matrix (soil/water): WATER Lab Sample ID: MB00B6-7

Level (low/med): LOW Date Received: 04/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	246			P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	20.0	B		P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.38	B		P
7440-70-2	Calcium	11600			P
7440-47-3	Chromium	1.1	B		P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	0.80	B		P
7439-89-6	Iron	1220		J	P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	6010			P
7439-96-5	Manganese	160			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.2	B		P
7440-09-7	Potassium	640	B		P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	4260	B		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.0	B		P
7440-66-6	Zinc	28.9		J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U. S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB007S FIELD BLANK

Lab Name: CompuChem Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: _____ SDG No.: MB00B6

Matrix (soil/water): WATER Lab Sample ID: MB00B6-8

Level (low/med): LOW Date Received: 04/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	37.0	U		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	0.24	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	10.9	U		P
7440-47-3	Chromium	0.61	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	0.60	U		P
7439-89-6	Iron	14.3	U		P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	6.3	U		P
7439-96-5	Manganese	0.20	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.70	U		P
7440-09-7	Potassium	26.5	U		P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	300	U		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	1.3	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

U. S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00B6

Lab Name: CompuChem Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: SDG No.: MB00B6

Matrix (soil/water): WATER Lab Sample ID: MB00B6-1

Level (low/med): LOW Date Received: 04/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	78.6	B		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	20.3	B		P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	8190			P
7440-47-3	Chromium	0.77	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	0.87	B		P
7439-89-6	Iron	164		J	P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	3390	B		P
7439-96-5	Manganese	10.4	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.70	U		P
7440-09-7	Potassium	677	B		P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.60	B		P
7440-23-5	Sodium	7980		J	P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	0.80	B		P
7440-66-6	Zinc	9.7	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00B7

Lab Name: CompuChem Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: SDG No.: MB00B6

Matrix (soil/water): WATER Lab Sample ID: MB00B6-2

Level (low/med): LOW Date Received: 04/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	74.2	B		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	19.7	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	8350			P
7440-47-3	Chromium	0.71	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	0.60	U		P
7439-89-6	Iron	206		J	P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	3460	B		P
7439-96-5	Manganese	12.8	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.78	B		P
7440-09-7	Potassium	694	B		P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	8130			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	3.8	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00B8

Lab Name: CompuChem Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: SDG No.: MB00B6

Matrix (soil/water): WATER Lab Sample ID: MB00B6-3

Level (low/med): LOW Date Received: 04/14/00

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	83.0	B		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	9.7	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium	4750	B		P
7440-47-3	Chromium	0.68	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	0.82	B		P
7439-89-6	Iron	42.0	B		P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	2560	B		P
7439-96-5	Manganese	1.9	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.70	U		P
7440-09-7	Potassium	276	B		P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	2830	B		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	0.40	B		P
7440-66-6	Zinc	0.80	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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Alice Evans

From: Coene, Nicole <Nicole.Coene@dyncorp.com>
To: 'Evans, Alice' <aevans@compuchemlabs.com>
Sent: Monday, April 24, 2000 11:52 AM
Subject: FW: 27965 -Reply

Alice,

Please note this in the case narrative.

Nicole
-----Original Message-----
From: JENNIFER FERANDA [mailto:FERANDA.JENNIFER@epamail.epa.gov]
Sent: Monday, April 24, 2000 11:50 AM
To: Nicole.Coene@dyncorp.com
Subject: FW: 27965 -Reply

Yes, please note in the SDG narrative. Thanks - Jen

>>> "Coene, Nicole" <Nicole.Coene@dyncorp.com> 04/24/00 11:44am
>>>
Jen,

Do you just want them to note this one in the case narrative?

Nicole
-----Original Message-----
From: Alice Evans [mailto:aevans@compuchemlabs.com]
Sent: Monday, April 24, 2000 11:39 AM
To: Nicole Coene
Subject: 27965

Hi,

For sample MB00AZ, we received the sample tag #69 as listed on the
Traffic
Report but the label

on the tag has an ID B01J0 which is the Organic match for this sample.
The
labels on the bottle

was correct.

Thanks....Alice

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CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

SDG NARRATIVE
CASE # 27965 SDG # MB00AX
CONTRACT # 68W00082

The indicated Sample Delivery Group (SDG) consisting of eight (8) soil samples was received into the laboratory information management system (LIMS) on April 14, 2000 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed, in accordance with EPA CLP Statement of Work (SOW) document ILM04.1 for the metallic analytes contained in the Inorganic Target Analyte List (TAL).

The correlation coefficient for the mercury analytical run is confirmed to be $\geq$ 0.9950.

The cooler temperature bottle was present with samples received on April 14, 2000, and sample temperature was 4 degrees Celsius.

For sample MB00AZ, we received the sample tag #69 as listed on the Traffic Report but the label on the tag has an ID B01J0 which is the Organic match for this sample. The labels on the bottle were correct. This E-mail communication is included per Jennifer Feranda.

EQUATIONS FOR SOLID SAMPLE CALCULATIONS:

Client sample MB00AX is used for illustration.

Any sample result that is $\leq$ the instrument detection limit (IDL) will be entered at the IDL for that analyte.

ICP Equation:

Equation for obtaining metals sample results in mg/Kg as presented on FORM I data sheets from ICP instrument acquired results in ug/L (ppb).

$$\text{Concentration (\% solids) (mg/Kg)} \quad \frac{C \times D \times V}{W \times S}$$

Where

C = concentration (ug/L)

D = dilution factor

V = final volume in liters after sample preparation

W = weight in grams of wet sample

S = % solids/100

Example: aluminum result ug/L to mg/Kg.

$$\frac{9027 \text{ ug/L (C)} \times 1 \text{ (D)} \times 0.2 \text{ L (V)}}{1.0 \text{ g (W)} \times 0.786 \text{ (S)}} = 2296 \text{ mg/Kg reported as } 2300 \text{ mg/Kg}$$

Mercury Equation:

Equation for obtaining mercury sample results in mg/Kg as presented on FORM I data sheets from instrument acquired results in ug/L (ppb).

$$\frac{A \times D \times F}{B \times E}$$

Where

A = ug/L Hg

B = wet weight of sample

D = dilution factor to bring sample into analysis range

E = % solids/100

F = final volume in liters (0.1 L)

Example: mercury result ug/L to mg/Kg

$$\frac{0.10 \text{ ug/L* (A)} \times 1 \text{ (D)} \times 0.1 \text{ (F)}}{0.2 \text{ g (B)} \times 0.786 \text{ (E)}} = 0.0636 \text{ mg/Kg reported as } 0.064 \text{ mg/Kg*}$$

* The result is reported down to the instrument detection limit.

SAMPLE IDs:

The following customer IDs are associated with this SDG:

MN00AX	MN00AY	MN00AZ	MB00B0	MB00B1	MB00B2
MB00B3	MB00B4				

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within EPA CLP allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

COMPUCHEM utilizes a soil Laboratory Control Sample (LCS) purchased from Environmental Resources Associates (ERA). With each lot of soil LCS material purchased, a certification document is included which provides Performance Acceptance Limits ™ (PAL ™). The limits are listed as guidelines for acceptable results and closely approximate the 95% confidence interval. As with any LCS, it is a QC measure used to demonstrate control and any results, which are outside the acceptance criteria, require corrective action up to and including redigesting and reanalyzing the entire sample preparation batch.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = WG2267-1 (MB00AXS) was found to be outside CLP control limits for manganese. The reported concentrations for these analytes are flagged with an "N" on all associated Form 1 and on Form 5a.

An "N" indicates a matrix-related interference in the sample preparation procedure &/or analysis for the flagged analyte. This is normally the consequence of a relatively high anionic content in the sample or (for some sediments) an inconsistent sample matrix relative to that analyte.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

Post-digestion spikes are mandatory for analytes demonstrating unsatisfactory matrix spike recoveries during ICP analysis (excluding silver). The results of such spikes are presented on Form 5b.

Unsatisfactory recovery of post-digestion spikes of this type do not have bearing upon the aforementioned "N" flags, but may indicate interference during analysis &/or a solution matrix which is hostile to the analyte in question.

Satisfactory recovery of an analyte in a post-digestion spike of this type implies interference by the required preparation procedure or in the sample matrix itself. Lack of uniformity for an analyte in sediments will also result in satisfactory recovery of post-digestion spikes after failure in the related matrix spike.

The sample matrix duplicate, CCN = WG2267-2 (MB00AXD) was outside CLP control limits for chromium and lead. The reported concentrations for these analytes are flagged with a "*" on all associated Form 1 and on Form 6.

A "*" indicates a non-homogeneous sample matrix in regard to the flagged analyte. This is normally the consequence of a relatively coarse texture or of a mixed-matrix in sediment samples.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = MB00AX-1 (MB00AXL) was performed in accordance with CLP requirements for ICP analysis.

The adjusted sample concentrations were outside CLP control limits for calcium, which is flagged with an "E" on all associated Form 1, the Cover Page and Form 9.

An "E" indicates that a chemical or physical interference effect was encountered during the analysis of the flagged analyte. As a result of this interference, all values for the analyte in the same matrix must be considered to be estimated quantities.

CLP control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Thomas R. Cole
Chemist II
April 27, 2000

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).
2. When the analytical spike recovery associated with the sample is below 40% after two successive dilutions by Graphite Furnace Atomic Absorption (GFAA).

M: This flag applies to GFAA analyses for concentrations greater than the Contract Required Detection Limit (CRDL). This flag is only used for GFAA if the analytical sample or analytical spike duplicate injection reading is not within 20% of the Relative Standard Deviation (RSD).

N: This flag indicates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

S: This flag applies to GFAA analyses to indicate the reported value was determined by the Method Of Standard Addition (MSA).

W: This flag applies to GFAA analyses when the post-digestion spike (analytical spike) is out of control limits (85% - 115%), while sample absorbance is less than 50% of "spike" absorbance ["spike" is defined as (absorbance or concentration of spike sample) minus (absorbance or concentration of the sample)].

+: This flag applies to GFAA analyses when the correlation coefficient for the MSA is less than 0.995 after two MSA analyses.

NOTE: Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

The extensions: D, S, M, L. A, added to the end of the client ID represent as follows:

D: matrix duplicate
S: matrix spike
M: matrix spike duplicate
L: serial dilution
A: post digestion spike

Method Codes:

P: ICP PLASMA
CV: MERCURY COLD VAPOR AA
CA: MIDI-DISTILLATION SPECTROPHOTOMETRIC
F: FURNACE AA

SAMPLENUM	CLIENTID	CASE	SDG	MATRIX	ACCTNUM	PROJECTNUM	RECEIVEDATE
MB00AX-1	MB00AX	27965	MB00AX	SO	EPA	68W00082-4A	04/14/00
MB00AX-2	MB00AY	27965	MB00AX	SO	EPA	68W00082-4A	04/14/00
MB00AX-3	MB00AZ	27965	MB00AX	SO	EPA	68W00082-4A	04/14/00
MB00AX-4	MB00B0	27965	MB00AX	SO	EPA	68W00082-4A	04/14/00
MB00AX-5	MB00B1	27965	MB00AX	SO	EPA	68W00082-4A	04/14/00
MB00AX-6	MB00B2	27965	MB00AX	SO	EPA	68W00082-4A	04/14/00
MB00AX-7	MB00B3	27965	MB00AX	SO	EPA	68W00082-4A	04/14/00
MB00AX-8	MB00B4	27965	MB00AX	SO	EPA	68W00082-4A	04/14/00

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

MAY 01 2000

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: SDG No.: MB00AX

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID.
MB00AX	MB00AX-1
MB00AXD	WG2267-2
MB00AXS	WG2267-1
MB00AY	MB00AX-2
MB00AZ	MB00AX-3
MB00B0	MB00AX-4
MB00B1	MB00AX-5
MB00B2	MB00AX-6
MB00B3	MB00AX-7
MB00B4	MB00AX-8

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: THE FOLLOWING ANALYTES HAVE BEEN FLAGGED WITH AN "E" TO INDICATE SERIAL DILUTION RESULTS WHICH ARE NOT WITHIN CONTROL LIMITS:
CALCIUM

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Thomas R. Cole Name: Thomas R. Cole

Date: April 27, 2000 Title: Chemist II

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00AX

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: _____ SDG No.: MB00AX

Matrix (soil/water): SOIL Lab Sample ID: MB00AX-1

Level (low/med): LOW Date Received: 04/14/00

% Solids: 78.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2300			P
7440-36-0	Antimony	0.53	U		P
7440-38-2	Arsenic	0.58	U		P
7440-39-3	Barium	19.4	B		P
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	0.051	U		P
7440-70-2	Calcium	420	B	E	P
7440-47-3	Chromium	13.5		*	P
7440-48-4	Cobalt	2.7	B		P
7440-50-8	Copper	3.7	B		P
7439-89-6	Iron	7710			P
7439-92-1	Lead	2.9		* J	P
7439-95-4	Magnesium	509	B		P
7439-96-5	Manganese	242		N J	P
7439-97-6	Mercury	0.064	U		CV
7440-02-0	Nickel	3.8	B		P
7440-09-7	Potassium	152	B		P
7782-49-2	Selenium	0.56	U		P
7440-22-4	Silver	0.15	U		P
7440-23-5	Sodium	203	B		P
7440-28-0	Thallium	1.3	B		P
7440-62-2	Vanadium	13.6			P
7440-66-6	Zinc	27.9			P

Color Before: BROWN Clarity Before: _____ Texture: COARSE

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments: _____

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00AY

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: _____ SDG No.: MB00AX

Matrix (soil/water): SOIL Lab Sample ID: MB00AX-2

Level (low/med): LOW Date Received: 04/14/00

% Solids: 85.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2810			P
7440-36-0	Antimony	0.47	U		P
7440-38-2	Arsenic	0.52	U		P
7440-39-3	Barium	20.6	B		P
7440-41-7	Beryllium	0.34	B		P
7440-43-9	Cadmium	0.045	U		P
7440-70-2	Calcium	575	B	E	P
7440-47-3	Chromium	9.1		*	P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	3.5	B		P
7439-89-6	Iron	10500			P
7439-92-1	Lead	4.5		* J	P
7439-95-4	Magnesium	532	B		P
7439-96-5	Manganese	142		N J	P
7439-97-6	Mercury	0.056	U		CV
7440-02-0	Nickel	2.8	B		P
7440-09-7	Potassium	177	B		P
7782-49-2	Selenium	0.50	U		P
7440-22-4	Silver	0.14	U		P
7440-23-5	Sodium	241	B		P
7440-28-0	Thallium	1.7	B		P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	22.0			P

Color Before: BROWN Clarity Before: _____ Texture: COARSE

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments: _____

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00AZ

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: _____ SDG No.: MB00AX

Matrix (soil/water): SOIL Lab Sample ID: MB00AX-3

Level (low/med): LOW Date Received: 04/14/00

% Solids: 60.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5530			P
7440-36-0	Antimony	0.69	U		P
7440-38-2	Arsenic	1.2	B		P
7440-39-3	Barium	27.4	B		P
7440-41-7	Beryllium	0.50	B		P
7440-43-9	Cadmium	0.066	U		P
7440-70-2	Calcium	868	B	E	P
7440-47-3	Chromium	18.4		*	P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	8.4		J	P
7439-89-6	Iron	9630			P
7439-92-1	Lead	19.3		* J	P
7439-95-4	Magnesium	939	B		P
7439-96-5	Manganese	88.0		N J	P
7439-97-6	Mercury	0.072	U		CV
7440-02-0	Nickel	5.2	B		P
7440-09-7	Potassium	234	B		P
7782-49-2	Selenium	0.72	U		P
7440-22-4	Silver	0.20	U		P
7440-23-5	Sodium	304	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	20.9			P
7440-66-6	Zinc	26.1			P

Color Before: BROWN Clarity Before: _____ Texture: COARSE

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments: _____

14

U. S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00B0

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: SDG No.: MB00AX

Matrix (soil/water): SOIL Lab Sample ID: MB00AX-4

Level (low/med): LOW Date Received: 04/14/00

% Solids: 52.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16500			P
7440-36-0	Antimony	0.74	U		P
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium	135			P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	0.39	B		P
7440-70-2	Calcium	2200		E J	P
7440-47-3	Chromium	45.0		*	P
7440-48-4	Cobalt	16.8	B		P
7440-50-8	Copper	17.3		J	P
7439-89-6	Iron	33600			P
7439-92-1	Lead	28.6		* J	P
7439-95-4	Magnesium	2140			P
7439-96-5	Manganese	781		N J	P
7439-97-6	Mercury	0.16	B		CV
7440-02-0	Nickel	14.1			P
7440-09-7	Potassium	624	B		P
7782-49-2	Selenium	1.6	B		P
7440-22-4	Silver	0.21	U		P
7440-23-5	Sodium	328	B		P
7440-28-0	Thallium	6.0			P
7440-62-2	Vanadium	68.1			P
7440-66-6	Zinc	108			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U. S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00B1

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: _____ SDG No.: MB00AX

Matrix (soil/water): SOIL Lab Sample ID: MB00AX-5

Level (low/med): LOW Date Received: 04/14/00

% Solids: 78.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23400			P
7440-36-0	Antimony	0.62	B		P
7440-38-2	Arsenic	2.3	B		P
7440-39-3	Barium	111			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	0.07	B		P
7440-70-2	Calcium	2100		E J	P
7440-47-3	Chromium	63.4		*	P
7440-48-4	Cobalt	15.8		J	P
7440-50-8	Copper	30.3		J	P
7439-89-6	Iron	41000			P
7439-92-1	Lead	33.2		* J	P
7439-95-4	Magnesium	4380			P
7439-96-5	Manganese	564		N J	P
7439-97-6	Mercury	0.12	B		CV
7440-02-0	Nickel	22.0			P
7440-09-7	Potassium	1910			P
7782-49-2	Selenium	0.74	B		P
7440-22-4	Silver	0.14	U		P
7440-23-5	Sodium	394	B		P
7440-28-0	Thallium	6.2			P
7440-62-2	Vanadium	71.3			P
7440-66-6	Zinc	233			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments: _____

U. S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00B2

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: _____ SDG No.: MB00AX

Matrix (soil/water): SOIL Lab Sample ID: MB00AX-6

Level (low/med): LOW Date Received: 04/14/00

% Solids: 49.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21200			P
7440-36-0	Antimony	0.84	U		P
7440-38-2	Arsenic	3.6	B		P
7440-39-3	Barium	92.8			P
7440-41-7	Beryllium	1.2	B		P
7440-43-9	Cadmium	0.08	U		P
7440-70-2	Calcium	1670	B	E	P
7440-47-3	Chromium	40.0		*	P
7440-48-4	Cobalt	8.1	B		P
7440-50-8	Copper	14.2		J	P
7439-89-6	Iron	22400			P
7439-92-1	Lead	46.4		* J	P
7439-95-4	Magnesium	2290			P
7439-96-5	Manganese	272		N J	P
7439-97-6	Mercury	0.073	B		CV
7440-02-0	Nickel	18.9			P
7440-09-7	Potassium	572	B		P
7782-49-2	Selenium	0.88	U		P
7440-22-4	Silver	0.24	U		P
7440-23-5	Sodium	333	B		P
7440-28-0	Thallium	3.4	B		P
7440-62-2	Vanadium	50.5			P
7440-66-6	Zinc	67.7			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments: _____

U. S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00B3

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: _____ SDG No.: MB00AX

Matrix (soil/water): SOIL Lab Sample ID: MB00AX-7

Level (low/med): LOW Date Received: 04/14/00

% Solids: 33.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11300		J	P
7440-36-0	Antimony	1.2	U		P
7440-38-2	Arsenic	5.6	B		P
7440-39-3	Barium	178			P
7440-41-7	Beryllium	0.93	B		P
7440-43-9	Cadmium	2.2	B	J	P
7440-70-2	Calcium	4590		E J	P
7440-47-3	Chromium	22.9		*	P
7440-48-4	Cobalt	43.1		J	P
7440-50-8	Copper	24.9		J	P
7439-89-6	Iron	65000			P
7439-92-1	Lead	20.7		* J	P
7439-95-4	Magnesium	2380	B		P
7439-96-5	Manganese	4740		N J	P
7439-97-6	Mercury	0.13	B		CV
7440-02-0	Nickel	19.8	B		P
7440-09-7	Potassium	687	B		P
7782-49-2	Selenium	2.2	B		P
7440-22-4	Silver	0.35	U		P
7440-23-5	Sodium	427	B		P
7440-28-0	Thallium	12.0			P
7440-62-2	Vanadium	39.5		J	P
7440-66-6	Zinc	384		J	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments: _____

U. S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB00B4

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 27965 SAS No.: _____ SDG No.: MB00AX

Matrix (soil/water): SOIL Lab Sample ID: MB00AX-8

Level (low/med): LOW Date Received: 04/14/00

% Solids: 45.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12500		J	P
7440-36-0	Antimony	0.86	U		P
7440-38-2	Arsenic	2.6	B		P
7440-39-3	Barium	88.6			P
7440-41-7	Beryllium	0.83	B		P
7440-43-9	Cadmium	0.71	B	J	P
7440-70-2	Calcium	2330		E J	P
7440-47-3	Chromium	30.2		*	P
7440-48-4	Cobalt	12.9	B	J	P
7440-50-8	Copper	17.8		J	P
7439-89-6	Iron	23400			P
7439-92-1	Lead	21.1		* J	P
7439-95-4	Magnesium	2190			P
7439-96-5	Manganese	957		N J	P
7439-97-6	Mercury	0.13	B		CV
7440-02-0	Nickel	12.8	B		P
7440-09-7	Potassium	695	B		P
7782-49-2	Selenium	0.90	U		P
7440-22-4	Silver	0.24	U		P
7440-23-5	Sodium	376	B		P
7440-28-0	Thallium	4.4			P
7440-62-2	Vanadium	41.8		J	P
7440-66-6	Zinc	167		J	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments: _____

COMPUCHEM
a division of Liberty Analytical
501 Madison Avenue
Cary, NC 27513

SAMPLE DELIVERY GROUP(SDG) TRAFFIC REPORT(TR) COVER SHEET

SDG Number MB00AX

Laboratory Name	COMPUCHEM	Laboratory Code	LIBRTY
Contract No.	68W00082	Case No.	27947
Analysis Price		SDG Turnaround	21 DAY

EPA Sample Numbers in SDG (Listed in Numerical order):

1)	**MB00AX**	7)	**MB00B3**	~~13)~~	~~19)~~
2)	**MB00AY**	8)	**MB00B4**	14)	~~20)~~
3)	**MB00AZ**	9)		15)	21)
4)	**MB00B0**	10)		~~16)~~	22)
5)	**MB00B1**	11)		17)	23)
6)	**MB00B2**	~~12)~~		~~18)~~	~~24)~~

MS 4/14/00

MB00AX	MB00B4
First Sample in SDG	Last Sample in SDG
4/14/00	4/14/00
First Sample Receipt Date	Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature: Melissa Stewart Date: 04/14/00

REFERENCE NO. 26

PROJECT NOTE	SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

To: Diamond Aerosol File **Date:** 6/28/00 **Page**: 1 of 1

From: Scott Snyder

Subject: Site Coordinates
References: USGS 7.5-Minute Series (Topographic) Quadrangle for: "Washington, NJ"

START member Scott Snyder determined the latitude and longitude of the Diamond Aerosol Corporation site by locating the site on USGS 7.5-Minute Series (Topographic) Quadrangle for: "Washington, NJ" and using a 1:24,000 scale coordinator to determine the coordinates.

