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HALEY & ALDRICH

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

TECHNICAL MEMORANDUM

IMPORT SOIL EVALUATION
USE OF SOIL SOURCE FF AS IMPORT TO PARCEL C

To: **Mr. Brian Mossman**
Boeing Realty Corporation
3855 Lakewood Blvd.
Building 1A MC D001-0097
Long Beach, CA 90846

From: **Haley & Aldrich, Inc.**

Date: **April 18, 2002**

Re: **Import Soil Evaluation, Use of Soil Source FF as Import to Parcel C, Boeing Realty Corporation, Former C-6 Facility – Parcel C, Los Angeles, California**

Haley & Aldrich, Inc. is herein providing this technical memorandum to summarize our recommendations regarding the use of an identified potential soil source, herein referred to as Source FF, as import to Parcel C of the Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California (subject parcel). Based on our review of the environmental information provided for the Source FF import soil, this soil may be used as fill soil on Parcel C.

OVERVIEW/PURPOSE

A source of soil (Source FF), up to approximately 40,000 cubic yards, has been identified as potential import soil for use on Parcel C. Haley & Aldrich, Inc. personnel collected four soil samples from approximately 40,000 cubic yards of in-place soil. The samples were tested in accordance with the protocol presented in the December 11, 2000 Import Soil Screening Program Plan prepared for Parcel C. This plan has been used as guidance to evaluate import soil from "offsite" sources. The criteria presented in the plan were then compared to the analytical results of the soil samples. The purpose of this technical memorandum is to present a summary of the evaluation of the Source FF soil and to provide recommendations for use as import for Parcel C.

LOCATION OF PROPOSED SOURCE FF IMPORT SOIL

The Source FF soil is located on and is native to the property located along the south side of Stocker Street, between Central and Melrose Avenues in a residential area of Glendale, California. This soil will be excavated to a depth of approximately 8 feet below ground surface (bgs) during site redevelopment for an apartment complex. The property was previously used for residential purposes.

COMPARISON OF ANALYTICAL RESULTS TO IMPORT SOIL GUIDANCE CRITERIA

The laboratory report for the soil samples collected from the subject potential source is presented as Appendix A. Each sample was tested for metals, and various organic chemicals, including total petroleum hydrocarbons (TPH), polynuclear aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs). A review of the laboratory results indicates that the PAH results (only detected in soil sample Source_FF_4_2) are within the site-specific import soil evaluation criteria presented in the December 11, 2000 Import Soil Screening Program Plan as listed in Table 1. VOCs and TPH were not detected in the four soil samples, and their detection limits are consistent with the soil import criteria.

Table 1. Summary of PAH Results and Associated Site-Specific and Southern California Import Soil Criteria

Sample Identification	Chemical	Reported Concentration (µg/kg)	Site-Specific Import Soil Criterion (µg/kg)
Source _FF_4_2	Bezno(a)anthracene	11	11,400
	Benzo(a)pyrene	27	1,140
	Benzo(b)fluoranthene	19	11,400
	Benzo(k)fluroanthene	10	11,400
	Dibenzo(a,h)anthracene	31	3,350
	Fluoranthene	27	6,970,000
	Indeno(1,2,3-cd)pyrene	19	14,700
	Pyrene	22	2,350,000

Metals results that are greater than either the site-specific or southern California background criteria are listed in Table 2. Beryllium, thallium, and vanadium results are greater than the site-specific criteria, but are within the reported southern California background literature value criteria. Only selenium is greater than the reported southern California background literature value criteria, and is identified in bold in Table 1. The remaining metals on the analyte list are within the import soil criteria.