Latitude - 40° 44' 42" N

Longitude - 74° 53' 21" W

REFERENCE NO. 27

START II

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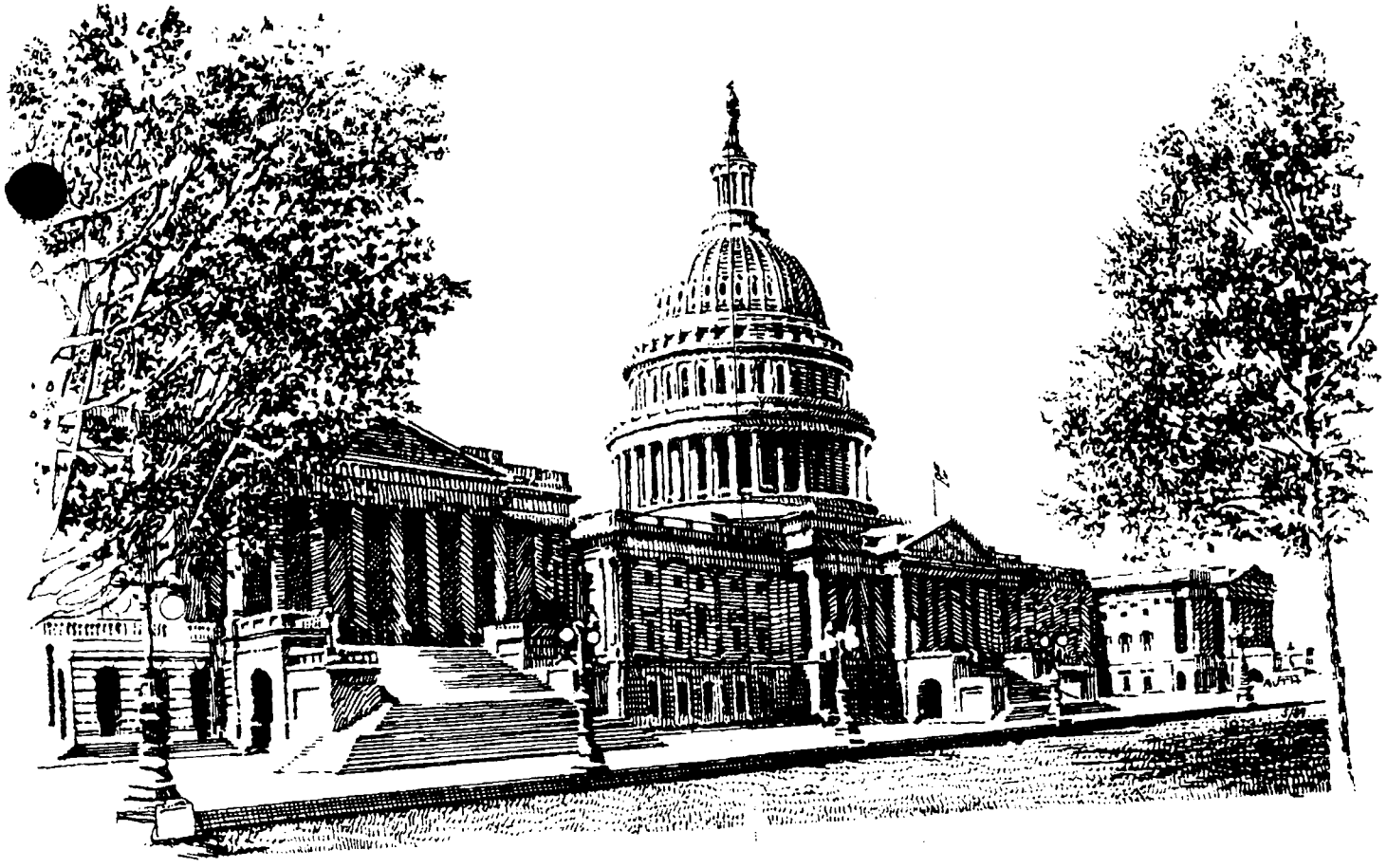
Volume 2

New Jersey - Wyoming,
American Samoa, Guam, Puerto Rico,
and Virgin Islands of the United States

Congressional District Atlas

103rd Congress of the United States



U.S. Department of Commerce
Economics and Statistics Administration
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Volume 2

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Congressional District Atlas

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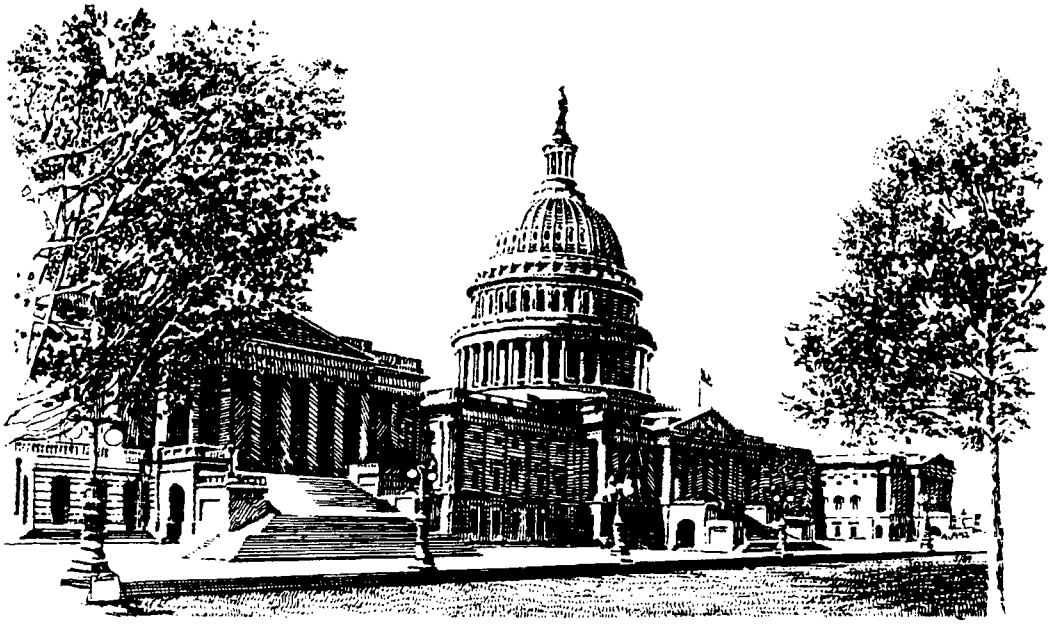
Issued February 1993



U.S. Department of Commerce
Ronald H. Brown, Secretary
John Rollwagen, Deputy Secretary

Economics and Statistics Administration
Jeffrey Mayer, Acting Under Secretary

BUREAU OF THE CENSUS
Harry A. Scarr, Acting Director

Table 1. **Places**

Place	County	Congressional district
Absecon city	Atlantic	2
Allamuchy-Panther Valley CDP	Warren	5
Allendale borough	Bergen	5
Allenhurst borough	Monmouth	6
Allentown borough	Monmouth	4
Alloway CDP	Salem	2
Alpha borough	Warren	5
Alpine borough	Bergen	5
Andover borough	Sussex	5
Annandale CDP	Hunterdon	12
Asbury Park city	Monmouth	6
Atlantic City city	Atlantic	2
Atlantic Highlands borough	Monmouth	6
Audubon borough	Camden	1
Audubon Park borough	Camden	1
Avalon borough	Cape May	2
Avenel CDP	Middlesex	7
Avon-by-the-Sea borough	Monmouth	6
Barnegat CDP	Ocean	3
Barnegat Light borough	Ocean	3
Barrington borough	Camden	1
Bay Head borough	Ocean	4
Bayonne city	Hudson	10,13
Beach Haven borough	Ocean	3
Beach Haven West CDP	Ocean	3
Beachwood borough	Ocean	3
Beattyestown CDP	Warren	5
Beckett CDP	Gloucester	1
Belleville CDP	Essex	8
Bellmawr borough	Camden	1
Belmar borough	Monmouth	6
Belvidere town	Warren	5
Bergenfield borough	Bergen	5
Berkeley Heights CDP	Union	7
Berlin borough	Camden	1
Bernardsville borough	Somerset	12
Beverly city	Burlington	3
Blackwood CDP	Camden	1
Bloomfield CDP	Essex	8
Bloomingdale borough	Passaic	11
Bloomsbury borough	Hunterdon	12
Bogota borough	Bergen	9
Boonton town	Morris	11
Bordentown city	Burlington	4
Bound Brook borough	Somerset	7
Bradley Beach borough	Monmouth	6
Branchville borough	Sussex	5
Brass Castle CDP	Warren	5
Brick Township CDP	Ocean	4
Bridgeton city	Cumberland	2
Brielle borough	Monmouth	4
Brigantine city	Atlantic	2
Brooklawn borough	Camden	1
Brown Mills CDP	Burlington	3
Budd Lake CDP	Morris	11
Buena borough	Atlantic	2
Burlington city	Burlington	4
Butler borough	Morris	11
Caldwell CDP	Essex	11
Califon borough	Hunterdon	12
Camden city	Camden	1
Cape May city	Cape May	2
Cape May Court House CDP	Cape May	2
Cape May Point borough	Cape May	2
Carlstadt borough	Bergen	9
Carneys Point CDP	Salem	2
Carteret borough	Middlesex	13
Cedar Glen Lakes CDP	Ocean	4
Cedar Glen West CDP	Ocean	4
Cedar Grove CDP	Essex	8
Chatham borough	Morris	11
Cherry Hill CDP	Camden	3
Chesilhurst borough	Camden	1
Chester borough	Morris	11
Cinnaminson CDP	Burlington	3
Clark CDP	Union	7
Clayton borough	Gloucester	2
Clearbrook Park CDP	Middlesex	12
Clementon borough	Camden	1
Cliffside Park borough	Bergen	9
Cliffwood Beach CDP	Monmouth	6
Clifton city	Passaic	8
Clinton town	Hunterdon	12
Closter borough	Bergen	5
Collings Lakes CDP	Atlantic	2
Collingswood borough	Camden	1
Colonia CDP	Middlesex	7
Concordia CDP	Middlesex	12
Corbin City city	Atlantic	2
Country Lake Estates CDP	Burlington	3
Crandon Lakes CDP	Sussex	5
Cranford CDP	Union	7
Cresskill borough	Bergen	5
Crestwood Village CDP	Ocean	4
Dayton CDP	Middlesex	12
Deal borough	Monmouth	6
Delanco CDP	Burlington	3
Demarest borough	Bergen	5
Dover town	Morris	11
Dumont borough	Bergen	5
Dunellen borough	Middlesex	6
East Brunswick CDP	Middlesex	12
East Freehold CDP	Monmouth	12
East Hanover CDP	Morris	11
East Newark borough	Hudson	13
East Orange city	Essex	10
East Rutherford borough	Bergen	9
Eatontown borough	Monmouth	12
Edgewater borough	Bergen	9
Edgewater Park CDP	Burlington	3
Edison CDP	Middlesex	6,7
Egg Harbor City city	Atlantic	2
Elizabeth city	Union	10,13
Elmer borough	Salem	2
Elmwood Park borough	Bergen	9
Elwood-Magnolia CDP	Atlantic	2
Emerson borough	Bergen	5
Englewood city	Bergen	9
Englewood Cliffs borough	Bergen	9
Englishtown borough	Monmouth	12
Erma CDP	Cape May	2
Estell Manor city	Atlantic	2
Ewing CDP	Mercer	12
Fairfield CDP	Essex	11
Fair Haven borough	Monmouth	12
Fair Lawn borough	Bergen	5,9
Fairton CDP	Cumberland	2
Fairview borough	Bergen	9
Fairview CDP	Monmouth	6,12
Fanwood borough	Union	7
Far Hills borough	Somerset	12
Farmingdale borough	Monmouth	4
Fieldsboro borough	Burlington	4
Flemington borough	Hunterdon	12
Florence-Roebling CDP	Burlington	4
Florham Park borough	Morris	11
Folsom borough	Atlantic	2
Fords CDP	Middlesex	7
Forked River CDP	Ocean	3
Fort Dix CDP	Burlington	3,4
Fort Lee borough	Bergen	9
Franklin borough	Sussex	5
Franklin Lakes borough	Bergen	5
Freehold borough	Monmouth	12
Frenchtown borough	Hunterdon	12
Garfield city	Bergen	9
Garwood borough	Union	7
Gibbsboro borough	Camden	1
Gibbstown CDP	Gloucester	1
Gilford Park CDP	Ocean	3
Glassboro borough	Gloucester	2
Glendora CDP	Camden	1
Glen Gardner borough	Hunterdon	12
Glen Ridge CDP	Essex	8
Glen Rock borough	Bergen	5
Gloucester City city	Camden	1
Great Meadows-Vienna CDP	Warren	5
Guttenberg town	Hudson	13
Hackensack city	Bergen	9
Hackettstown town	Warren	5
Haddonfield borough	Camden	3
Haddon Heights borough	Camden	1
Haledon borough	Passaic	8
Hamburg borough	Sussex	5
Hammonton town	Atlantic	2
Hampton borough	Hunterdon	12
Hanover Township CDP	Morris	11
Harrington Park borough	Bergen	5
Harrison town	Hudson	13
Harvey Cedars borough	Ocean	3
Hasbrouck Heights borough	Bergen	9
Haworth borough	Bergen	5
Hawthorne borough	Passaic	5
Heathcote CDP	Middlesex	12
Helmetta borough	Middlesex	12
High Bridge borough	Hunterdon	12
Highland Lake CDP	Sussex	5
Highland Park borough	Middlesex	6
Highlands borough	Monmouth	6
Hightstown borough	Mercer	4
Hillsdale borough	Bergen	5
Hillside CDP	Union	10
Hi-Nella borough	Camden	1
Hoboken city	Hudson	13
Ho-Ho-Kus borough	Bergen	5
Holiday City-Berkeley CDP	Ocean	3
Holiday City-Dover CDP	Ocean	3
Holiday City South CDP	Ocean	3
Holiday Heights CDP	Ocean	3
Hopatcong borough	Sussex	11
Hopewell borough	Mercer	12
Interlaken borough	Monmouth	12
Irvington CDP	Essex	8,10
Iselin CDP	Middlesex	7
Island Heights borough	Ocean	3
Jamesburg borough	Middlesex	12
Jersey City city	Hudson	9,10,13
Keansburg borough	Monmouth	6
Kearny town	Hudson	9,13
Kendall Park CDP	Middlesex	12

REFERENCE NO. 28

PROJECT NOTE | **SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM**

To: Diamond Aerosol File **Date:** 7/10/00 **Page**: 1 of 1

From: Scott Snyder

Subject: Flow rate of unnamed tributary

During the sampling event conducted on 13 April 2000, START observed the unnamed tributary flowing along the eastern perimeter of the Diamond Aerosol site. START estimated the flow rate to be less than 10 cubic feet per second (cfs).

REFERENCE NO. 29

TELECON NOTE	SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

CONTROL NO.: 02-00-02-0001 **DATE:** 7/10/00 **TIME:** 1520

DISTRIBUTION: Diamond Aerosol File

BETWEEN: Ralph Helmrich **OF:** Dispensing Containers Corp. **PHONE:** (908) 835-0960

AND: Scott Snyder **Subject:** Contents of glass jars in the old stone barn.

START member Scott Snyder conducted a telephone conversation with Mr. Ralph Helmrich to determine the contents of the partially filled glass jars START observed in the basement of the old stone barn during the on-site reconnaissance. Mr. Helmrich stated that the jars contain dilute pyruvic acid.

REFERENCE NO. 30

SAMPLING TRIP REPORT

SITE NAME: DIAMOND AEROSOL
TDD #: 02-00-12-0001
DCN #: RST-02-F-00156

EPA I.D. NO.: QP

SAMPLING DATES: December 20 & 21, 2000

1. **Site Location:** 62 Anthony Road, Glen Gardner, Hunterdon County, New Jersey (Attachment A)

2. **Sample Descriptions:** Refer to the field testing logs (Attachment B).

3. **Laboratory Receiving Samples:**

Sample Type	Name/Address of Laboratory	Parameters
Waste Liquids	CompuChem 501 Madison Ave. Cary, NC 27513	Ignitability, Corrosivity, Reactivity
Waste Oil	CompuChem 501 Madison Ave. Cary, NC 27513	Ignitability, Corrosivity, Reactivity
Soil	CompuChem 501 Madison Ave. Cary, NC 27513	TCL Pesticides/PCB

4. **Sample Dispatch Data:**

On December 21, 2000, sixteen waste liquid and waste oil samples, including one duplicate sample and three soil samples, including one duplicate sample and extra volume for Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis, were shipped to the CompuChem laboratory via FedEx (airbill Attachment C).

5. **Personnel On Site:**

Name	Affiliation	Duties On-Site
Mark Gallo	U.S. EPA -Region II	On-Scene Coordinator
Paul Kahn	U.S. EPA -Region II	On-Scene Coordinator
Christoph Stannik	RST - Region II	RST Site PM, Field Testing, Sample Management, Site Health & Safety Officer

Ian Baez	RST - Region II	Sampling, Documentation
Rana Salzhauer	RST - Region II	Sampling, Documentation
Steve Cannon	RST - Region II	Sampling, Documentation
Monica Allison	USCG / AST	Visual Inspection/Field Screening
Matthew Leahy	USCG / AST	Visual Inspection/Field Screening
Neal DeKoeyer	USCG / AST	Sampling/Field Screening

6. Additional Comments:

On December 20, 2000, RST and United States Coast Guard/Atlantic Strike Team personnel conducted Level B and Level C entries into the barn and the warehouse areas of the site to conduct visual inspections of the materials and to collect samples for field screening analysis. The materials were located inside a barn, two sheds in the vicinity of the warehouse as well as in a drum storage area on the west side of the warehouse. Air monitoring results did not detect any levels above background on the flame-ionization detector (FID), the photo-ionization detector (PID), or the Micro-R radiation detector.

Following the initial entry, RST labeled twenty-one drums and small containers in the warehouse area for visual inspection and sampling for screening. The USCG/AST labeled eleven containers in the barn for the same purpose. An inventory of labeled and marked containers in the outside storage area, three sheds on the east side of the warehouse and items on a workbench inside the warehouse was also generated by RST (Table 2, Attachment D). Labeled items in the barn/abandoned laboratory area were not inventoried during this site visit.

Of the twenty-one inspected containers in the warehouse area, three drums were found to be frozen solid or empty and could not be sampled. Five other drums contained similar contents, therefore, only one of the five was sampled for field screening. RST collected and field-screened a total of thirteen samples. The USCG/AST collected and field screened ten samples from containers in the barn area. Upon visual inspection, one of the containers in the barn was found to be empty. Field screening tests included ignitability, corrosivity, solubility, oxidizer test, peroxide test, chlorinated solvents test, char test and other tests. A field testing results summary is presented in Table 1 (Attachment B). Drum logs and full field testing results are also included in Attachment B.

On December 21, RST collected five waste samples (including one duplicate sample) from containers in the shed at the southwest corner of the warehouse (Shed # 3) and three oil samples from the drums in the storage area near the warehouse for ignitability, corrosivity and reactivity analysis. RST also collected seven waste samples from the barn area for the same analyses. All samples were selected based on the results of field screening. RST also collected three soil samples (including a duplicate and extra volume for Matrix Spike/Matrix Spike Duplicate) for TCL Pesticide/PCBs analysis. These soil samples were collected from a drum and roll-off dumpster in the barn area. Field testing by the USCG/AST indicated that both the soil in the drum and in the roll-off contained PCBs at greater than 50 ppm.

During the course of the removal assessment, the EPA OSCs requested changes to the original scope of work specified in the QualityAssurance Project Plan (Document Control Number 02-F-00140). These include the elimination of the sampling of the PCB soil piles, the elimination of

the sampling of one of the two drums of suspected PCB-contaminated soil, the addition of sampling of a roll-off containing suspected PCB-contaminated soil, and the reduction in the number of samples to be submitted for laboratory analysis. In addition, the analytical program was changed as follows: For waste liquids and solids, from Full TCLP plus RCRA characteristics to RCRA characteristics only, and for soil samples, from Full TCL analysis to TCL Pesticides/PCBs only.

One of the 55-gallon drums in the storage area on the west side of the warehouse was labeled as containing ether. EPA expressed safety concerns and requested the owner of the facility to transfer this drum to a location away from the active driveways of the facility.

7. Weather Conditions:

Weather conditions were mostly sunny skies, with high temperatures in the low 30s and a westerly wind of 5-15 mph.

8. Report Prepared by:

Christoph Stamik
RST Site Project Manager

Date: 01/03/01

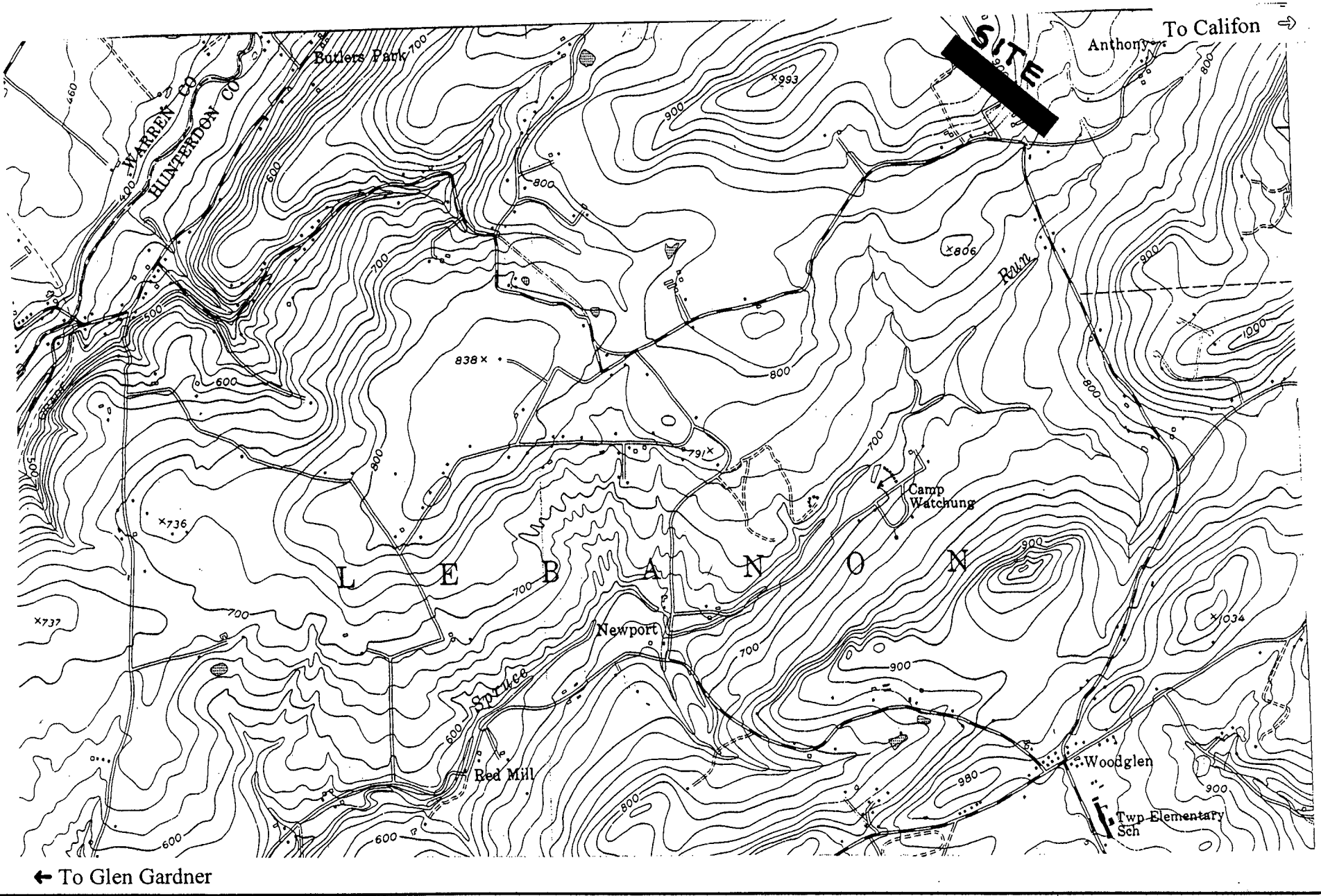
9. Report Reviewed by:

Ian Baez
RST - Region II

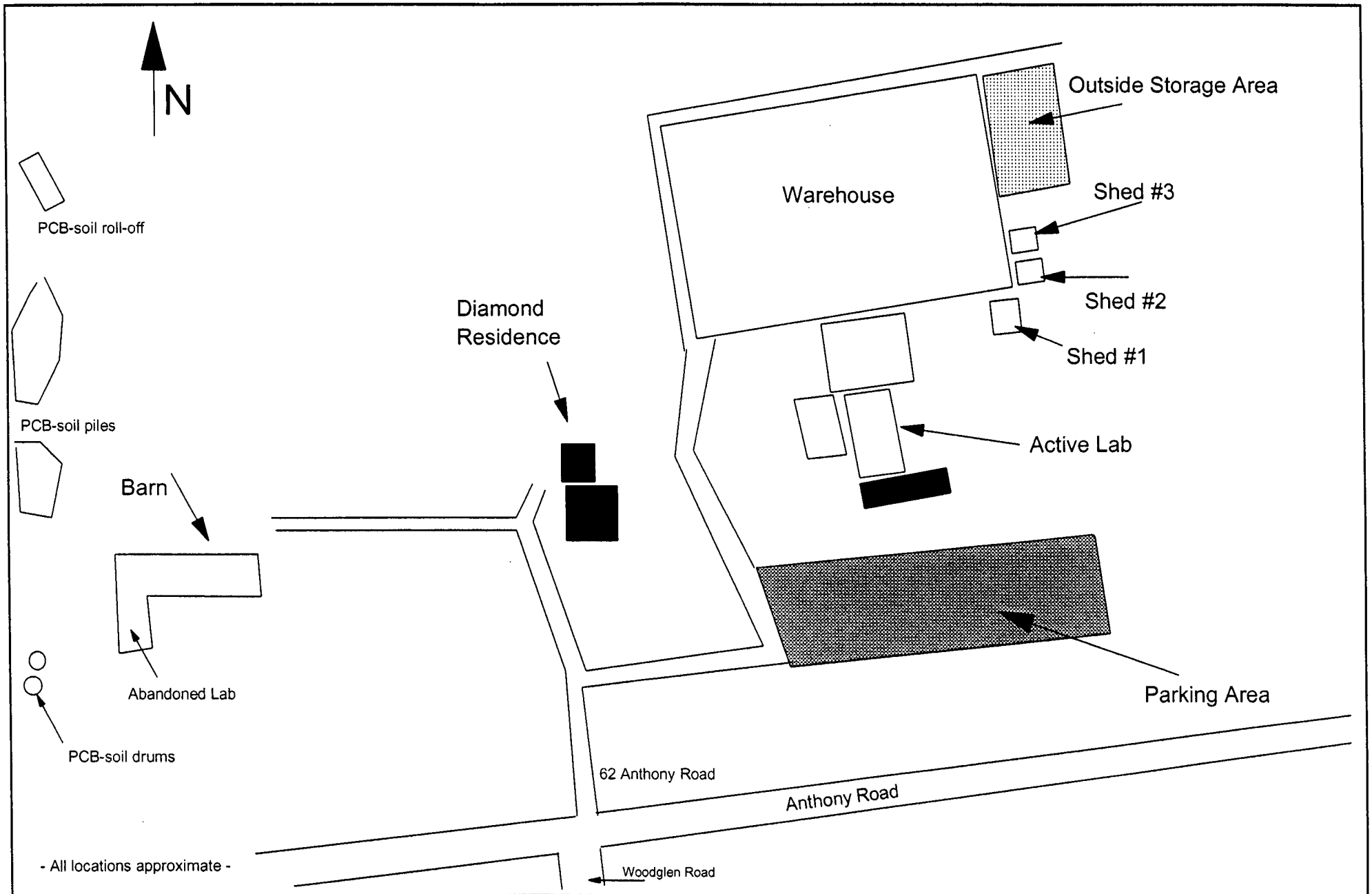
Date: 01/04/01

ATTACHMENT A

Site Location Map
&
Site Map



WESTON MANAGERS DESIGNERS/CONSULTANTS Roy F. Weston, Inc. FEDERAL PROGRAMS DIVISION	EPA PM Mark Gallo	Diamond Aerosol Site Glen Gardner, Hunterdon Co., NJ
IN ASSOCIATION WITH INLAND POLLUTION P.R., INC., RESOURCE APPLICATIONS, INC., AND GRB ENVIRONMENTAL SERVICES, INC.	RST SITE PM Christoph Stannik	**Figure 1:** **Site Location Map**



WESTON MANAGERS DESIGNERS/CONSULTANTS	Roy F. Weston, Inc. FEDERAL PROGRAMS DIVISION	EPA PM Mark Gallo	Diamond Aerosol Site Glen Gardner, Hunterdon Co., NJ
	IN ASSOCIATION WITH INLAND POLLUTION P.R., INC., RESOURCE APPLICATIONS, INC., AND GRB ENVIRONMENTAL SERVICES,	RST SITE PM Christoph Stannik	**Figure 2: Site Sketch** **Not to scale**

ATTACHMENT B

Field Testing Summary (Table 1)
&
Drum Logs

TABLE 1
DIAMOND AEROSOL SITE (12/20 - 12/21/00)
FIELD TESTING RESULTS SUMMARY

Only positive test results are noted, for details, refer to Drum Log/Field Testing sheets following this table.

SAMPLE NUMBER	TEST RESULTS	FIELD CLASSIFICATION	COMMENTS
Warehouse Area (RST Field Testing)			
DA-W-1-005	flammable, hexane-soluble	flammable organic	clear viscous liquid, 14.5 units on FID, sent for lab confirmation
DA-W-1-006	pH 1, water-soluble	inorganic acid	clear watery liquid, 100 units on PID, sent for lab confirmation
DA-W-1-007	pH 1, water-soluble	inorganic acid	clear yellow, watery liquid, 4.2 units on PID, sent for laboratory confirmation
DA-W-1-008	pH 1, water-soluble, not flammable but burns late under torch	inorganic acid w/organic component	dark yellow, viscous liquid, 2.5 units on PID, sent for laboratory confirmation
DA-W-1-009	hexane-soluble, combustible	combustible organic	brown to black solid, PID 0.0 units
DA-W-1-010	water-soluble, pH 6	neutral inorganic	cloudy watery liquid, PID 0.0 units
DA-W-1-015	water-soluble, pH 5	neutral inorganic	clear watery liquid
DA-W-1-017	hexane-soluble, flammable	flammable organic	clear oily liquid, 97 units on PID
DA-W-1-018	hexane-soluble, flammable	flammable organic	clear oily liquid, 1.2 units on PID
DA-W-1-019	hexane-soluble, combustible	combustible organic	clear oily liquid, 0.7 units on PID
DA-W-1-020	hexane-soluble, flammable	flammable organic	clear oily liquid
DA-W-1-021	hexane-soluble, flammable	flammable organic	clear oily liquid, 217 units on PID

SAMPLE NUMBER	TEST RESULTS	FIELD CLASSIFICATION	COMMENTS
Barn/Abandoned Laboratory Area (US Coast Guard/AST Field Testing)			
DA-B-1-001	hexane-soluble, flammable, pH 5, PCB field screen > 50 ppm	flammable organic, PCBs > 50 ppm	opaque oil, 1 unit on PID
DA-B-1-002	water-soluble, pH 7, positive for chloride	neutral inorganic	1 inch of brown watery liquid with 7 dead mice over 3 inches of brown paste-like solid
DA-B-1-003	water-soluble, pH 5, possible positive for chloride	neutral inorganic	clear yellow liquid
DA-B-1-004	hexane-soluble, pH 5, faint positive for peroxide	neutral organic	clear yellow liquid
DA-B-1-006	water-soluble, pH 7, positive for peroxide	neutral inorganic peroxide	clear yellow liquid
DA-B-1-007	hexane-soluble, flammable, pH7, oxidizer, peroxide	flammable organic peroxide	clear liquid
DA-B-1-008	water-soluble, pH 5, copper-wire test positive, chloride-positive	neutral inorganic	clear liquid
DA-B-1-009	water-soluble, pH1, positive for chloride	acid	clear liquid
DA-B-1-010	water-soluble, pH 4	neutral inorganic	liquid
DA-B-1-011	hexane-soluble, flammable, pH 9	flammable organic	amber-colored viscous liquid

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-001

GRID LOCATION FOUND: _____ STAGING LOCATION: SW CORNER OF OUTSIDE STORA (LEFT OF [illegible] WAREHOUSE OVERHE[illegible] DOOR

LOGGER: S. CANNON SAMPLER: UNABLE TO SAMPLE

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☑	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☑
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☑ 10 ☐ 5 ☐ Other _____

MFG NAME	CARBOY, BLACK
CHEMICAL NAME	
DRUM MARKINGS	
DRUM LABELS	

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER PID 0.0 ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	[illegible]TER
Top			X			WATERY			X				
Middle			X										
Bottom			X										

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top										
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-002

GRID LOCATION FOUND: _____ STAGING LOCATION: SHED #3

LOGGER: S. CANNON SAMPLER: IAN BAEZ (UNABLE TO SAMPLE)

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☑	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☑
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☑ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER PID 0.0 ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top			X			SMALL WHITE CHUNKS							
Middle			X			↓							
Bottom			X			↓							

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top										
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-003

GRID LOCATION FOUND: _____ STAGING LOCATION: SHED #3

LOGGER: S. CANNON SAMPLER: I. BAEZ (EMPTY - NO SAMPLE)

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☑	leaking ☐	dented ☐
Steel ☑	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☐
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☑ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	[illegible]
Top													
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top										
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-004

GRID LOCATION FOUND: _____ STAGING LOCATION: SHED #3

LOGGER: S. CANNON SAMPLER: UNABLE TO SAMPLE

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☑	leaking ☐	dented ☐
Steel ☑	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☐
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☑ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top													
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top										
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-005

GRID LOCATION FOUND: _____ STAGING LOCATION: SHED #3

LOGGER: S. CANNON SAMPLER: I. BAEZ

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☑	leaking ☐	dented ☐
Steel ☑	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☐
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☑ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ___ OVA ___ CGI ___ RAD METER ___ OTHER FID 14.5 ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	[illegible]ER
Top		X				VISCUOUS	X				Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	N/A	N	Y		N		N			
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

BURNS W/ ORANGE FLAME, BLACK SMOKE, NO STREAMERS

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: DRUM NUMBER: DA-W-1-006

GRID LOCATION FOUND: STAGING LOCATION: SHED #3

LOGGER: S. CANNON SAMPLER: I. BAEZ

PROJECT NO: DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☑	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☑
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☑ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER PID 100+ ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				WATERY	X			Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	1		N		N		N			
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-007

GRID LOCATION FOUND: _____ STAGING LOCATION: SHED #3

LOGGER: S. CANNON SAMPLER: T. BAEZ

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☑	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☑
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☑ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER PID 4.2 ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	[illegible]
Top		X				YELLOW / WATERY	X			Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	1		N		N					
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: DRUM NUMBER: DA-W-1-008

GRID LOCATION FOUND: STAGING LOCATION: SHED #3

LOGGER: S. CANNON SAMPLER: I. BAEZ

PROJECT NO: DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☑	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☑
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☑ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ___ OVA ___ CGI ___ RAD METER ___ OTHER PID 2.5ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				DARK YELLOW/VISCUOUS	X			Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	1		N		N					
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

NOT FLAMM. W/ MATCH BUT BURNS UNDER TORCH IN THE END.

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-009

GRID LOCATION FOUND: _____ STAGING LOCATION: SHED #1

LOGGER: S. CANNON SAMPLER: I. BAEZ

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☑	leaking ☐	dented ☐
Steel ☑	Nickel ☐	Open Top ☐	Ring Top ☑	bulging ☐	perforated ☐	good ☐
Stainless Steel ☐	Other ☐	Closed Top ☐		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☑ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME "COSMETIC WASH" (HAND-WRITTEN)

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER PID 0.0 ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top			X			BROWN-BLACK / HARD				N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	–	N	Combust.		N				N	
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

BURNS UNDER TORCH

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-010

GRID LOCATION FOUND: _____ STAGING LOCATION: SHED #1

LOGGER: S. CANNON SAMPLER: I. BAEZ DA-W-1-011 –

PROJECT NO: _____ DATE/TIME: 12/20/00 DA-W-1-014

DRUM DESCRIPTION: SAME

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☑ leaking ☐ dented ☐
Steel ☑ Nickel ☐	Open Top ☐ Ring Top ☑	bulging ☐ perforated ☐ good ☐
Stainless Steel ☐ Other ☐	Closed Top ☐	other _____

DRUM SIZE (Gallons): 85 ☐ 55 ☑ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS LATEX / SILICONE

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER PID 0.0ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				WATERY		X		Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	6		N		N					
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-015

GRID LOCATION FOUND: _____ STAGING LOCATION: OUTSIDE STORAGE AT WAREHOUSE

LOGGER: S. CANNON SAMPLER: I. BAEZ

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☑	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☑
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☑ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME	CARBOY
CHEMICAL NAME	
DRUM MARKINGS	AMH UNION CARBIDE
DRUM LABELS	

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		✓				WATERY	✓			Y	N	N	N
Middle			✓			NO SAMPLE							
Bottom			✓			" "							

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	5		N		N					
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-016

GRID LOCATION FOUND: _____ STAGING LOCATION: OUTSIDE STORAGE AT WAREHOUSE

LOGGER: S. CANNON SAMPLER: COULD NOT SAMPLE (Frozen)

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☑	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☑
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☑ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top													
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top										
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-017

GRID LOCATION FOUND: _____ STAGING LOCATION: OUTSIDE STORAGE AT WAREHOUSE

LOGGER: I. BAEZ SAMPLER: S. CANNON

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☑ leaking ☐ dented ☐
Steel ☑ Nickel ☐	Open Top ☐ Ring Top ☐	bulging ☐ perforated ☐ good ☐
Stainless Steel ☐ Other ☐	Closed Top ☑	other _____

DRUM SIZE (Gallons): 85 ☐ 55 ☑ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS FLAMMABLE LIQUID

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER PID 97ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				OILY	X			N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	—	N	YES							
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-018

GRID LOCATION FOUND: _____ STAGING LOCATION: OUTSIDE STORAGE AT WAREHOUSE

LOGGER: S. CANNON SAMPLER: I. BAEZ

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☑ leaking ☐ dented ☐
Steel ☑ Nickel ☐	Open Top ☐ Ring Top ☐	bulging ☐ perforated ☐ good ☐
Stainless Steel ☐ Other ☐	Closed Top ☑	other _____

DRUM SIZE (Gallons): 85 ☐ 55 ☑ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS IPA (HANDWRITTEN)

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER PID 1.2 ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				OIL/WATERY	X		X	N	Y	N	N
Middle		X											
Bottom		X											

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	—	N	YES							
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-019

GRID LOCATION FOUND: _____ STAGING LOCATION: OUTSIDE STORAGE AT WAREHOUSE

LOGGER: S. CANNON SAMPLER: J. BARZ

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☑	leaking ☐	dented ☐
Steel ☑	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☐
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS KEYSTONE KLC - 654A 9-11-98

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER PID 0.7 ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	[illegible]
Top		X				OIL	X			N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top		N	Combust.							
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-020

GRID LOCATION FOUND: _____ STAGING LOCATION: OUTSIDE STORAGE AT WAREHOUSE

LOGGER: J. BAEZ SAMPLER: S. CANNON

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☑ leaking ☐ dented ☐
Steel ☑ Nickel ☐	Open Top ☐ Ring Top ☐	bulging ☐ perforated ☐ good ☐
Stainless Steel ☐ Other ☐	Closed Top ☑	other _____

DRUM SIZE (Gallons): 85 ☐ 55 ☑ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS ENTERGOL HLP 32

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				OIL	X			N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top		NO	YES							
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-W-1-021

GRID LOCATION FOUND: _____ STAGING LOCATION: OUTSIDE STORAGE AT WAREHOUSE

LOGGER: I. BAEZ SAMPLER: S. CANNON

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☑	leaking ☐	dented ☐
Steel ☑	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☐
Stainless Steel ☐	Other ☐	Closed Top ☑		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☑ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER PID 217ppm

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	WAX	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				OIL				N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top		N	Y							
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-001

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: M. Allison SAMPLER: R. Salzhauer