Table 2. Summary of Metals Results Greater Than Site-Specific Import Soil Criteria and Associated Site-Specific and Southern California Import Soil Criteria

Sample Identification	Chemical	Reported Concentration (mg/kg)	Site-Specific Import Soil Criterion (mg/kg)	Maximum Regional (Southern California) Background Criterion (mg/kg)
Source _FF_1_4	Beryllium	0.50	< 0.5	1.2
	Selenium	**0.73**	**0.43**	**0.43**
Source_FF_2_4	**Selenium**	**0.58**	**0.43**	**0.43**
	Thallium	1.2	< 0.5	35
	Vanadium	42.1	38	84.8
Source_FF_3_8	**Selenium**	**0.54**	**0.43**	**0.43**
Source_FF_4_2	**Selenium**	**0.96**	**0.43**	**0.43**

BOE-C6-0180396

RECOMMENDATIONS FOR USE AS IMPORT SOIL

It is recommended that the subject approximately 40,000 cubic yards of soils comprising Source FF be used as fill soil on Parcel C. The reported soil concentrations for organic compounds are consistent with the site-specific criteria, and those for inorganic chemicals are consistent with the site-specific and/or southern California background criteria, with the exception of selenium. The relatively narrow range of the reported concentrations of selenium in the four soil samples tested suggest that these selenium concentrations are representative of background metals concentrations for the general geographic region from which these soils originated. In addition, the property from which the Source FF soils originates has not reportedly been used for industrial activities, and typical indicators of contamination (e.g., discoloration, odors) were neither present in the soil samples collected nor observed in the subject Source FF soils as they were being sampled. The concentrations of selenium are also consistent with sample results collected from other apparently non-impacted potential import soils identified in Los Angeles, California during the search for acceptable import soil for Parcel C. Thus, the reported concentration of selenium above the southern California background criterion is not considered to be a result of chemical contamination.

Sincerely yours,
HALEY & ALDRICH, INC.

Anita Broughton, CIH
Risk Assessment Task Manager

Scott Zachary
Project Manager

Attachments:

Appendix A Laboratory Report

BOE-C6-0180397

Appendix A

BOE-C6-0180398

APPENDIX A

LABORATORY REPORT

SEVERN TRENT SERVICES

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

February 27, 2002

STL LOT NUMBER: E2B220307
NELAP Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002-S56

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 220
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the four samples received under chain of custody by STL Los Angeles on February 22, 2002. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report. The PAHs by 8310 analysis was performed by Del Mar Analytical. See attached report for any related anomaly.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,

Diane Suzuki
Project Manager

CC: Project File

STL Los Angeles is a part of Severn Trent Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0180400

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 2/22/02	Chain of Custody Number: 050333
Address: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: E2B220307	Page 1 of 1
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact:	Lab Contact:	
Project Name and Location (State): C6 - LOS ANGELES	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 27285-001			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		8260	8015	6010	8310	Special Instructions/ Conditions of Receipt
SOURCE - FF - 1 - 4'	2/22/02	3:00				X		X							X	X	X	X	
SOURCE - FF - 2 - 4'	↓	3:15				X		X							X	X	X	X	
SOURCE - FF - 3 - 8'	↓	3:45				X		X							X	X	X	X	
SOURCE - FF - 4 - 2'	↓	4:00				X		X							X	X	X	X	

Matrix: Air, Aqueous, Sed., Soil. Containers & Preservatives: Unpres., H2SO4, HNOS, HCl, NaOH, ZnAc/NaOH.

Analysis (Attach list if more space is needed): 8260, 8015, 6010, 8310.

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify):

1. Relinquished By: J. L.	Date: 2/22/02	Time: 17:00	1. Received By: R. Coelho	Date: 2/22/02	Time: 17:00
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

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BOE-C6-0180401

SEVERN TRENT SERVICES

LOT NUMBER E2B220307

Nonconformance 05-02940 - PENDING

Affected Samples:
E2B220307 (1): SOURCE_FF_1_4
E2B220307 (2): SOURCE_FF_2_4
E2B220307 (3): SOURCE_FF_3_8
E2B220307 (4): SOURCE_FF_4_2

Affected Methods:
6010B, 7471A, 8015B, 8260B

Case Narrative:
The samples temp recorded upon receiving was 29.9 deg C. The cooler contained no ice. The samples were collected within 6 hours of receiving.