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☑	Ring Top ☐	bulging ☐	perforated ☐	good ☑
Stainless Steel ☐	Other glass ☑	Closed Top ☐		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☑ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA 1 ppm CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top						OILY SUBSTANCE			X	N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	5	N	Y	N	N	N	N	NT	N	OVER 50 ppm
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-002

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: M. Allison SAMPLER: R. Salzhauer

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☐ leaking ☐ dented ☐
Steel ☐ Nickel ☐	Open Top ☑ Ring Top ☐	bulging ☐ perforated ☐ good ☑
Stainless Steel ☐ Other GLASS ☒	Closed Top ☐	other 1/8 FULL

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☑ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top	1"	X				BROWN / WATERY		X		Y	N	N	N
Middle						7 DEAD MICE							
Bottom	3"		X			BROWN / PASTE							

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	7	N	N	N	N	YES	N	NT	N	NT
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-003

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: M. ALLISOM SAMPLER: R. SALZHAUER

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☐ leaking ☐ dented ☐
Steel ☐ Nickel ☐	Open Top ☑ Ring Top ☐	bulging ☐ perforated ☐ good ☑
Stainless Steel ☐ Other ☒ GLASS	Closed Top ☐	other 20% FULL

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☑ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top	6"	X				YELLOW	X			N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	5	N	N	N	N	TURNS milky white	N	NT	N	NT
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-004

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: M. ALLISOM SAMPLER: R. SALZHAUER

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☐ leaking ☐ dented ☐
Steel ☐ Nickel ☐	Open Top ☑ Ring Top ☐	bulging ☐ perforated ☐ good ☑
Stainless Steel ☐ Other glass ☑	Closed Top ☐	other 20% FULL

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☑ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLAT	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top	12"	X				YELLOW		X			N	Y	N	N
Middle														
Bottom														

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	5	N	N	N	N	N	FAINT Positive	NT	N	NT
Middle		(BLUE FLAME)								
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-005

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: M. Allison SAMPLER: R. Salzhauer (NO SAMPLE - EMPTY)

PROJECT NO: _____ DATE/TIME: 12/20/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☐	Ring Top ☐	bulging ☐	perforated ☐	good ☐
Stainless Steel ☐	Other ☐	Closed Top ☐		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top													
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top										
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-006

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: M. LEAHY SAMPLER: R. SALZHAUER

PROJECT NO: _____ DATE/TIME: 12/21/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☐ leaking ☐ dented ☐
Steel ☐ Nickel ☐	Open Top ☑ Ring Top ☐	bulging ☐ perforated ☐ good ☑
Stainless Steel ☐ Other GLASS ☒	Closed Top ☐	other 40% FULL

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☑ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	PAT	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				YELLOW	X			Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	7	N	N	N	N	N	Pos.	NT	N	NT
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-007

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: M. LEAHY SAMPLER: R. SALZHAVER

PROJECT NO: _____ DATE/TIME: 12/21/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☐ leaking ☐ dented ☐
Steel ☐ Nickel ☐	Open Top ☐ Ring Top ☐	bulging ☐ perforated ☐ good ☑
Stainless Steel ☐ Other ☑ glass	Closed Top ☑ w/ PLASTIC & TIE	other _____

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☑ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top	2"	X				CLEAR	X			N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	7	N	Pos.	N	Pos.	N	Pos.	NT	N	NT
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-008

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: N. De Koeyer SAMPLER: R. SALZHAUER

PROJECT NO: _____ DATE/TIME: 12/21/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☐ leaking ☐ dented ☐
Steel ☐ Nickel ☐	Open Top ☑ Ring Top ☐	bulging ☐ perforated ☐ good ☑
Stainless Steel ☐ Other glass ☑	Closed Top ☐	other 33% FULL

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other 1 gallon

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	VAT	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				CLEAR	X			Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	5	Pos.	N	N	N	Pos.	N	NT	N	NT
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-009

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: M. LEAHY SAMPLER: R. SALZHAUER

PROJECT NO: _____ DATE/TIME: 12/21/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☐ leaking ☐ dented ☐
Steel ☐ Nickel ☐	Open Top ☑ Ring Top ☐	bulging ☐ perforated ☐ good ☑
Stainless Steel ☐ Other glass ☑	Closed Top ☐	other 30% FULL

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☑ Other _____

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				CLEAR	X			Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	1	N	N	N	N	Pos.	N	NT	N	NT
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-010

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: N. DEKOEYER SAMPLER: R. SALZHAUER

PROJECT NO: _____ DATE/TIME: 12/21/00

DRUM DESCRIPTION:

CONSTRUCTION		TYPE		CONDITION:		
Fiber ☐	Poly ☐	Poly Lined ☐	Overpack ☐	rusted ☐	leaking ☐	dented ☐
Steel ☐	Nickel ☐	Open Top ☑	Ring Top ☐	bulging ☐	perforated ☐	good ☑
Stainless Steel ☐	Other glass ☑	Closed Top ☐		other _____		

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☑ Other _____

MFG NAME Western Chemical Corporation 34 Spring St. Newark, NJ

CHEMICAL NAME Trimethylene glycol

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SALUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	TER
Top		X								Y	N	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	4	N	N	N	N	N	N		N	
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

START - SOP 2009 - ROY F. WESTON, INC. - DRUM INVENTORY LOG

SITE NAME: DIAMOND AEROSOL SAMPLE NO: _____ DRUM NUMBER: DA-B-1-011

GRID LOCATION FOUND: _____ STAGING LOCATION: BARN

LOGGER: M. LEAHY SAMPLER: R. SALZHAUER

PROJECT NO: _____ DATE/TIME: 12/21/00

DRUM DESCRIPTION:

CONSTRUCTION	TYPE	CONDITION:
Fiber ☐ Poly ☐	Poly Lined ☐ Overpack ☐	rusted ☐ leaking ☐ dented ☐
Steel ☐ Nickel ☐	Open Top ☑ Ring Top ☐	bulging ☐ perforated ☐ good ☑
Stainless Steel ☐ Other glass ☑	Closed Top ☐	other 30% FULL

DRUM SIZE (Gallons): 85 ☐ 55 ☐ 42 ☐ 30 ☐ 15 ☐ 10 ☐ 5 ☐ Other 1 gallon

MFG NAME

CHEMICAL NAME

DRUM MARKINGS

DRUM LABELS

FIELD AIR MONITORING INSTRUMENT READINGS: HNu ____ OVA ____ CGI ____ RAD METER ____ OTHER ____

PHYSICAL DESCRIPTION:

Layers			Physical			Color/Description[1]	Clarity			Solubility		Reaction	
PHASE	INCHES	LIQUID	SOLID	SLUDGE	GEL	[1] - Oil, Syrup, Viscuous, Watery, Paste, Chunks, Gel, Spongy, Soaplike, Soft, Hard Powder Crystal Granular, Rubbery	CLEAR	CLOUDY	OPAQUE	WATER	HEXANE	AIR	WATER
Top		X				Amber-Colored Syrup.		X		N	Y	N	N
Middle													
Bottom													

HAZCAT RESULTS:

Layers	pH	Chlorine not wire	Flammable	Cyanide	Oxidizer	Chloride	Peroxide	Mercury	Sulfide	PCB
Top	9	N	Pos.	N	N	N	N		N	
Middle										
Bottom										

ASSIGNED WASTE STREAM - BASED ON INITIAL RCRA HAZARD

TEST COMPATABILITY RESULTS:

Prepared by: _____ Date: _____

ATTACHMENT C

W
A

Airbills & Chain of Custody Records

FedEx 00014/00100 5059267

Dangerous Goods Airbill

Sender's Copy

RETAIN FOR 1 YEAR

RETAIN THIS COPY FOR YOUR RECORDS

The World On Time.

Service Conditions, Declared Value, and Limit of Liability – By using this Airbill, you agree to the service conditions in our current Service Guide or U.S. Government Service Guide. Both are available on request. SEE BACK OF SENDER'S COPY OF THIS AIRBILL FOR INFORMATION AND ADDITIONAL TERMS. We will not be responsible for any claim in excess of $100 per package whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss in a timely manner. Your right to recover from us for any loss includes intrinsic value of the package, loss of sales, interest, profit, attorney's fees, costs, and other forms of damage, whether direct, incidental, consequential, or special, and is limited to the greater of $100 or the declared value but cannot exceed actual documented loss. The maximum declared value for any FedEx Letter and FedEx Pak is $500. Federal Express may, upon your request, and with some limitations, refund all transportation charges paid.

See the FedEx Service Guide for further details

Questions? Call 1•800•Go•FedEx (800)463-3339

1 From (please print and press hard)

Date 12/21/00 Sender's FedEx Account Number 1244-8646-7

Name CHRISTOPH STANNIK Phone (732 225 6116 732-522-3967

Company ROY F WESTON INC

Address 1090 KING GEORGE POST RD Dept/Floor/Suite/Room

City EDISON State NJ ZIP 08837

2 Your Internal Billing Reference Information (Optional) (First 24 characters will appear on invoice) 20026 001 002 0402

3 To (please print and press hard)

Recipient's Name MIKE PEARCE Phone (919 379-4014

Company COMPUCHEM

Address 501 MADISON AVE (We Cannot Deliver to P.O. Boxes or P.O. ZIP Codes) Dept/Floor/Suite/Room

☐ Check here if residence (Extra charge applies for FedEx Express Saver)

To "HOLD" at FedEx location, print FedEx address here)

City CARY State NC ZIP 27513

For HOLD at FedEx Location check here

☐ Hold Weekday ☐ Hold Saturday (Not available at all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

For Saturday Delivery check here

☐ (Extra Charge. Not available to all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.

☒ FedEx Priority Overnight (Next business morning) ☐ FedEx Standard Overnight (Next business afternoon)

☐ FedEx 2Day (Second business day) ☐ FedEx Express Saver (Third business day)

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

☐ FedEx Overnight Freight (Next business day) ☐ FedEx 2Day Freight (Second business day) ☐ FedEx Express Saver Freight (Up to 3 business days)

(Call for delivery schedule. Some restrictions apply. See back for detailed descriptions of freight services.)

5 Packaging

☒ Other Packaging

Dangerous Goods cannot be shipped in FedEx packaging.

6 Special Handling

☒ Dangerous Goods as per attached Shipper's Declaration ☐ Cargo Aircraft Only

7 Payment

Bill to: ☐ Sender (Account no. in section 1 will be billed) ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check

(Enter FedEx account no. or Credit Card no. below)

FedEx Account No. 1545 81227

Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	29	$ .00	$

* When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE, AND LIMIT OF LIABILITY section for further information.

Signature Release Unavailable

PART #150652 • Rev. Date 3/97 ©1994-97 FedEx • PRINTED IN U.S.A.

97 SRC 292

FedEx Tracking Number 802127728381 Form I.D. No. 0204

Page 1 of 1 Pages

Two completed and signed copies of this Declaration must be handed to the operator.

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER AND CARGO AIRCRAFT / ~~CARGO AIRCRAFT ONLY~~

Airport of Departure:

Airport of Destination:

Shipment type: (delete non-applicable) NON-RADIOACTIVE / ~~RADIOACTIVE~~

NATURE AND QUANTITY OF DANGEROUS GOODS

Dangerous Goods Identification: Proper Shipping Name	Class or Division	UN or I.D. No.	Packing Group	Subsidiary Risk	Quantity and Type of Packaging	Packing Inst.	Authorization
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS HYDROCHLORIC ACID)	8	UN 3264	III		2 IP3 IN ONE PLASTIC BOX (1 LITER TOTAL)	Y818	LTD. QTY.

FOR SHIPMENTS WITHIN USA, AK, AND HI ONLY

Additional Handling Information

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Name/Title of Signatory CHRISTOPH STANNIK, ENV SCIENT.

Place and Date EDISON, NJ 12/21/00

Signature (see warning above)

Emergency Telephone Number (Required for US Origin or Destination Shipments) 1800 255 3924

IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

FedEx Dangerous Goods Airbill

00012/00100
5059267

Sender's Copy
RETAIN FOR 1 YEAR
RETAIN THIS COPY FOR YOUR RECORDS

The World On Time.

1 From (please print and press hard)

Date 12/21/00 Sender's FedEx Account Number 1244-8646-7

Sender's Name CHRISTOPH STANNIK Phone 732-522-3967 (732 225 6116)

Company ROY F WESTON INC

Address 1090 KING GEORGE POST RD Dept./Floor/Suite/Room

City EDISON State NJ ZIP 08837

2 Your Internal Billing Reference Information (Optional) (First 24 characters will appear on invoice) 20026.001 002 0402

3 To (please print and press hard)

Recipient's Name MIKE PEARCE Phone (919) 379 4014

Company COMPUCHEM

Address 501 MADISON AVE (We Cannot Deliver to P.O. Boxes or P.O. ZIP Codes) Dept./Floor/Suite/Room

(To "HOLD" at FedEx location, print FedEx address here)

☐ Check here if residence (Extra charge applies for FedEx Express Saver)

City CARY State NY ZIP 27513

For HOLD at FedEx Location check here
☐ Hold Weekday ☐ Hold Saturday (Not available at all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

For Saturday Delivery check here
☐ (Extra Charge. Not available to all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

3a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.
☒ FedEx Priority Overnight (Next business morning) ☐ FedEx Standard Overnight (Next business afternoon)
☐ FedEx 2Day (Second business day) ☐ FedEx Express Saver (Third business day)

3b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.
☐ FedEx Overnight Freight (Next business day) ☐ FedEx 2Day Freight (Second business day) ☐ FedEx Express Saver Freight (Up to 3 business days)
(Call for delivery schedule. Some restrictions apply. See back for detailed descriptions of freight services.)

Service Conditions, Declared Value, and Limit of Liability – By using this Airbill, you agree to the service conditions in our current Service Guide or U.S. Government Service Guide. Both are available on request. SEE BACK OF SENDER'S COPY OF THIS AIRBILL FOR INFORMATION AND ADDITIONAL TERMS. We will not be responsible for any claim in excess of $100 per package whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss in a timely manner. Your right to recover from us for any loss includes intrinsic value of the package, loss of sales, interest, profit, attorney's fees, costs, and other forms of damage, whether direct, incidental, consequential, or special, and is limited to the greater of $100 or the declared value but cannot exceed actual documented loss. The maximum declared value for any FedEx Letter and FedEx Pak is $500. Federal Express may, upon your request, and with some limitations, refund all transportation charges paid.
See the FedEx Service Guide for further details.

Questions? Call 1•800•Go•FedEx (800)463-3339

5 Packaging
☒ Other Packaging
Dangerous Goods cannot be shipped in FedEx packaging.

6 Special Handling
☒ Dangerous Goods as per attached Shipper's Declaration ☐ Cargo Aircraft Only

7 Payment
Bill to: ☐ Sender (Account no. in section 1 will be billed) ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check
(Enter FedEx account no. or Credit Card no. below)
FedEx Account No. 1545 81227
Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	37	$ .00	$

* When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE, AND LIMIT OF LIABILITY section for further information.

Signature Release Unavailable

PART #150652 • Rev. Date 3/97 ©1994-97 FedEx • PRINTED IN U.S.A.

292 97 SRC

FedEx Tracking Number 8021272836 0 Form I.D. No. 0204

Page 1 of 1 Pages

Two completed and signed copies of this Declaration must be handed to the operator.

WARNING
Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: (delete non-applicable)
PASSENGER AND CARGO AIRCRAFT | ~~CARGO AIRCRAFT ONLY~~

Airport of Departure:

Airport of Destination:

Shipment type: (delete non-applicable)
NON-RADIOACTIVE | ~~RADIOACTIVE~~

NATURE AND QUANTITY OF DANGEROUS GOODS

Dangerous Goods Identification: Proper Shipping Name	Class or Division	UN or I.D. No.	Packing Group	Subsidiary Risk	Quantity and Type of Packaging	Packing Inst.	Authorization
FLAMMABLE LIQUID, N.O.S. (CONTAINS BENZENE)	3	UN 1993	III		3 IPS IN ONE PLASTIC BOX (2.5 LITERS TOTAL)	Y 309	LTD. QTY.

FOR SHIPMENTS WITHIN USA, AK, AND HI ONLY

Additional Handling Information

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Name/Title of Signatory CHRISTOPH STANNIK, ENV. SCIENT.
Place and Date EDISON, NJ 12/21/00
Signature (see warning above) Christoph Stannik

Emergency Telephone Number (Required for US Origin or Destination Shipments) 1800 255 3924

IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

No.: 1156

PO No.: 00204490

CHAIN OF CUSTODY RECORD

WESTON
MANAGERS DESIGNERS CONSULTANTS

REMOVAL SUPPORT TEAM
EPA CONTRACT 68-W-00-113
Phone: 732-225-6116 Fax: 732-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II RST
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
DA-W-1-005	12-21-00 10:55	7	H	G	6							X	X	X	
DA-W-1-017	12-21-00 11:00	6	H	G	6							X	X	X	
DA-W-1-018	12-21-00 11:05	6	H	G	6							X	X	X	
DA-W-1-020	12-21-00 11:10	6	H	G	6							X	X	X	
DA-W-1-021	12-21-00 11:15	7	H	G	6							X	X	X	
DA-B-1-001	12-21-00 12:40	7	H	G	6							X	X	X	
DA-B-1-002	12-21-00 12:45	7	H	G	6							X	X	X	
DA-B-1-004	12-21-00 12:50	7	H	G	6							X	X	X	
DA-B-1-006	12-21-00 1300	7	H	G	6							X	X	X	
DA-B-1-007	12-21-00 1305	7	H	G	6							X	X	X	
DA-B-1-008	12-21-00 1310	7	H	G	6							X	X	X	

Comments: TWO COOLERS IN SHIPMENT/RFP COMPLETE PAGE 1 OF 2

Person Assuming Responsibility for Sample: CHRISTOPH STANNIK, WESTON RST PM

Time Date (MM/DD/YY): 1320 12/21/00

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	[signature]		12/21	FEDEX	SHIP TO LAB

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

RFP No.: 1156

PO No.: 0020490

CHAIN OF CUSTODY RECORD

WESTON
MANAGERS DESIGNERS CONSULTANTS

REMOVAL SUPPORT TEAM
EPA CONTRACT 68-W-00-113
Phone: 732-225-6116 Fax: 732-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II RST
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
DA-SS-01	12/21/00 1530	5	M	G	6			X	X						
DA-SS-02	12/21/00 1550	5	M	G	6			X	X						+MS/MSD
DA-SS-03	12/21/00 1600	5	M	G	6			X	X						

Comments: MS/MSD VOLUME PROVIDED FOR SAMPLE DA-SS-02 PAGE 2 OF 2

Person Assuming Responsibility for Sample: CHRISTOPH STANNIK, WESTON RST PM

Time Date (MM/DD/YY): 1600 12/21/00

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	[signature]		12/21	FED EX	SHIPMENT TO LAB
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted ~~Superfund Technical Assessment and Response Team (START)~~ REMOVAL SUPPORT TEAM (RST) for each EPA Region. The WESTON ~~START Contract 68-W5-0019~~ RST provides support to EPA Region II.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON ~~START~~ RST and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice have been tentatively classified by the field response team as:

____ Environmental X Hazardous ____ Comb. (Envir.& Haz.) ____ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

____ Level A X Level B X Level C ____ Level D

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON START are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

This form was prepared by: CHRISTOPH STANNIK Date 12/21/00

Analytical Services TDD No. _____ Date ___/___/___

WESTON Office: Region II ~~START~~ RST, Edison, NJ Phone: 732-225-6116 FAX: 732-225-7037

Laboratory Name: COMPUCHEM CARY, NC

/Hazcom for Laboratory Personnel/ To be attached to each Chain-of-Custody Form

RFP No.: 1156

PO No.: 0020490

CHAIN OF CUSTODY RECORD

WESTON
MANAGERS DESIGNERS CONSULTANTS

REMOVAL SUPPORT TEAM
EPA CONTRACT 68-W-00-113
Phone: 732-225-6116 Fax: 732-225-7037

Matrix Box No.:	Preservative Box
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II RST
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
DA-W-1-006	12-21-00 11:20	7	H	G	6							X	X	X	
DA-W-1-007	12-21-00 10:50	7	H	G	6							X	X	X	
DA-W-1-008	12-21-00 ~~[illegible]~~ 1045	7	H	G	6							X	X	X	
DA-W-1-777	12-21-00 1040	7	H	G	6							X	X	X	
DA-B-1-009	12-21-00 1320	7	H	G	6							X	X	X	

Comments: PAGE 1 OF 1 THIS COOLER / 2 COOLERS IN SHIPMENT / RFP COMPLETE

Person Assuming Responsibility for Sample: CHRISTOPH STANNIK, WESTON RST SITE PM

Time Date (MM/DD/YY): 1320 12/21/00

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	[signature]		12/21	FEDEX	SHIP TO LAB
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted ~~Superfund Technical Assessment and Response Team (START)~~ REMOVAL SUPPORT TEAM (RST) for each EPA Region. The WESTON ~~START~~ RST Contract ~~[redacted]~~ provides support to EPA Region II.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON ~~START~~ RST and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice have been tentatively classified by the field response team as:

____ Environmental X Hazardous ____ Comb. (Envir.& Haz.) ____ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

____ Level A X Level B X Level C ____ Level D

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON START are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

This form was prepared by: CHRISTOPH STANNIK Date 12/21/00

Analytical Services TDD No. _____ Date ___/___/___

WESTON Office: Region II START, Edison, NJ Phone: 732-225-6116 FAX: 732-225-7037

Laboratory Name: COMPUCHEM CARY NC

/Hazcom for Laboratory Personnel/ To be attached to each Chain-of-Custody Form

ATTACHMENT D

Inventory of Labeled & Marked Containers (Table 2)

TABLE 2
DIAMOND AEROSOL SITE (12/20/00)
PRELIMINARY INVENTORY OF LABELED AND MARKED CONTAINERS

A) SHED #3 AND OUTSIDE STORAGE AREA ON EAST SIDE OF WAREHOUSE

Inventory Item #

1, 2 To: Dispensing Containers
Attn: Sam
62 Anthony Road
Glen Gardner, NJ 08826

From: PENRECO
Karns City, PA 16041

Info: (2) 55-gallon drums
Penreco SNOW® WHT PET
CAS No. 08009-03-8
Generic Material Name: Petrolatum
Emergency Phone#: (713) 236-6070

Health: 0
Flammability: 1
Reactivity: 0

Stabilized with <20 ppm butylated hydroxy toluene

3 To: Dispensing Containers
62 Anthony Road
Glen Gardner, NJ 08826

From: The Valspar Corporation
Packaging Coatings Group
31500 Hayman Street
Hayward, CA 94544

Info: 5-gallon drum
ECODEX(tm) Inside Spray B&B
UN 1263; PG III
Paint
Dates: 6-25-99, 8-24-99
Use Before: 3-7-00

Health: 3
Flammability: 2
Reactivity: 0

4, 11 To: Dispensing Containers

From: HOBA?

Info: blue 5-gallon drum
"Muster Sample Chantillion"
Flammable Liquid Label-3

5 To: Dispensing Containers
Attn: Mr. Brent Harris

From: BASF
500 Techne Center Drive
Milford, Ohio 45150

Info: blue 6-gallon drum
"E-coat", "Perm-wash"
UN 1263, Paint
Flammable Liquid
FP < 131°F

6	To:	Advanced Materials Laboratories Attn: Janet 62 Anthony Road Glen Gardner, NJ 08826 (908) 832-5333	From:	ISPRA Israel Product Research Co. Ltd. 16 Galgal Haplada Street Herzelya, 46120, Israel Phone #: 972-9-955-5464
7	To:	Dispensing Containers Attn: Brent Harris	From:	Technical Coatings Co. (a subsidiary of Benjamin Moore) 57 E. Centre Street Nutley, NJ 07110 (201) 667-4900 - Richard Note
	Info:	5-gallon drum Flammable Liquid UN 1263, Paint Polyesther, Varnish		Health: 2 Flammability: 3 Reactivity: 0
8	To:	Dispensing Containers Attn: George Diamond	From:	DuPont Fluorochemicals c/o Scott Specialty Gases Rt. 611 Plumstead, PA 18949
	Info:	small, white gas tank Flammable Gas UN 1030 CAS NO: 75-37-6 ? (75-31-6) Difluoroethane		
9	From:	Technical Coatings Co.		
	Info:	white 5-gallon drum		
10, 12	From:	The Valspar Corporation		
	Info:	(2) 5-gallon drums Flammable Liquid		
13	From:	The Valspar Corporation		
	Info:	5-gallon drum Epoxy		
14	From:	Technical Coatings Co.		
	Info:	gray 5-gallon drum Poly Varnish/End Enamel Flammable Liquid		Health: 2 Flammability: 3 Reactivity: 0

15-18 From: PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272
Info: (4) grey 5-gallon drums
Contains: NJ Trade Secret #00100337-5000, diethylene glycol, monobutyl ether, ethylene glycol m-2-ethylhexyl ether, acrylic resin

19 From: BASF
Info: white 5-gallon drum
FP 131°F
Product Name: EQ16-175D

20 Info: blue container
4 lbs propane

21 Info: gray 5-gallon drum
"Vapor harmful and explosive"
"Keep container closed"

22 From: Kramer
Info: black plastic 10-gallon drum
NaOH, 50%, corrosive

23-25 Info: Airmatic Compressor Sales and Services Corp.
(2) white and (1) red 5-gallon buckets
"good compressor oil"
Phone #s: 800-631-1523, (212) 695-7425, (201) 342-1300, (516) 627-0633

27 Info: Penmat Keystone Precision Lubricants
Philadelphia, PA 19132
Orange, CA 92669
Scarborough, Ontario
5-gallons
"Light oil"

28 Info: Penzoil Co.
Oil City, PA 16301
yellow 5-gallon bucket
Hydra-Flo Dexron II
Automatic Transmission Fluid
D-20897

29 Info: Exxon
Teresstic 32
Empty container

30 Info: Frencharoma Imports Co.
(718) 767-1181
white 5-gallon bucket
Oleo capsicum

31 Info: Aeropres Corp.
NGL aerosol propellants

32 Info: Henkel Corp.
white 5-gallon bucket
"Fatty amino propionate"
Sodium Lauiminodipropionate Amphoteric Surfactants

33 Info: Selvae Inc.
195 Anderson Ave.
Moonachie, NJ

Specially denatured alcohol, 190 proof
Flammable liquid
US Industrial Chemicals Co.
Division of National Distillers and Chemical Corp.

34-38 Info: BASF Corp. Cont. Coatings
500 TechneCenter Drive
Milford, OH 45150
Tel. (513) 576-3100

(5) 5-gallon buckets
EQ16-175D F.P. 131°F
Sample not on TSCA Inventory

39-42 Info: PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

(4) 5-gallon buckets
"CS 3797 Electrodeposition Coating Permeate (9-23-98)

B) WORK BENCH INSIDE WAREHOUSE, SE CORNER

43 Info: (1) 8-oz bottle (full) Quicksilver Gear Lube Oil

44 Info: (1) 1-gallon container (1/4 full) "Hydraulic Jack Oil"

45 Info: (1) 1-gallon paint can full w/ liquid (label info. handwritten/illegible).

46 Info: Eastern Bearings, Inc.
Waltham, Mass.

(1) 5-gallon steel container
Pennwalt Keystone NP-500 7-12-80

47 Info: From: U.S. Industrial Chemicals Co.
Newark, NJ

Addressed to: Plant Industries, Inc.
Container Division
Pine St. Extension
Nashua, NH
(1) 5-gallon steel, closed top, ½ full w/liquid
"Denatured Alcohol" (spray painted over)

48 Info: To: Plant Industries, Inc. (see above for address)

From: McLaughlin, Gormley, King
8810 Tenth Ave.
Minneapolis, Minnesota 55427
(800) 645-6466

(1) 5-gallon closed-top steel container, full
Pyrocide Intermediate 5734
Ingredients:

N-N-Diethyl-M-Toluamide [aka, DEET]	66.5%
Other Isomers	3.5%
N-Octyl Bicycloheptene Dicarboximide	20%
2,3,4,5-Bis(2-Butylene) Tetrahydro-2-Furaldehyde	5%

Fish Toxic EPA Reg. No. 1021-567 EPA EST. 102-MN-1

49 Info: From: Union Carbide
Tarrytown Technical Center
PO Box 65
Tarrytown, NY 10591

Addressed to: Mr. Frank Venus
Plant Industries
Container Division
1235 South State College Blvd.
Anaheim, CA 92806

(1) 5-gallon poly. container
6-12 Plus Cream Lotion

50 Info: (1) 5-gallon container
"Honing Oil"

C) OUTSIDE SHED #2

51 Info: From: ISPRA LTD.
16 Galgal Haplada St.
Industrial Zone
P.O. 3061 Herzelia 46130
Herzelia 46722
Telephone: 052-555464

To: Advanced Materials Labs, Inc.
70-09 Austin Street, Suite 205
Forest Hills, NY 11375
Attn: Malka
Tel. (718) 520-8911

(1) 55-gallon open-top drum filled with crushed pepper spray containers
Tear Gas, IMCO Class 6.1, UN No. 1693, Page 6232

52 Info: From: Marisol Inc. M-3-712
125 Factory Lane
Middlesex, NJ 08846
Tel. (908) 469-5100

(1) 55-gallon open-top drum filled with crushed pepper spray containers.

Label Info: Stabelene TRI
M-3-712
Contains Trichloroethylene, Stabilized.

53 Info: (1) 55-gallon open-top drum filled with crushed pepper spray containers
"R54596", "6-30-94"

D) SHED #2

54 Info: To: Dispensing Containers
Attn: Sam
62 Anthony Road
Glen Gardner, NJ 08826

From: PENRECO
Karns City, PA 16041

(Approx. 40-45) 55-gallon drums (empty)
Penreco SNOW® WHT PET
144007 K0049A/K7073A (Batch #s)
CAS NO: 08009-03-8
Generic Material Name: Petrolatum
Emergency Phone #: (713) 236-6070

Health: 0
Flammability: 1
Reactivity: 0

Stabilized with <20 ppm butylated hydroxy toluene

E) SHED#1

55 Info: (5) 55-gallon drums
Latex/silicone
White 13280/13312
(RST Drum Numbers DA-W-1-010 to DA-W-1-014)

56 (1) 5-gallon steel pail
Latex/silicone
62326

57 (1) 15-gallon steel drum
"Cosmetic Wash"
(RST Drum and Sample Number DA-W-1-009)

REFERENCE NO. 31

SAMPLING TRIP REPORT

SITE NAME: Diamond Aerosol Corporation
DCN No.: RFW-054-2B-AHHR
W.O.: 20064-052-100-4042
CASE NO.: 28924

EPA I.D. NO.: NJD049644438

SAMPLING DATES: 22 January 2001-25 January 2001, 29 January 2001-1 February 2001

1. Site Location: Refer to Figure 1

2. Sample Locations: Refer to Figures 2, 2A

3. Sample Descriptions: Refer to Table 1

4. Laboratories Receiving Samples:

Sample Type	Name and Address of Laboratory
Target Compound List (TCL) Organics	Liberty Analytical 501 Madison Avenue Cary, NC 27513
Low Concentration Target Compound List (TCL) Organics	Mitkem Corporation 175 Metro Center Boulevard Warwick, RI 02886
Target Analyte List (TAL) Metals (including cyanide)	Sentinel, Inc. 116 Washington Street, NE Huntsville, AL 35801

5. Sample Dispatch Data:

Eleven aqueous samples and 20 soil/sediment samples for TAL metals (including cyanide) analysis were shipped to Sentinel, Inc., on 1/23/01 at 0900 hours via Federal Express (Airbill No. 818366878760). Traffic Report indicates samples were shipped on 1/22/01 at 2000 hours.

Eleven aqueous samples and 20 soil/sediment samples for TCL volatiles, BNA and Pesticides/PCB analysis, and one aqueous sample for volatiles analysis only, were shipped to Liberty Analytical on 1/22/01 at 2000 hours via Federal Express (Airbill No. 818366878807). Traffic Report indicates samples were shipped on 1/22/01 at 2000 hours.

Six aqueous samples and 15 soil/sediment samples for TAL metals (including cyanide) analysis were shipped to Sentinel, Inc., on 1/23/01 at 1730 hours via Federal Express (Airbill No. 818366878770).

Six aqueous samples and 15 soil/sediment samples for TCL volatiles, BNA, and Pesticides/PCB analysis, and one aqueous sample for volatiles only, were shipped to Liberty Analytical on 1/23/01 at 1730 hours via Federal Express (Airbill No. 818366878792).

Six aqueous samples and 17 soil samples for TAL metals (including cyanide) analysis were shipped to Sentinel, Inc., on 1/24/01 at 1730 hours via Federal Express (Airbill No. 818366878748).

Six aqueous samples and 17 soil samples for TCL volatiles, BNA, and Pesticides/PCB analysis, and one aqueous sample for volatiles only, were shipped to Liberty Analytical on 1/24/01 at 1730 hours via Federal Express (Airbill No. 818366878715).

Two aqueous samples and 12 soil samples for TAL metals (including cyanide) analysis were shipped to Sentinel, Inc., on 1/25/01 at 1500 hours via Federal Express (Airbill No. 818366878781).

Two aqueous samples and 12 soil samples for TCL volatiles, BNA, and Pesticides/PCB analysis were shipped to Liberty Analytical at 1500 hours via Federal Express (Airbill No. 818366878704).

Sixteen aqueous samples for TAL metals (including cyanide) analysis were shipped to Sentinel, Inc., on 1/29/01 at 1930 hours via Federal Express (Airbill No. 820568522285).

Sixteen aqueous samples for low concentration TCL volatiles, BNA, and Pesticides/PCB analysis, and one aqueous sample for volatiles only, were shipped to Mitkem Corp. on 1/29/01 at 1930 hours via Federal Express (Airbill No. 818366878830).

Twelve aqueous samples for TAL metals (including cyanide) analysis were shipped to Sentinel, Inc., on 1/30/01 at 1900 hours via Federal Express (Airbill No. 817987245840).

Twelve aqueous samples for low concentration TCL volatiles, BNA, Pesticides/PCB analysis, and one aqueous sample for volatiles only, were shipped to Mitkem Corp. on 1/30/01 at 1900 hours via Federal Express (Airbill No. 818366878737).

Nine aqueous samples for TAL metals (including cyanide) analysis were shipped to Sentinel, Inc., on 2/1/01 at 1430 hours via Federal Express (Airbill No. 817987245851).

Nine aqueous samples for low concentration TCL volatiles, BNA, Pesticides/PCB analysis and two aqueous samples for volatiles only, were shipped to Mitkem Corp. on 2/1/01 at 1430 hours via Federal Express (Airbill No. 818366878818).

6. On-Site Personnel:

Name	Company	Duties on Site
Scott Snyder	Roy F. Weston	Project Manager, Sampler
Harry Allen	Roy F. Weston	Site Health and Safety Officer, Sampler
Kelley Curran	Roy F. Weston	Sample Management Officer
Alison Sedlak	Roy F. Weston	Sampler
Ernie Salazar	Roy F. Weston	Sampler
Bill Morrison	Roy F. Weston	Sampler
Kristen Dobinson	U.S. EPA	EPA Oversite/Community Relations
Denise Zeno	U.S. EPA	EPA Oversite/Community Relations

7. Additional Comments:

From 22 January 2001 through 25 January 2001, Roy F. Weston (WESTON) personnel collected surface soil, subsurface soil, surface water and sediment samples from the Diamond Aerosol Corporation site. All soil samples analyzed for volatile organics were collected using Encore dedicated sampling devises. From 29 January 2001 through 1 February 2001 WESTON personnel collected domestic well samples from residences with a 0.25 mile radius of the Diamond Aerosol Corporation site. All samples were collected as part of an Expanded Site Inspection (ESI) conducted on site. All samples collected by WESTON were analyzed for Target Compound List (TCL) and Target Analyte List (TAL) (including cyanide), parameters through the U.S. EPA Contract Laboratory Program. Domestic well samples were analyzed for Low Concentration TCL parameters. Organic and Inorganic Traffic Reports are presented in Attachment 1.

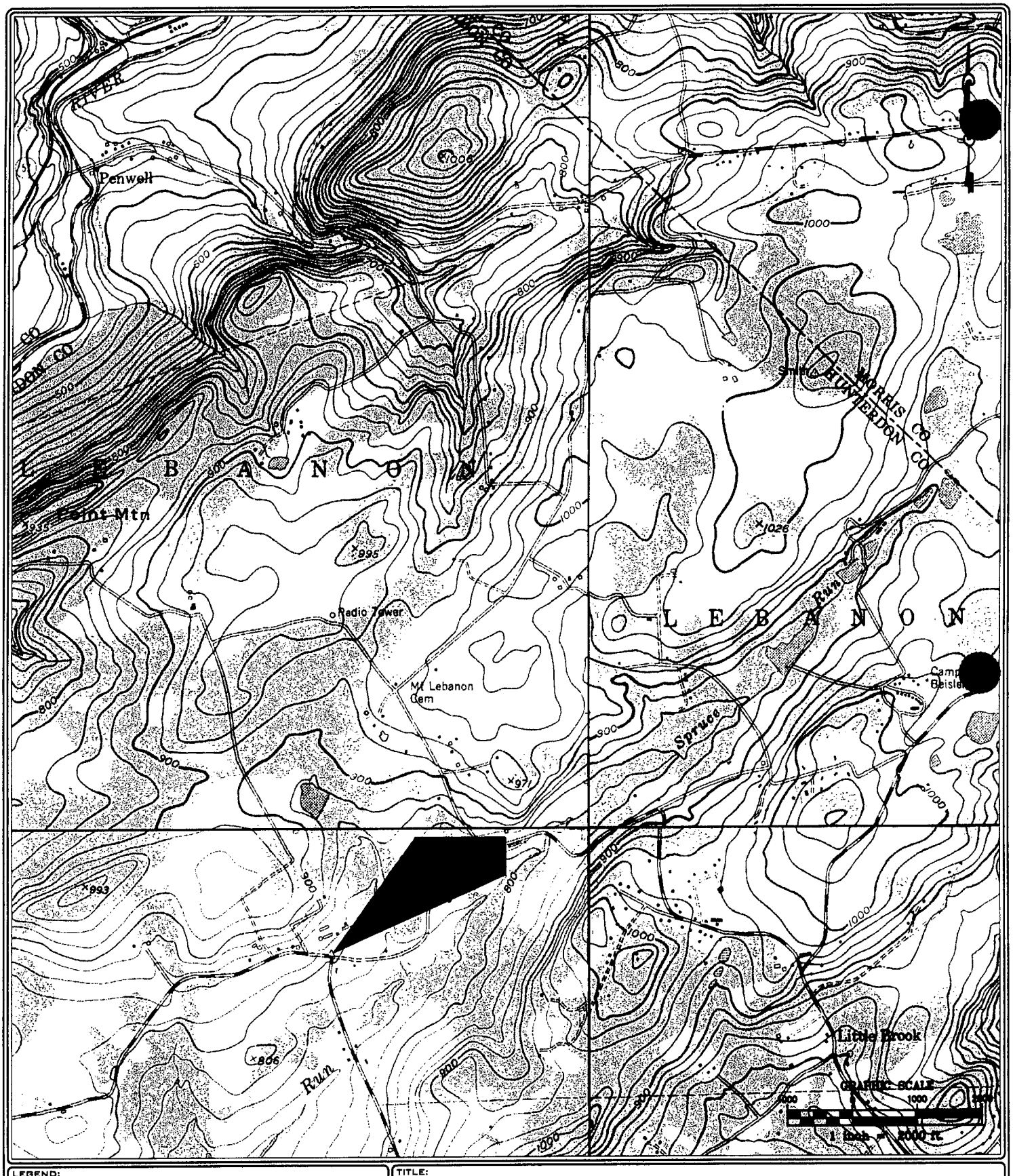
Surface soil samples S17, S27, S28 and S30; subsurface soil samples SS16, SS23, SS24, and SS26; and groundwater sample GW11 were not collected as per the U.S. EPA Site Assessment Manager (SAM). Sample S26 was not collected due to a layer of ice within PCB Soil Drum No. 2. Groundwater sample GW05 was not collected because Monitoring Well No. 5 could not be located. One 40 ml VOA vial collected for sample RB02 was broken prior to shipment.

Sample SS24(BPH65), which was not collected, was listed on the traffic report (388205) received by the organic lab (Liberty Analytical). Sample S24 (BNR83) was the actual sample shipped. In addition, for sample SD05 (BPH81), Liberty Analytical received three Encores and one 8 oz jar labeled with the corresponding inorganic CLP number (MBQB73); the inorganic lab (Sentinel, Inc.) received the sample but it was omitted from the traffic report. Sentinel Inc., received 3 additional samples which were not listed on the traffic report: SS19(MBQB52), SS20 (MBQB53), and SD06 (MBQW82). Organic traffic report 388222 incorrectly indicated that sample DW06 (BPJ13) was assigned organic CLP No. BPJ06. In addition, sample SS12 was collected on 1/23/01 at 1600 hours.

8. Report Prepared by: _____ Date: 2/8/01
Scott Snyder

9. Report Approved by: _____ Date: 2/8/01
W. S. Butterfield, CHMM

SITE LOCATION AND SAMPLING LOCATION MAPS



LEGEND:

EPA TASK MONITOR: C. MOYIK
PROJECT MANAGER: S. SNYDER

TITLE:

ATTACHMENT A

SITE LOCATION MAP

PROJECT: DIAMOND AEROSOL CORPORATION

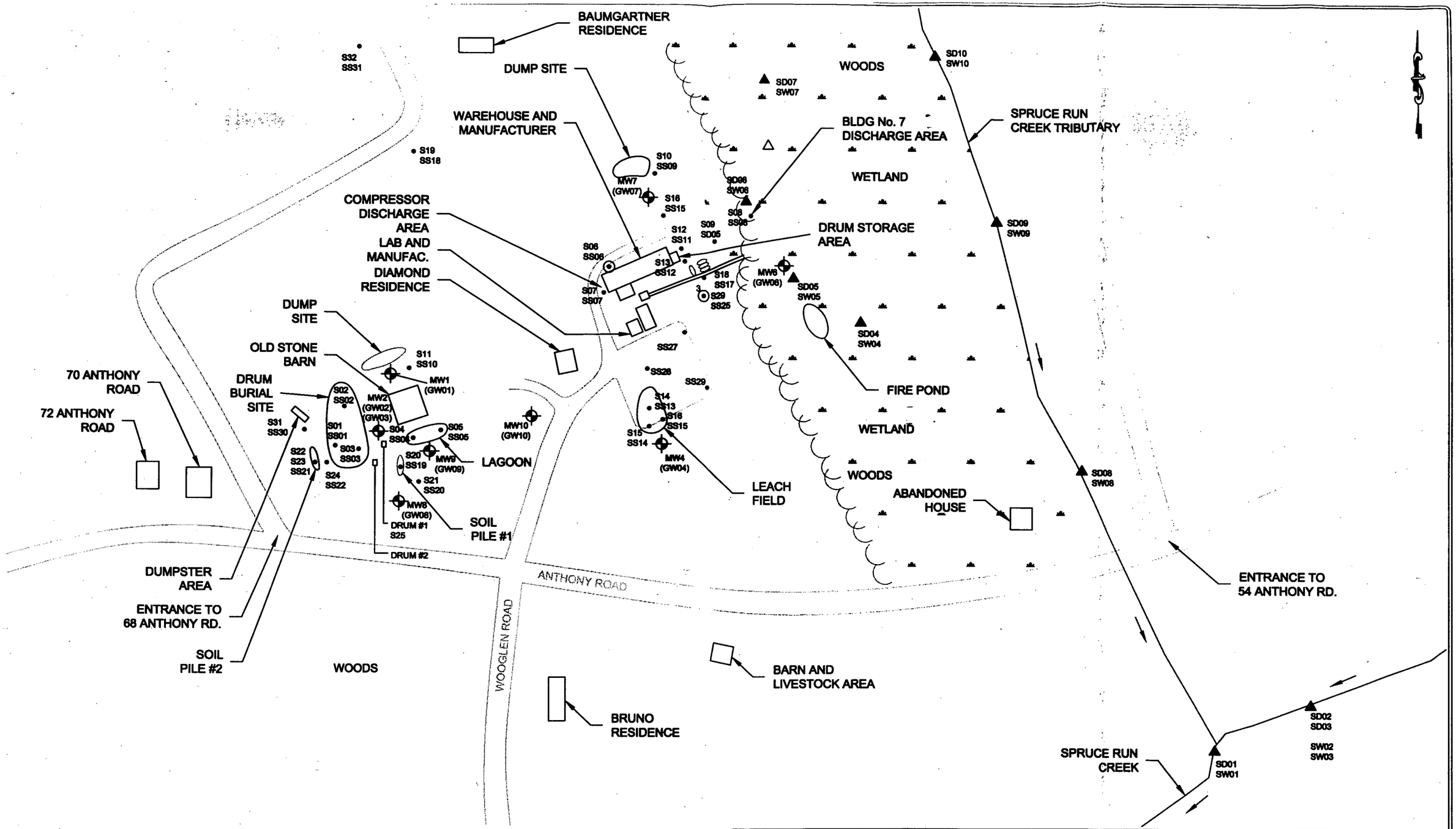
CLIENT NAME: U.S. ENVIRONMENTAL PROTECTION AGENCY

WESTON

DATE: 12/12/00

FIGURE #: 1

00383



LEGEND:
- SURFACE/SUBSURFACE SOIL SAMPLE LOCATION
- SURFACE WATER/ SEDIMENT SAMPLE LOCATION
- DUMP SITE
- PROPANE TANKS
- MONITORING WELL

TITLE: SAMPLE LOCATION MAP

PROJECT: DIAMOND AEROSOL CORPORATION GLEN GARDNER, NEW JERSEY

CLIENT NAME: U.S. ENVIRONMENTAL PROTECTION AGENCY

WESTON

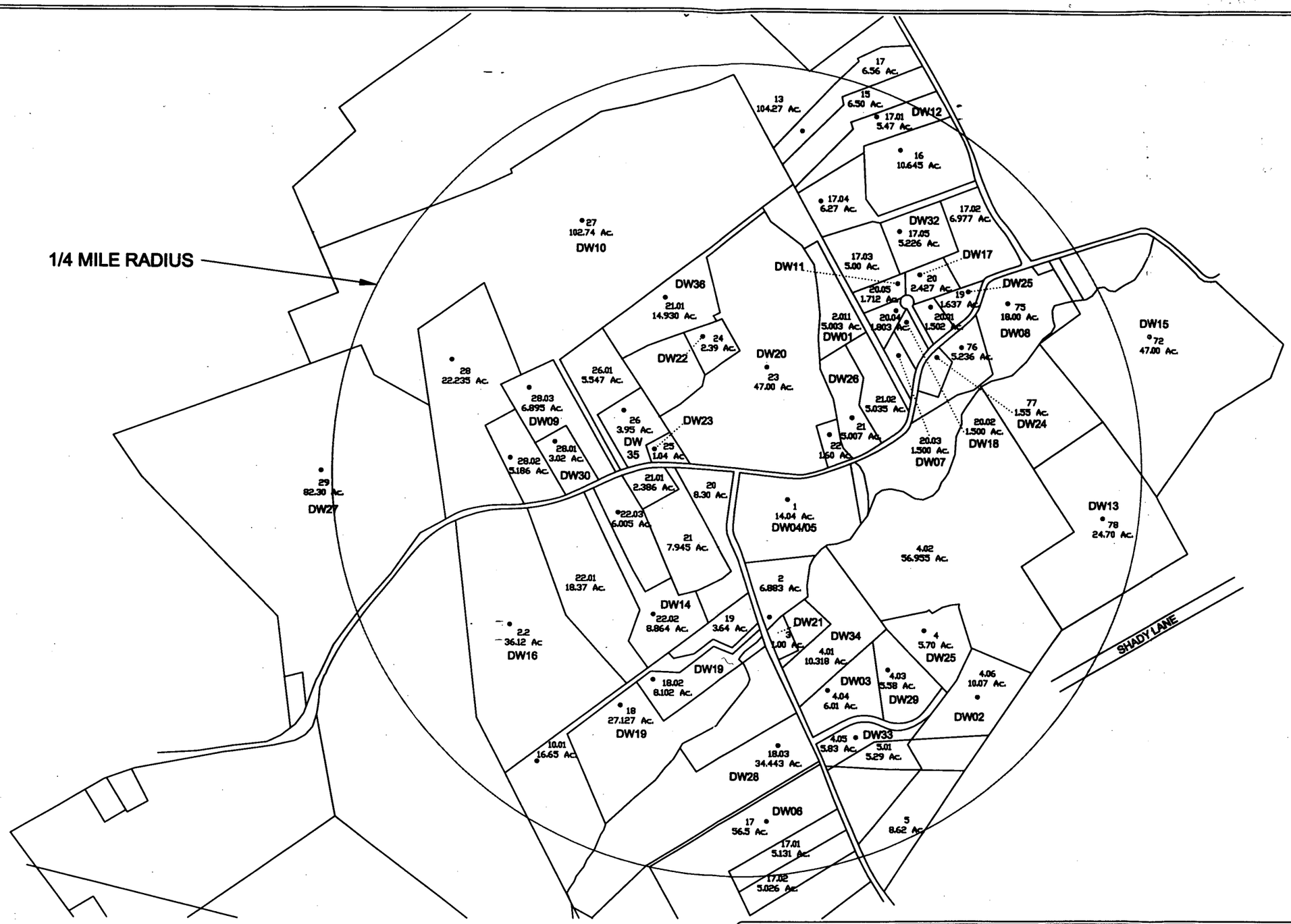
DATE: 2/6/01

FIGURE #: 2

- DRAWING NOT TO SCALE -

EPA TASK MONITOR: C. MOYIK
PROJECT MANAGER: S. SNYDER

00407



GRAPHIC SCALE

400 0 400 800

1 inch = 800 ft.

EPA TASK MONITOR: C. MOYIK
PROJECT MANAGER: S. SNYDER

LEGEND:
● WELL SAMPLING LOCATION
DW01 POTABLE WELL SAMPLE NUMBER

TITLE:
PRIVATE DOMESTIC
WELL SAMPLING LOCATIONS

PROJECT: DIAMOND AEROSOL CORPORATION
GLEN GARDNER, NEW JERSEY

CLIENT NAME: U.S. ENVIRONMENTAL PROTECTION AGENCY

WESTON

DATE: 2/6/01

FIGURE #: 2A

TABLE 1
SAMPLE DESCRIPTIONS
DIAMOND AEROSOL CORPORATION
GLEN GARDNER/LEBANON TWP., NEW JERSEY

SAMPLE NUMBER 4042-	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
TB01	BPJ57	---	1/22/01	0900	Trip Blank QA/QC purposes.
TB02	BPJ58	---	1/23/01	1100	Trip Blank QA/QC purposes.
TB03	BPJ59	---	1/24/01	0910	Trip Blank QA/QC purposes.
TB04	BPJ60	---	1/29/04	1030	Trip Blank QA/QC purposes.
TB05	BPJ61	---	1/30/01	1010	Trip Blank QA/QC purposes.
TB06	BPJ62	---	1/31/01	1010	Trip Blank QA/QC purposes.
TB07	BPJ63	---	2/1/01	1010	Trip Blank QA/QC purposes.
RB01	BPJ48	MBNM36	1/22/01	0910	Rinsate Blank collected from bowl/trowel.
RB02	BPJ49	MBNM37	1/23/01	1100	Rinsate Blank collected from bowl/trowel and geoprobe drive head.
RB03	BPJ50	MBNM38	1/23/01	1105	Rinsate Blank collected from low flow pump impeller assembly.
RB04	BPJ51	MBNM39	1/24/01	1050	Rinsate Blank collected from bowl/trowel, geoprobe drive head, and low flow pump impeller assembly.
RB05	BPJ52	MBNM40	1/25/01	0915	Rinsate Blank collected from bucket auger.
RB06	BPJ53	MBNM41	1/25/01	0935	Rinsate Blank collected from bowl/trowel.
S01	BNR60	MBQA99	1/22/01	1430	Surface soil sample collected from the west side of the former drum burial site using a geoprobe; depth: 0-1.7 feet (MS/MSD).
S02	BNR61	MBQB00	1/22/01	1300	Surface soil sample collected from the north side of the former drum burial site using a geoprobe; depth: 0-1.4 feet.
S03	BNR62	MBQB01	1/22/01	1220	Surface soil sample collected from the south side of the former drum burial site using a geoprobe; depth: 0-1.7 feet.
S04	BNR63	MBQB02	1/24/01	1520	Surface soil sample collected from the west end of the former lagoon area using a geoprobe; depth: 0-1.8 feet.

SAMPLE NUMBER 4042-	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
S20	BNR79	MBQB18	1/22/01	1620	Surface soil sample collected from PCB Soil Pile No. 1 using a geoprobe; depth: 0-1.8 feet.
S21	BNR80	MBQB19	1/22/01	1650	Surface soil sample collected downgradient of PCB Soil Pile No. 1 using a geoprobe; depth: 0-1.8 feet.
S22	BNR81	MBQB20	1/25/01	1055	Surface soil sample collected from PCB Soil Pile No. 2 using a trowel; depth 0-0.5 feet.
S23	BNR82	MBQB21	1/25/01	1055	Duplicate of S22.
S24	BNR83	MBQB22	1/22/01	1525	Surface soil sample collected downgradient of PCB Soil Pile No. 2 using a geoprobe; depth: 0-1.9 feet.
S25	BNR84	MBQB23	1/24/01	1310	Soil sample collected from PCB Soil Drum No. 1 using a trowel.
S29	BNR88	MBQB27	1/24/01	1415	Surface soil sample collected from former burn pit area using a geoprobe; depth: 0-2 feet.
S31	BNR90	MBQB29	1/25/01	1215	Surface soil sample collected adjacent to the dumpster using a trowel; depth: 0-0.6 feet.
S32	BNR91	MBQB30	1/23/01	1205	Background surface soil sample collected upgradient of the site using a geoprobe; depth: 0-1.8 feet.
SS01	BNR95	MBQB34	1/22/01	1420	Subsurface soil sample collected from the west side of the former drum burial area using a geoprobe; depth: 4.8-6.0 feet.
SS02	BNR96	MBQB35	1/22/01	1240	Subsurface soil sample collected from the north side of the former drum burial area using a geoprobe; depth: 4.6-6.0 feet.
SS03	BNR97	MBQB36	1/22/01	1210	Subsurface soil sample collected from the south side of the former drum burial area using a geoprobe; depth: 5.0-6.0 feet.
SS04	BNR98	MBQB37	1/24/01	1530	Subsurface soil sample collected from the west end of the former lagoon area using a geoprobe; depth: 4.0-6.0 feet.
SS05	BNR99	MBQB38	1/24/01	1555	Subsurface soil sample collected from the east end of the former lagoon area using a geoprobe; depth: 4.2-6.0 feet.

SAMPLE NUMBER 4042-	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
SS20	BPH61	MBQB53	1/22/01	1640	Subsurface soil sample collected downgradient of PCB Soil Pile No. 1 using a geoprobe; depth: 4.8-6.0 feet.
SS21	BPH62	MBQB54	1/25/01	1105	Subsurface soil sample collected from PCB soil Pile No. 2 using a bucket auger; depth: 1.0-1.5 feet.
SS22	BPH63	MBQB55	1/22/01	1515	Subsurface soil sample collected downgradient of PCB Soil Pile No. 2 using a geoprobe; depth: 4.7-6.0 feet.
SS25	BPH66	MBQB58	1/24/01	1425	Subsurface soil sample collected from former burn pit area using a geoprobe; depth: 6.3-8.0 feet.
SS27	BPH68	MBQB60	1/23/01	1615	Subsurface soil sample collected from east end of the facility parking area using a geoprobe; depth: 4.0-6.0 feet.
SS28	BPH69	MBQB61	1/24/01	1225	Subsurface soil sample collected from the east end of the facility parking area using a geoprobe; depth: 4.4-6.0 feet.
SS29	BPH70	MBQB62	1/24/01	1155	Subsurface soil sample collected from the east end of the facility parking area using a geoprobe; depth: 4.2-6.0 feet.
SS30	BPH71	MBQB63	1/25/01	1225	Subsurface soil sample collected adjacent to the dumpster using a bucket auger; depth: 2.9-3.8 feet.
SS31	BPH72	MBQB64	1/23/01	1155	Background subsurface soil sample collected upgradient of the site using a geoprobe; depth: 4.8-6.0 feet.
SD01	BPH77	MBQB69	1/22/01	1105	Sediment sample collected from the confluence of the Spruce Run Creek and it's tributary (MS/MSD).
SD02	BPH78	MBQB70	1/22/01	1145	Background sediment sample collected upstream in the Spruce Run Creek.
SD03	BPH79	MBQB71	1/22/01	1145	Duplicate of SD02.
SD04	BPH80	MBQB72	1/22/01	1425	Sediment sample collected from the on-site wetland.

SAMPLE NUMBER 4042-	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
SW10	BPH96	MBQW96	1/23/01	1205	Background surface water sample collected upstream of the site from the Spruce Run Creek tributary.
GW01	BPH97	MBQW97	1/24/01	0950	Groundwater sample collected from MW1.
GW02	BPH98	MBQW98	1/24/01	1155	Groundwater sample collected from MW2.
GW03	BPH99	MBQW99	1/24/01	1155	Duplicate of GW02.
GW04	BPJ00	MBQX00	1/23/01	1235	Groundwater sample collected from MW4.
GW06	BPJ02	MBQX02	1/22/01	1020	Groundwater sample collected from MW6.
GW07	BPJ03	MBQX03	1/22/01	1510	Groundwater sample collected from MW7 (MS/MSD).
GW08	BPJ04	MBQX04	1/24/01	1615	Groundwater sample collected from MW8.
GW09	BPJ05	MBQX05	1/24/01	1445	Groundwater sample collected from MW9.
GW10	BPJ06	MBQX06	1/23/01	1525	Groundwater sample collected from MW10.
DW01	BPJ08	MBQX08	1/29/01	1140	Domestic well sample collected from 3 Beech Brook Lane; Block 57, Lot 21.011.
DW02	BPJ09	MBQX09	1/29/01	1215	Domestic well sample collected from 204 Meadow View Lane; Block 49, Lot 4.06.
DW03	BPJ10	MBQX10	1/29/01	1250	Domestic well sample collected from 201 Meadow View Lane; Block 49, Lot 4.04.
DW04	BPJ11	MBQX11	1/29/01	1150	Domestic well sample collected from 688 Woodglen Road; Block 49, Lot1.
DW05	BPJ12	MBQX12	1/29/01	1200	Duplicate of DW04.
DW06	BPJ13	MBQX13	1/29/01	1235	Domestic well sample collected from 661 Woodglen Road; Block 36, Lot 17.
DW07	BPJ14	MBQX14	1/29/01	1430	Domestic well sample collected from 48 Anthony Road; Block 57, Lot 20.03.
DW08	BPJ15	MBQX15	1/29/01	1515	Domestic well sample collected from 37 Anthony Road; Block 49, Lot 75.
DW09	BPJ16	MBQX16	1/29/01	1545	Domestic well sample collected from 74 Anthony Road; Block 57, Lot 28.03.

SAMPLE NUMBER 4042-	ORGANIC CLP NO.	INORGANIC CLP NO.	DATE	TIME	COMMENTS
DW26	BPJ33	MBNM21	1/30/01	1515	Domestic well sample collected from 54 Anthony Road; Block 57, Lot 21.
DW27	BPJ34	MBNM22	1/30/01	1615	Domestic well sample collected from 86 Anthony Road; Block 57, Lot 29.
DW28	BPJ35	MBNM23	1/30/01	1515	Domestic well sample collected from 671 Woodglen Road; Block 36, Lot 18.03.
DW29	BPJ36	MBNM24	1/31/01	1055	Domestic well sample collected from 203 Meadow View Lane; Block 49, Lot 4.03 (MS/MSD for inorganic analysis).
DW30	BPJ37	MBNM25	1/31/01	1535	Domestic well sample collected from 76 Anthony Road; Block 57, Lot 28.01.
DW31	BPJ38	MBNM26	1/31/01	1740	Domestic well sample collected from 205 Meadow View Lane; Block 49, Lot 4.
DW32	BPJ39	MBNM27	1/31/01	1110	Domestic well sample collected from 1 Dimitra Drive; Block 57, Lot 17.05.
DW33	BPJ40	MBNM28	1/31/01	1820	Domestic well sample collected from 202 Meadow View Lane; Block 49, Lot 4.05.
DW34	BPJ41	MBNM29	1/31/01	1845	Domestic well sample collected from 676 Woodglen Road; Block 49, Lot 4.01.
DW35	BPJ42	MBNM30	1/31/01	1910	Domestic well sample collected from 72 Anthony Road; Block 57, Lot 26.
DW36	BPJ43	MBNM31	2/1/01	1040	Domestic well sample collected from 5 Beech Brook Lane; Block 57, Lot 21.01.
DW37	BPJ44	MBNM32	2/1/01	1225	Domestic well sample collected from 2 Winters Drive; Block 57, Lot 20.01.

United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644348	2. Region No.: 2	Sampling Co.: Weston	4. Date Shipped: 1-22-01
Carrier: FedEx			
Account Code:	Sampler (Name): Kelley Curran	Airbill Number: 8183 6687 8807	
Site Name: Diamond Aerosol Corp.	Sampler Signature: Kelley Curran	5. Ship To: Liberty Analytical 501 Madison Avenue Cary, NC 27513 ATTN: Alice Evans	
City, State: Glen Gardner, NJ	Site Spill ID: ZZ	Op Unit:	

3. Purpose**: Lead [X] SF [ ] PRP [ ] ST [ ] FED [ ] BZ; Early Action [ ] IA [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI; Long-Term Action [ ] RIFS [ ] RD [ ] RA [ ] O&M

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Field Spike D = Field Duplicate R = Rinsate PE = Perform Eval.)
BPJ48	4	L	G	1,5	X	X	X	949-953	4042-RB01	01/22/01/0910	MBNM36	KC	R
BPJ02	2	L	G	1,5	X	X	X	583-587	4042-GW06	01/22/01/1020	MBQX02	KC	—
BPH88	1	L	G	1,5	X	X	X	499-503	4042-SW02	01/22/01/1140	MBQW88	KC	—
BNR60	5	L	G	5	X	X	X	1-6	4042-S01	01/22/01/1430	MBQA99	KC	MS/MSD
BNR95	5	L	G	5	X	X	X	211-215	4042-SS01	01/22/01/1420	MBQB34	KC	—

Shipment for Case Complete? (Y/N) Y

Page 1 of 6

VOA MS/MSD Required? (Y)/N Sample #: BNR60, see pg 2,5
BNA MS/MSD Required? (Y)/N Sample #: BNR60; see pg 2,5
Pest/PCB MS/MSD Required? (Y)/N Sample #: BNR60; see pg 2,5

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/22/01				
[signature]	1/22/01 2000				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)

CLASS-99-001

3882 3

Orig. #3

United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644438
2. Region No.:
Sampling Co.:
4. Date Shipped: 01-22-01
Carrier: FedEx
Account Code:
Sampler (Name): Kelley Curran
Airbill Number: 8183 6687 8807
Site Name: Diamond Aerosol Corp. JIC
Sampler Signature: Kelley Curran
5. Ship To: Liberty Analytical, 501 Madison Avenue, Cary, NC 27513, ATTN: Alice Evans
City, State: Glenbardner NJ
Site Spill ID: 22
Op Unit:

3. Purpose**
Lead: [X] SF [ ] PRP [ ] ST [ ] FED [ ] BZ
Early Action: [ ] IA [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI
Long-Term Action: [ ] RIFS [ ] RD [ ] RA [ ] O&M

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. PE-water
7. PE-soil
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. CH3OH
7. Other (specify in Column D)
N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Field Spike, D = Field Duplicate, R = Rinsate, PE = Perform Eval.)
BPH89	1	L	G	1,5	X	X	X	505-509	4042-SW03	01/22/01/1140	MBQW89	KC	D
BNR96	5	L	G	5	X	X	X	217-221	4042-SS02	01/22/01/1240	MBQB35	KC	—
BNR62	5	L	G	5	X	X	X	13-17	4042-SD03	01/22/01/1220	MBQB01	KC	—
~~BPH78~~	~~5~~	~~L~~	~~G~~	~~5~~	~~X~~	~~X~~	~~X~~	~~427-431~~	~~4042-SD02~~	~~01/22/01/1145~~	~~MBQB70~~	~~KC~~	— (KC)
BPH79	5	L	G	5	X	X	X	433-437	4042-SD03	01/22/01/1145	MBQB71	KC	D
BPH94	1	L	G	1,5	X	X	X	535-539	4042-SW08	01/22/01/1420	MBQW94	KC	—
BPH90	1	L	G	1,5	X	X	X	511-515	4042-SW04	01/22/01/1410	MBQW90	KC	—
~~BPH85~~	~~5~~	~~L~~	~~G~~	~~5~~	~~X~~	~~X~~	~~X~~	~~469-473~~	~~4042-SD09~~	~~01/22/01/1505~~	~~MBQW85~~	~~KC~~	— (KC)
													(HA)

Shipment for Case Complete? (Y/N) N
Page 3 of 6
VOA MS/MSD Required? (Y)/N Sample #: See pgs. 2-3, 5
BNA MS/MSD Required? (Y)/N Sample #: " " , 5
Pest/PCB MS/MSD Required? (Y)/N Sample #: " " , 5
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/22/01				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/22/01 2000				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

EPA Form 9110-2 (2/99)

CLASS-99-001

United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644483	2. Region No.: 2	Sampling Co.: Weston	4. Date Shipped: 01-22-01
Carrier: FedEx			
Account Code:	Sampler (Name): Kelley Curran	Airbill Number: 8183 6687 8807	
Site Name: Diamond Aerosol Corp	Sampler Signature: Kelley Curran	5. Ship To: Liberty Analytical, 501 Madison Avenue, Cary, NC 27513	
City, State: Glen Gardner, NJ	Site Spill ID: ZZ	Op Unit:	ATTN: Alice Evans

3. Purpose**: Lead [X] SF [ ] PRP [ ] ST [ ] FED [ ] BZ; Early Action [ ] IA [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI; Long-Term Action [ ] RIFS [ ] RD [ ] RA [ ] O&M

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Field Spike D = Field Duplicate R = Rinsate PE = Perform Eval)
BPJ03	2	L	G	1,5	X	X	X	589-593; 595-599; 601-605	4042-GW07	01/22/01/1510	MBQXQ3	KC	MS/MSD
BPH63	5	L	G	5	X	X	X	337-341	4042-SS22	01/22/01/1515	MBQB55	KC	—
~~BPH65~~	5	L	G	1,5	X	X	X	344-353	4042-SS24	01/22/01/1525	~~MBQB57~~	KC	—
BPH60	5	L	G	5	X	X	X	319-323	4042-SS19	01/22/01/1615	MBQB52	KC	—

Shipment for Case Complete? (Y/N) —

Page 5 of 6

VOA MS/MSD Required? (Y)/N Sample #: BPJ03; see pgs. 1, 2
BNA MS/MSD Required? (Y)/N Sample #: BPJ03; " "
Pest/PCB MS/MSD Required? (Y)/N Sample #: BPJ03; " "

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/22/01				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	1/22/2000				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)

CLASS-99-001

388 5

EPA United States Environmental Protection Agency Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 28924

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		2	Weston	1-22-01	FedEx

Regional Information: NJD049644438

Sampler (Name): Kelley Curran

Airbill Number: 8183 6687 8760

Non-Superfund Program

Sampler Signature: Kelley Curran

5. Ship To: Sentinel, Inc, 116 Washington Street, NE, Huntsville, AL 35801, ATTN: Kimberly Hayes

Site Name: Diamond Aerosol Corp.

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

City, State: Glen Gardner, NJ

Site Spill ID: ZZ

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., – = Not a QC Sample)
MBNM36	4	L	G	2,3,6		X	X					954, 1088	4042-RB01	1-22-01/0910	BPJ48	KC	R
MBQX03	2	L	G	2,3,6		X	X					588, 1027	4042-GW06	1-22-01/1020	BPJ02	KC	—
MBQW87	1	L	G	2,3,6		X	X					486, 492, 498, 1010–1012	4042-SW01	1-22-01/1040	BPH87	KC	MS/MSD
MBQB69	5	L	G	6		X	X					426	4042SD01	1-22-01/1105	BPH77	KC	MS/MSD
MBQW88	1	L	G	2,3,6		X	X					504, 1013	4042-SW03	1-22-01/1140	BPH88	KC	—
MBQW89	1	L	G	2,3,6		X	X					510, 1014	4042-SW03	1-22-01/1140	BPH89	KC	D
MBQA99	5	L	G	6		X	X					7	4042-S01	1-22-01/1430	BNR60	KC	MS/MSD

Shipment for Case Complete? (Y/N): N

Page 1 of 2 (3)

Sample(s) to be Used for Laboratory QC: MBQW87, MBQB69, MBQA99 (see pg 3)

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/22/01 2000				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/22/01 2000				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

3828_1

Inorganic #2

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 28924

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		2	Weston	1-22-01	FedEx

Regional Information: NJD049644438

Sampler (Name): Kelley Curran

Airbill Number: 8183 6687 8760

Non-Superfund Program

Sampler Signature: Kelley Curran

5. Ship To: Sentinel, Inc
116 Washington Street, NE
Huntsville, AL 35801
ATTN: Kimberly Hayes

Site Name: Diamond Aerosol Corp.

City, State: Glen Gardner, NJ

Site Spill ID: ZZ

3. Purpose*

Lead: [X] SF, [ ] PRP, [ ] ST, [ ] FED

Early Action: [ ] CLEM, [ ] PA, [ ] REM, [ ] RI, [ ] SI, [X] ESI

Long-Term Action: [ ] FS, [ ] RD, [ ] RA, [ ] O&M, [ ] NPLD

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
MBQB19	5	L	G	6		X	X					126	4042-S21	1/22/01 / 1650	BNR80	KC	—
MBQB22	5	L	G	6		X	X					144	4042-S24	1/22/01 / 1525	BNR83		—
MBQB36	5	L	G	6		X	X					228	4042-SS03	1/22/01 / 1210	BNR97		—
MBQB55	5	L	G	6		X	X					342	4042-SS22	1/22/01 / 1515	BPH63		—
MBQW90	1	L	G	2,3,6		X	X					516, 1015	4042-SW04	1/22/01 / 1410	BPH90		—
MBQW94	1	L	G	2,3,6		X	X					540, 1019	4042-SW08	1/22/01 / 1420	BPH94		—
MBQW95	1	L	G	2,3,6		X	X					546, 1020	4042-SW09	1/22/01 / 1455	BPH95		—
MBQW92	1	L	G	2,3,6		X	X					528, 1017	4042-SW06	1/22/01 / 1630	BPH92		—
MBQW91	1	L	G	2,3,6		X	X					522, 1016	4042-SW05	1/22/01 / 1600	BPH91		—
MBQX03	2	L	G	2,3,6		X	X					594, 600, 606, 1028-1030	4042-GW07	1/22/01 / 1510	BPJ03		MS/MSD

Shipment for Case Complete? (Y/N): N

Page 3 of 3 (HA)

Sample(s) to be Used for Laboratory QC: MBQX03, see pg. 1

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/22/01 2000				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/22/01 2000				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

3836_4

United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		2	Weston	1/23/01	FedEx

Regional Information: NJD 049644438

Sampler (Name): Kelley Curran

Airbill Number: 8183 6687 8792

Non-Superfund Program

Sampler Signature: Kelley Curran

5. Ship To: Liberty Analytical, 501 Madison Avenue, Cary, NC 27513
ATTN: Alice Evans

Site Name: Diamond Aerosol Corp.

City, State: Glen Gardner, NJ

Site Spill ID: ZZ

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
BPJ49	4	L	G	1,5	X	X	X		955-959	4042-RB02	1/23/01/1100	MBNN37	KC	B
BPJ50	4	L	G	1,5	X	X	X		961-965	4042-RB03	1/23/01/1105	MBNM38	KC	B
BPJ00	2	L	G	1,5	X	X	X		571-575	4042-GW04	1/23/01/1235	MBQX00	KC	—
BNR66	5	L	G	5	X	X	X		37-41	4042-S07	1/23/01/1115	MBQB05	KC	—
BNS01	5	L	G	5	X	X	X		247-251	4042-SS07	1/23/01/1110	MBQB40	KC	—

HA

Shipment for Case Complete? (Y/N) N

Page 1 of 3

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures

Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/23/01 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/23/01 1730				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-15 REV

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CL

EPA Form 9110-2 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITION

3838

United States Environmental Protection Agency
Contract Laboratory Program

Organic Tra[illegible] Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644438
2. Region No.: 2
Sampling Co.: Weston
4. Date Shipped: 1/23/01
Carrier: FedEx

Account Code:
Sampler (Name): Kelly Curran
Airbill Number: 8183 6687 8792

Site Name: Diamond Aerosol Corp.
Sampler Signature: Kelly Curran
5. Ship To: Liberty Analytical, 501 Madison Avenue, Cary, NC 27513, ATTN: Alice Evans

City, State: Glen Gardner, NJ
Site Spill ID: ZZ
Op Unit:

3. Purpose**
Lead: [x] SF, [ ] PRP, [ ] ST, [ ] FED, [ ] BZ
Early Action: [ ] IA, [ ] PA, [ ] REM, [ ] RI, [ ] SI, [x] ESI
Long-Term Action: [ ] RIFS, [ ] RD, [ ] RA, [ ] O&M

6. Matrix (Enter in Column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Field QC, 5. Soil/Sediment, 6. PE-water, 7. PE-soil, 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl, 2. HNO3, 3. NaHSO4, 4. H2SO4, 5. Ice only, 6. CH3OH, 7. Other (specify in Column D), N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Field Spike, D = Field Duplicate, R = Rinsate, PE = Perform. Eval.)
BPJ06	2	L	G	1,5	X	X	X	619-623	4042-GW10	1/23/01 1505	MBQX06	KC	—
BPJ58	4	L	G	1,5	X			1004	4042-TB02	1/23/01 1100	N/A	KC	B
BNS00	5	L	G	5	X	X	X	241-245	4042-SS06	1/23/01 1515	MBQB39	KC	—
BPH52	5	L	G	5	X	X	X	271-275	4042-SS11	1/23/01 1540	MBQB44	KC	—
BPH53	5	L	G	5	X	X	X	277-281	4042-SS12	1/23/01 ~~1546~~ 1539	MBQB45	KC	—
BPH68	5	L	G	5	X	X	X	367-371	4042-SS27	1/23/01 1615	MBQB60	KC	—
BNR65	5	L	G	5	X	X	X	31-35	4042-SS06	1/23/01 1510	MBQB04	KC	—
BNR71	5	L	G	5	X	X	X	67-71	4042-SS12	1/23/01 1535	MBQB10	KC	—
BNR72	5	L	G	5	X	X	X	73-77	4042-SS13	1/23/01 1555	MBQB11	KC	—

Shipment for Case Complete? (Y/N): Y
Page 3 of 3
VOA MS/MSD Required? Y/N Sample #:
BNA MS/MSD Required? Y/N Sample #:
Pest/PCB MS/MSD Required? Y/N Sample #:
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/23/01 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/23/01 1730				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)
CLASS-99-001

United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 28924

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		2	Weston	1/23/01	FedEx

Regional Information	Sampler (Name)	Airbill Number
NJD049644438	Kelley Curran	8183 6687 8770

Non-Superfund Program	Sampler Signature	5. Ship To
	Kelley Curran	Sentinel, Inc 116 Washington Street NE Huntsville, AL 35801 ATTN: Kimberly Hayes

Site Name: Diamond Parosal Corp

City, State: Glen Gardner, NJ

Site Spill ID: 22

3. Purpose*
- Lead: [X] SF [ ] PRP [ ] ST [ ] FED
- Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI
- Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval, - = Not a QC Sample)
MBQW96	1	L	G	2,3,6		X	X					553, 1021	4042-SW11	1/23/01/1205	BPH96	KC	—
MBQW45 (0350)	5	L	G	6		X	X					318	4042-SS18	1/23/01/1235	BPH59	KC	—
MBQW93	1	L	G	2,3,6		X	X					534, 1018	4042-SW07	1/23/01/1230	BPH93	KC	—
MBQX06	2	L	G	2,3,6		X	X					624, 1033	4042-GW10	1/23/01/1525	BPJ06	KC	—
MBQB04	5	L	G	6		X	X					36	4042-SO6	1/23/01/1510	BNR65	KC	—
MBQB11	5	L	G	6		X	X					78	4042-S13	1/23/01/1555	BNR72	KC	—
MBQB45	5	L	G	6		X	X					282	4042-SS12	1/23/01/1540 (1600)	BPH53	KC	—
MBQB44	5	L	G	6		X	X					276	4042-SS11	1/23/01/1540	BPH52	KC	—
MBQB40 (0339)	5	L	G	6		X	X					246	4042-SS06	1/23/01/1515	BNS00	KC	—
MBQB10	5	L	G	6		X	X					72	4042-S12	1/23/01/1535	BNR71	KC	—

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	2 of 3			

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/23/01 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/23/01 1730				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

3836_3

United States Environmental Protection Agency
Contract Laboratory Program

Organic Tra[illegible] Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644438
2. Region No.: 2
Sampling Co.: Weston
4. Date Shipped: 1/24/01
Carrier: FedEx
Account Code:
Sampler (Name): Kelley Curran
Airbill Number: 8183 6687 8715 ~~8742~~ (KC)
Site Name: Diamond Aerosol Corp.
Sampler Signature: Kelley Curran
5. Ship To: Liberty Analytical, 501 Madison Avenue, Cary, NC 27513, ATTN: Alice Evans
City, State: Glen Gardner, NJ
Site Spill ID: 22
Op Unit:

3. Purpose**: Lead: [X] SF, [ ] PRP, [ ] ST, [ ] FED, [ ] BZ; Early Action: [ ] IA, [ ] PA, [ ] REM, [ ] RI, [ ] SI, [X] ESI; Long-Term Action: [ ] RIFS, [ ] RD, [ ] RA, [ ] O&M

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) - N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Field Spike D = Field Duplicate R = Rinsate PE = Perform Eval.)
BPH97	2	L	G	1,5	X	X	X	553-557	4042-GW01	1/24/01/0950	MBQW97	KC	—
BNR75	5	L	G	5	X	X	X	91-95	4042-S16	1/24/01/0935	MBQB14	KC	—
BPH56	5	L	G	5	X	X	X	295-299	4042-SS15	1/24/01/0950	MBQB48	KC	—
BNR74	5	L	G	5	X	X	X	85-89	4042-S15	1/24/01/1005	MBQB13	KC	—
BNR73	5	L	G	5	X	X	X	79-83	4042-S14	1/24/01/1050	MBQB12		MS/MSD
BPH55	5	L	G	5	X	X	X	289-293	4042-SS14	1/24/01/1025	MBQB47		—
BPH54	5	L	G	5	X	X	X	283-287	4042-SS13	1/24/01/1105	MBQB46		—
BPH70	5	L	G	5	X	X	X	379-383	4042-SS29	1/24/01/1155	MBQB63		—
BPJ51	4	L	G	1,5	X	X	X	967-971	4042-RQ4	1/24/01/1050	MBNM39		(KC) BK
BPH69	5	L	G	5	X	X	X	373-377	4042-SS28	1/24/01/1225	MBQB61		—

Shipment for Case Complete? (Y/N) Y
Page 4 of 3
VOA MS/MSD Required? (Y)/N Sample #: BNR73
BNA MS/MSD Required? (Y)/N Sample #: BNR73
Pest/PCB MS/MSD Required? (Y)/N Sample #: BNR73
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/24/01 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	1/24/01 1730				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)
CLASS-99-001

3875 4

United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		2	Weston	1/24/01	FedEx

Regional Information: NJD049644438
Sampler (Name): Kelley Curran
Airbill Number: 8183 6687 8715
Non-Superfund Program
Sampler Signature: Kelley Curran
5. Ship To: Liberty Analytical, 501 Madison Avenue, Cary, NC 27513
ATTN: Alice Evans
Site Name: Diamond Aerosol Corp.
City, State: Glen Gardner, NJ
Site Spill ID: ZZ

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only / ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
BPH58 (LC) BNR77	5	L	G	5	X	X	X		~~103-107~~ 307-311 (LC)	4042-SS17	1/24/01 (LC) 1445	~~MBQB50~~ ~~MBQB46~~ (LC)	KC	—
BNR77	5	L	G	5	X	X	X		103-107	4042-S18	1/24/01	1440		—
BNR63	5	L	G	5	X	X	X		19-23	4042-S04	1/24/01	1520	MBQB02	—
BNR98	5	L	G	5	X	X	X		229-233	4042-SS04	1/24/01	1530	MBQB37	—
BNR64	5	L	G	5	X	X	X		25-29	4042-S05	1/24/01	1545	MBQB03	—
BNR99	5	L	G	5	X	X	X		235-239	4042-SS05	1/24/01	1555	MBQB38	—
BPJ04	2	L	G	1,5	X	X	X		607-611	4042-GW08	1/24/01	1615	MBQX04	—
BPJ59	4	L	G	1,5	X				1005	4042-TB03	1/24/01	0910	NA	B

(LC)

Shipment for Case Complete? (Y/N): Y
Page 3 of 3
Sample(s) to be Used for Laboratory QC: See pg 1
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/24/01 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/24/01 1730				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CL

EPA Form 9110-2 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIO

A21-012-15 REV

3838.1

EPA United States Environmental Protection Agency Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 28924

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		2	Weston	1/24/01	FedEx

Regional Information: NJD049644438

Sampler (Name): Kelly Curran

Airbill Number: 8183 6687 8748

Non-Superfund Program

Sampler Signature: Kelly Curran

5. Ship To: Sentinel Inc. 1116 Washington Street, NE Huntsville, AL 35801 ATTN: Kimberly Hayes

Site Name: DiAmond Aerosol Corp

City, State: Glen Gardner, NJ

Site Spill ID: ZZ

3. Purpose*

Lead: [X] SF [ ] PRP [ ] ST [ ] FED

Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI

Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval -- = Not a QC Sample)
MBQW98	2	L	G	2,3,6		X	X					564, 1023	4042-GW02	1/24/01 1155	BPH98	KC	—
MBQW99	2	L	G	2,3,6		X	X					570, 1024	4042-GW03	1/24/01 1155	BPH99	KC	D
MBQB23	5	L	G	6		X	X					150	4042-S25	1/24/01 1310	BNR84	KC	—
MBQB27	5	L	G	6		X	X					174	4042-S29	1/24/01 1415	BNR88	KC	—
MBQB58	5	L	G	6		X	X					360	4042-SS25	1/24/01 1425	BPH66	KC	—
MBQW05	2	L	G	2,3,6		X	X					618, 1032	4042-GW09	1/24/01 1445	BPJ05	KC	—
MBQB50	5	L	G	6		X	X					312	4042-SS17	1/24/01 1445	BPH58	KC	—
MBQB16	5	L	G	6		X	X					108	4042-S18	1/24/01 1440	BNR77	KC	—
MBQB02	5	L	G	6		X	X					24	4042-S04	1/24/01 1520	BNR63	KC	—
MBQB31	5	L	G	6		X	X					234	4042-SS04	1/24/01 1530	BNR98	KC	—

Shipment for Case Complete? (Y/N): Y

Page 2 of 3

Sample(s) to be Used for Laboratory QC: See pg 1

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelly Curran	1/24/01 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/24/01 1730				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

3825-3

United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644438	2. Region No.: 2	Sampling Co.: Weston	4. Date Shipped: 1/25/01
Carrier: FedEx			
Account Code:	Sampler (Name): Kelley Curran	Airbill Number: 8183 6687 8704	
Site Name: Diamond Aerosol Corp.	Sampler Signature: Kelley Curran	5. Ship To: Liberty Analytical, 501 Madison Avenue, Cary, NC 27513, ATTN: Alice Evans	
City, State: Glen Gardner, NJ	Site Spill ID: 22	Op Unit:	

3. Purpose**: Lead [X] SF, [ ] PRP, [ ] ST, [ ] FED, [ ] BZ; Early Action [ ] IA, [ ] PA, [ ] REM, [ ] RI, [ ] SI, [X] ESI; Long-Term Action [ ] RIFS, [ ] RD, [ ] RA, [ ] O&M

6. Matrix (Enter in Column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Field QC, 5. Soil/Sediment, 6. PE-water, 7. PE-soil, 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl, 2. HNO3, 3. NaHSO4, 4. H2SO4, 5. Ice only, 6. CH3OH, 7. Other (specify in Column D), N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D. Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Field Spike, D = Field Duplicate, R = Rinsate, PE = Perform Eval)
BPJ52	4	L	G	1,5	X	X	X	973-977	4042 - RB05	1/25/01/0915	MBNM40	KC	R
BPJ53	4	L	G	1,5	X	X	X	979-983	4042 - RB06	1/25/01/0935	MBNM41	KC	R
BPH62	5	L	G	5	X	X	X	331-335	4042 - SS21	1/25/01/1105	MBQB54	KC	—
~~BPH51~~	5	L	G	5	X	X	X	~~265~~ 133-137	4042 - S23	1/25/01/1055	MBQB21	KC	D
BNR81	5	L	G	5	X	X	X	127-131	4042 - S22	1/25/01/1055	MBQB20	KC	—
BNR70	5	L	G	5	X	X	X	61-65	4042 - S11	1/25/01/1055	MBQB09	KC	—
BPH51	5	L	G	5	X	X	X	265-269	4042 - SS10	1/25/01/1130	MBQB13	KC	—
BNR90	5	L	G	5	X	X	X	181-185	4042 - S31	1/25/01/1215	MBQB29	KC	—
BPH71	5	L	G	5	X	X	X	385-389	4042 - SS30	1/25/01/1225	MBQB63	KC	—
													KC

Shipment for Case Complete? (Y/N): Y

Page 1 of 2

VOA MS/MSD Required? Y/N Sample #:
BNA MS/MSD Required? Y/N Sample #:
Pest/PCB MS/MSD Required? Y/N Sample #:

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/25/01 1500				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	1/25/01 1560				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

Form 9110-2 (2/99)

CLASS-99-001

Inorganic #1

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 28924

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		2	Weston	1/25/01	FedEx

Regional Information: NJ D049644438

Sampler (Name): Kelley Curran

Airbill Number: 8183 6687 8781

Non-Superfund Program

Sampler Signature: Kelley Curran

5. Ship To: Sentinel, Inc, 116 Washington Street, NE, Huntsville, AL 35801, ATTN: Kimberly Hayes

Site Name: Diamond Aerosol Corp.

City, State: Glen Cove, NJ

Site Spill ID: ZZ

3. Purpose*: Lead [X] SF, [ ] PRP, [ ] ST, [ ] FED; Early Action [ ] CLEM, [ ] PA, [ ] REM, [ ] RI, [ ] SI, [X] ESI; Long-Term Action [ ] FS, [ ] RD, [ ] RA, [ ] O&M, [ ] NPLD

6. Matrix (Enter in Column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Field QC, 5. Soil/Sediment, 6. Oil (High only), 7. Waste (High only), 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl, 2. HNO3, 3. NaOH, 4. H_2SO_4, 5. $K_2CR_2O_7$, 6. Ice only, 7. Other (specify in Column D), N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) / Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier (KC) ~~4 RB05~~	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval, — = Not a QC Sample)
MBNM40	4	L	G	2,3,6		X	X					978, 1092	4042-RB04	1/25/01/0935	BPJ52	KC	R
MBNM41	4	L	G	2,3,6		X	X					984, 1093	4042-RB06	1/25/01/0935	BPJ53	KC	R
MBQB54	5	L	G	6		X	X					336	4042-SS21	1/25/01/1105	BPH62		—
MBQB21	5	L	G	6		X	X					138	4042-S23	1/25/01/1055	BNR82		D
MBQB20	5	L	G	6		X	X					132	4042-S22	1/25/01/1055	BNR81		—
MBQB09	5	L	G	6		X	X					66	4042-S11	1/25/01/1055	BNR70		—
MBQB43	5	L	G	6		X	X					270	4042-SS10	1/25/01/1130	BPH51		—
MBQB29	5	L	G	6		X	X					186	4042-S31	1/25/01/1215	BNR90		—
MBQB63	5	L	G	6		X	X					390	4042-SS30	1/25/01/1205	BPH71		—
MBQB08	5	L	G	6		X	X					60	4042-S10	1/25/01/1205	BNR69		—

Shipment for Case Complete? (Y/N): N

Page 1 of 2

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/25/01 1500				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/25/01 1500				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

3825

43

United States Environmental Protection Agency
Contract Laboratory Program

Organic Trace Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644438	2. Region No.: 2	Sampling Co.: Weston	4. Date Shipped: 1/29/01
Carrier: FedEx			
Account Code:	Sampler (Name): Kelley Curran	Airbill Number: 8183 6687 8830	
Site Name: Diamond Aerosol Corp.	Sampler Signature: Kelley Curran	5. Ship To: Mitkem Corporation, 175 Metro Center Boulevard, Warwick, RI 02886	
City, State: Glen Gardner, NJ	Site Spill ID: ZZ	Op Unit:	3. Purpose** Lead: [X] SF [ ] PRP [ ] ST [ ] FED [ ] BZ; Early Action: [ ] IA [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI; Long-Term Action: [ ] RIFS [ ] RD [ ] RA [ ] O&M
		ATTN: Agnes Ng	

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier ~~DW01~~	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Field Spike D = Field Duplicate R = Rinsate PE = Perform Eval.)
BPJ08	2	L	G	1,5	X	X	X	631-635	4042-DW01	1/29/01/1140	MBQX08	KC	—
BPJ11	2	L	G	1,5	X	X	X	649-653	4042-DW04	1/29/01/1150	MBQX11	KC	—
BPJ12	2	L	G	1,5	X	X	X	655-659	4042-DW05	1/29/01/1200	MBQX12	KC	D

KC

Shipment for Case Complete? (Y/N): N

Page 1 of 6

VOA MS/MSD Required? (Y/N) Sample #: See pg. 3
BNA MS/MSD Required? (Y/N) Sample #: See pg. 3
Pest/PCB MS/MSD Required? (Y/N) Sample #: See pg. 3

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/29/01 1930				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/29/01 1930				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)

CLASS-99-001

388_21

45

United States Environmental Protection Agency
Contract Laboratory Program

Organic Trafficking Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644438
2. Region No.: 2
Sampling Co.: Weston
4. Date Shipped: 1/29/01
Carrier: FedEx
Account Code:
Sampler (Name): Kelley Curran
Airbill Number: 8183 6687 8830
Site Name: Diamond Aerosol Corp.
Sampler Signature: Kelley Curran
5. Ship To: Mitten Corporation, 175 Metro Center Boulevard, Warwick, RI 02886
ATTN: Agnes Ng
City, State: Glen Gardner, NJ
Site Spill ID: 22
Op Unit:

3. Purpose**
Lead: [X] SF [ ] PRP [ ] ST [ ] FED [ ] BZ
Early Action: [ ] IA [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI
Long-Term Action: [ ] RIFS [ ] RD [ ] RA [ ] O&M

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. PE-water
7. PE-soil
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. CH3OH
7. Other (specify in Column D)
N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Field Spike D = Field Duplicate R = Rinsate PE = Perform Eval.)
BPJ17	2	L	6	1,5	X	X	X	685-689, 691-695, 697	701 4042-DW10	1/29/01 1435	MBOX17	KC	MS/MSD

Shipment for Case Complete? (Y/N): Y
Page 3 of 6

VOA MS/MSD Required? (Y/N): Y Sample #: BPJ17
BNA MS/MSD Required? (Y/N): Y Sample #: BPJ17
Pest/PCB MS/MSD Required? (Y/N): Y Sample #: BPJ17

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/29/01 1930				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/29/01 1930				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)

CLASS-99-001

388_3

United States Environmental Protection Agency
Contract Laboratory Program

Organic Tra[illegible] Report & Chain of Custody Record

(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644438	2. Region No.: 2	Sampling Co.: Weston	4. Date Shipped: 1/30/01 (1/29/01)
Carrier: FEDEX			
Account Code:	Sampler (Name): Kelley Curran		Airbill Number: 8183 6687 8830
Site Name: Diamond Aerosol Corp	Sampler Signature: Kelley Curran		5. Ship To: Mitkem Corporation, 175 Metro Center Boulevard, Warwick, RI 02886 ATTN: Agnes Pg
City, State: Glen Gardner, NJ	Site Spill ID: ZZ	Op Unit:	

3. Purpose**
- Lead: [X] SF, [ ] PRP, [ ] ST, [ ] FED, [ ] BZ
- Early Action: [ ] IA, [ ] PA, [ ] REM, [ ] RI, [ ] SI, [X] ESI
- Long-Term Action: [ ] RIFS, [ ] RD, [ ] RA, [ ] O&M

6. Matrix (Enter in Column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Field QC, 5. Soil/Sediment, 6. PE-water, 7. PE-soil, 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl, 2. HNO3, 3. NaHSO4, 4. H2SO4, 5. Ice only, 6. CH3OH, 7. Other (specify in Column D), N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Field Spike, D = Field Duplicate, R = Rinsate, PE = Perform Eval.)
BPJ18	2	L	G	1,5	X	X	X	703-707	4042-DW11	1/29/01 1525	MBQX18	KC	—
BPJ19	2	L	G	1,5	X	X	X	709-713	4042-DW12	1/29/01 1550	MBQX19	KC	—
BPJ21	2	L	G	1,5	X	X	X	721-725	4042-DW14	1/29/01 1650	MBQX21	KC	—
BPJ60	4	L	G	1,5	X			1006	4042-TB04	1/29/01 1030	NA	KC	B
													(KC)

Shipment for Case Complete? (Y/N): Y
Page 5 of 6

VOA MS/MSD Required? (Y)/N Sample #: See pg 3
BNA MS/MSD Required? (Y)/N Sample #: See pg 3
Pest/PCB MS/MSD Required? (Y)/N Sample #: See pg 3

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/30/01 (1/29/01) 1930				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	1/29/01 1930				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)

CLASS-99-001

United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 28924

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		2	Weston	1/30/01	FedEx

Regional Information: NJD049644438

Sampler (Name): Kelley Curran

Airbill Number: 8205 6852 2285

Non-Superfund Program

Sampler Signature: Kelley Curran

5. Ship To: Sentinel Inc. 116 Washington Street, NE Huntsville, AL 35801 ATTN: Kimberly Hayes

Site Name: Diamond Aerosol Corp.

City, State: Glen Gardner NJ

Site Spill ID: 22

3. Purpose*

Lead		Early Action	Long-Term Action
[X] SF		[ ] CLEM	[ ] FS
[ ] PRP		[ ] PA	[ ] RD
[ ] ST		[ ] REM	[ ] RA
[ ] FED		[ ] RI	[ ] O&M
		[ ] SI	[ ] NPLD
		[X] ESI	

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B - Blank S - Spike D - Duplicate R - Rinsate PE - Perform. Eval — - Not a QC Sample)
MBQX08	2	L	G	2,3,6		X	X					636, 1035	4042-DW01	1/29/01 1140	BPJ08	KC	—
MBQX11	2	L	G	2,3,6		X	X					654, 1038	4042-DW04	1/29/01 1150	BPJ11	KC	—
MBQX12	2	L	G	2,3,6		X	X					(c) ~~655~~ 660, 1039	4042-DW05	1/29/01 1200	BPJ12	KC	D
MBQX13	2	L	G	2,3,6		X	X					666, 1040	4042-DW06	1/29/01 1235	BPJ13	KC	—
MBQX09	2	L	G	2,3,6		X	X					642, 1036	4042-DW02	1/29/01 1215	BPJ09	KC	—
MBQX10	2	L	G	2,3,6		X	X					648, 1037	4042-DW03	1/29/01 1250	BPJ10	KC	—
MBQX17	2	L	G	2,3,6		X	X					690, 696, 702, (c) 1044-1046	4042-DW10	1/29/01 1435	BPJ17	KC	MS/MSD

Shipment for Case Complete? (Y/N) Y

Page 1 of 2

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures

Chain of Custody Seal Number(s) NC

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/29/01 1930				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/29/01 1930				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

3836 04

Volume #1

United States Environmental Protection Agency
Contract Laboratory Program

Organic Trai[illegible] Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644438	2. Region No.: 2	Sampling Co.: Weston	4. Date Shipped: 1/30/01 Carrier: FedEx
Account Code:	Sampler (Name): Kelley Curran		Airbill Number: 8183 6687 8737
Site Name: Diamond Aerosol Corp.	Sampler Signature: Kelley Curran		5. Ship To: Mitkem Corporation, 175 Metro Center Boulevard, Warwick, RI 02886
City, State: Glen Gardner NJ	Site Spill ID: ZZ	Op Unit:	ATTN: Agnes Ng

3. Purpose**: Lead [X] SF [ ] PRP [ ] ST [ ] FED [ ] BZ; Early Action [ ] IA [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI; Long-Term Action [ ] RIFS [ ] RD [ ] RA [ ] O&M

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. PE-water 7. PE-soil 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. CH3OH 7. Other (specify in Column D) N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 (14) 21 VOA	TA (circle one) PR* 7 (14) 21 BNA	TA (circle one) PR* 7 (14) 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Field Spike D = Field Duplicate R = Rinsate PE = Perform Eval.)
BPJ26	2	L	G	1,5	X	X	X	751-755	4042-DW19	1/30/01 1055	MBQX26	KC	—
BPJ22	2	L	G	1,5	X	X	X	727-731	4042-DW15	1/30/01 1110	MBQX22	KC	—
BPJ23	2	L	G	1,5	X	X	X	733-737	4042-DW16	1/30/01 1140	MBQX23	KC	—

KC

Shipment for Case Complete? (Y/N) Y

Page 1 of 4

VOA MS/MSD Required? Y/N Sample #:
BNA MS/MSD Required? Y/N Sample #:
Pest/PCB MS/MSD Required? Y/N Sample #:

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/30/01 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	1/30/01 1900				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

Form 9110-2 (2/99)

CLASS-99-001

3882 2

United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28924

1. Project Code: NJD049644438
2. Region No.: 2
Sampling Co.: Weston
4. Date Shipped: 1/30/01
Carrier: FedEx

Account Code:

Sampler (Name): Kelley Curran
Airbill Number: 8183 6687 8737

Site Name: Diamond Aerosol Corp

Sampler Signature: Kelley Curran
5. Ship To: Mitkem Corporation, 175 Metro Center Boulevard, Warwick, RI 02886
ATTN: Agnes Ng

City, State: Glen Gardner, NJ
Site Spill ID: 22
Op Unit:

3. Purpose**
Lead: [X] SF, [ ] PRP, [ ] ST, [ ] FED, [ ] BZ
Early Action: [ ] IA, [ ] PA, [ ] REM, [ ] RI, [ ] SI, [X] ESI
Long-Term Action: [ ] RIFS, [ ] RD, [ ] RA, [ ] O&M

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. PE-water
7. PE-soil
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. CH3OH
7. Other (specify in Column D)
N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Field Spike, D = Field Duplicate, R = Rinsate, PE = Perform Eval)
BPJ31	2	L	G	1,5	X	X	X	781-785	4042-DW24	1/30/01/1420	MBQX31	KC	—
BPJ29	2	L	G	1,5	X	X	X	769-773	4042-DW22	1/30/01/1430	MBQX29	KC	—
BPJ32	2	L	G	1,5	X	X	X	787-791	4042-DW25	1/30/01/1450	MBQX32	KC	—

Shipment for Case Complete? (Y/N) Y
Page 3 of 4

VOA MS/MSD Required? Y/N Sample #:
BNA MS/MSD Required? Y/N Sample #:
Pest/PCB MS/MSD Required? Y/N Sample #:

Additional Sampler Signatures:

Chain of Custody Seal Number(s): KC

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/30/01 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	1/30/01 1900				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)
CLASS-99-001

388L.4

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 28924

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		2	Weston	1/30/01	FedEx

Regional Information: NJD049644438
Sampler (Name): Kelley Curran
Airbill Number: 8179 8724 5840
Non-Superfund Program
Sampler Signature: Kelley Curran
5. Ship To: Sentinel Inc, 116 Washington Street NE, Huntsville, AL 35801
ATTN: Kimberly Hayes
Site Name: Diamond Aerosol Corp
City, State: Glen Cardner NJ
Site Spill ID: 22

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
MBQX26	2	L	G	2,3,6		X	X					756, 1055	4042-DW19	1/30/01/1055	BPJ26	KC	—
MBQX27	2	L	G	2,3,6		X	X					762, 1056	4042-DW20	1/30/01/1155	BPJ27	KC	—
MBQX22	2	L	G	2,3,6		X	X					732, 1051	4042-DW15	1/30/01/1110	BPJ22	KC	—
MBQX23	2	L	G	2,3,6		X	X					738, 1052	4042-DW16	1/30/01/1140	BPJ23	KC	—
MBQX30	2	L	G	2,3,6		X	X					780, 1059	4042-DW23	1/30/01/1210	BPJ30	KC	—
MBQX28	2	L	G	2,3,6		X	X					768, 1057	4042-DW21	1/30/01/140	BPJ28	KC	—
MBQX31	2	L	G	2,3,6		X	X					786, 1060	4042-DW24	1/30/01/1420	BPJ31	KC	—
MBQX29	2	L	G	2,3,6		X	X					774, 1058	4042-DW22	1/30/01/1430	BPJ29	KC	—
MBQX32	2	L	G	2,3,6		X	X					792, 1061	4042-DW25	1/30/01/1450	BPJ32	KC	—

KC

Shipment for Case Complete? (Y/N) Y
Page 1 of 2
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	1/30/01 / 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	1/30/01 / 1900				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

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EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Tr[illegible] Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 28929

1. Project Code: NJDC49644438
2. Region No.: 2
Sampling Co.: Weston
4. Date Shipped: 2/1/01
Carrier: FedEx
Account Code:
Sampler (Name): Kelley Curran
Airbill Number: 8183 6687 ~~8737~~ 8818
Site Name: Diamond Aerosol Corp.
Sampler Signature: Kelley Curran
5. Ship To: Mitkem Corporation, 175 Metro Center Boulevard, Warwick, RI 02886, ATTN: Agnes Ng
City, State: Glen Garden, NJ 22
Site Spill ID:
Op Unit:

3. Purpose**
Lead: [X] SF [ ] PRP [ ] ST [ ] FED [ ] BZ
Early Action: [ ] IA [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI
Long-Term Action: [ ] RIFS [ ] RD [ ] RA [ ] O&M

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. PE-water
7. PE-soil
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. CH3OH
7. Other (specify in Column D)
N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Field Spike, D = Field Duplicate, R = Rinsate, PE = Perform Eval)
BPJ36	~~1~~ 2	L	G	1,5	X	X	X	811-815	4042-DW29	1/31/01/1055	MBNM24	KC	—
BPJ39	2	L	G	1,5	X	X	X	829-833	4042-DW32	1/31/01/110	MBNM27	KC	—
BPJ37	2	L	G	1,5	X	X	X	817-821	4042-DW30	1/31/01/1535	MBNM25	KC	—

Shipment for Case Complete? (Y/N): Y
Page 5 of 3
VOA MS/MSD Required? Y/N Sample #:
BNA MS/MSD Required? Y/N Sample #:
Pest/PCB MS/MSD Required? Y/N Sample #:
Additional Sampler Signatures:
Chain of Custody Seal Number(s): KC

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	2/1/01 1430				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	2/1/01 1430				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)

CLASS-99-001

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United States Environmental Protection Agency
Contract Laboratory Program

Organic Tr[illegible] Report & Chain of Custody Record

(For Organic CLP Analysis)

Case No: 28924

1. Project Code: NJD049644438	2. Region No.: 2	Sampling Co.: Weston	4. Date Shipped: 2/1/01
Carrier: FedEx	Account Code:	Sampler (Name): Kelley Curran	Airbill Number: 8183 6687 8818
Site Name: Diamond Alkaloid Corp	Sampler Signature: Kelley Curran	5. Ship To: Mitkem Corporation, 175 Metro Center Boulevard, Warwick RI 02886	
City, State: Glen Gardner NJ	Site Spill ID: ZZ	Op Unit:	ATTN: Agnes Ng

3. Purpose**: Lead: [X] SF, [ ] PRP, [ ] ST, [ ] FED, [ ] BZ; Early Action: [ ] IA, [ ] PA, [ ] REM, [ ] RI, [ ] SI, [X] ESI; Long-Term Action: [ ] RIFS, [ ] RD, [ ] RA, [ ] O&M

6. Matrix (Enter in Column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Field QC, 5. Soil/Sediment, 6. PE-water, 7. PE-soil, 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl, 2. HNO3, 3. NaHSO4, 4. H2SO4, 5. Ice only, 6. CH3OH, 7. Other (specify in Column D), N. Not Preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis: TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Field Spike, D = Field Duplicate, R = Rinsate, PE = Perform Eval.)
BPJ38	2	L	G	1,5	X	X	X	823-827	4042-DW31	1/31/01 1740	MBNM26	KC	—
BPJ43	2	L	G	1,5	X	X	X	853-857	4042-DW36	2/1/01 1040	MBNM31	KC	—
BPJ44	2	L	G	1,5	X	X	X	859-863	4042-DW37	2/1/01 1225	MBNM32	KC	—
BPJ63	24	L	G	1,5	X			1009	4042-TB07	2/1/01 1010	NA	KC	B

KC

Shipment for Case Complete? (Y/N)	Page 3 of 3	VOA MS/MSD Required? Y/N Sample #:	Additional Sampler Signatures
		BNA MS/MSD Required? Y/N Sample #:	Chain of Custody Seal Number(s)
		Pest/PCB MS/MSD Required? Y/N Sample #:	

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kelley Curran	2/1/01 1430				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	2/1/01 1430				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

EPA Form 9110-2 (2/99)

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