ACCREDITED IN ACCORDANCE WITH nelac

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 2/22/02

Quantims Lot #: E2B220307
Quote #: 42295
Client Name: Haley & Aldrich
Project: Boeing C-6
Received by: [signature]
Date/Time Received: 2/22/02 17:00
Delivered by : [X] Client [ ] Airborne [ ] Fed Ex [ ] DHL [ ] In-House Courier [ ] Rey B. [ ] UPS [ ] DES [ ] Other

****

Initial / Date

Custody Seal Status: [ ] Intact [ ] Broken [X] None ..... AR 2/22/02
Custody Seal #(s): [X] No Seal # .....
Sample Container(s): [X] STL-LA [ ] Client [ ] N/A .....
Temperature(s) (Cooler/blank) in °C: 30.0 Correction factor -0.1°C (Corrected Temp.) 29.9°C
Thermometer Used : ID: B [X] IR (Infra-red) [ ] Digital (Probe) .....
Samples: [X] Intact [ ] Broken [ ] Other .....
Anomalies: [ ] No [X] Yes (See Clouseau) ...7°.....
Labeled by .....
Labeling checked by .....

****

Turn Around Time: [ ] RUSH-24HR [X] RUSH-48HR [ ] RUSH-72HR [X] NORMAL .....
Short-Hold Notification: [ ] Ph [ ] Wet Chem [ ] Metals (Filter/Pres) [ ] Encore [X] N/A ...
Outside Analysis(es) (Test/Lab/Date Sent Out) :
8310 To Del Mar .....

********** LEAVE NO BLANK SPACES ; USE N/A **********

Fraction	1-74										PH
VOAh /*											N/A
4 oz CGJ	1										
8 oz CGJ	1										

h:HCl na:Sodium Hydoxide znna:Zinc Acetate/Sodium Hydroxide s: H2SO4 n:HNO3 n/f:HNO3-Field filtered n/f/l:HNO3-Lab filtered
CGJ:Clear Glass Jar CGB:Clear Glass Bottle AGJ:Amber Glass Jar AGB:Amber Glass Bottle PB: Poly Bottle E:Encore Sampler V:VOA SL:Sleeve
* Number of VOA's w/ Headspace present

LOGGED BY/DATE: [signature] 2/22/02 REVIEWED BY/DATE: [signature] 2-25-02

PRC Ver. 6 081401 KRF

QANACA01\H:\Precis\Sample Control Forms

000004

BOE-C6-0180403

STL Los Angeles
Condition Upon Receipt Anomaly Report (CUR)

Client: Haley & Aldrich
Date/Time 2/22/02 17:00
Lot No: E2B220307
Initiated by: NR

Affected samples
Chain of Custody #

Client ID	Lab ID	Analyses Requested
All – T° = 29.9°C – no ICE; collected and received within 6 hours from receiving time		

CONDITION/ANOMALY/VARIANCE (CHECK ALL THAT APPLY):

- COOLERS
  - ☐ Not Received, No (COC)
  - ☐ Not Received but COC (s) Available
  - ☐ Leaking
  - ☐ Other: _____
- CUSTODY SEALS (COOLER(S)/CONTAINER(S)
  - ☐ None
  - ☐ Not Intact
  - ☐ Other _____
- TEMPERATURE (SPECS 4 ± 2°C)
  - ☐ Cooler Temp(s) 29.9°C
  - ☐ Temperature Blank(s) —
- CHAIN OF CUSTODY (COC)
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other _____
- CONTAINERS
  - ☐ Leaking
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ VOA Vials with Headspace _____ mm
  - ☐ Other: _____
- CONTAINERS LABELS
  - ☐ Not the same ID/info as in COC * *
  - ☐ Incomplete Information
    - ☐ Preservative
    - ☐ Collection _____ Time _____ Date
  - ☐ Markings/Info illegible
  - ☐ Torn
  - ☐ Other _____
- SAMPLES
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE
  - ☐ Other _____
- ☐ Will be noted on COC--Client to send samples with new COC
- ☐ Mislabeled as to tests, preservatives, etc.
- ☐ Holding time expired
- ☐ Improper container used
- ☐ Not preserved/Improper preservative used
- ☐ Improper pH _____ Lab to preserve sample and document
- ☐ Insufficient quantities for analysis

Comments * * Sample #003, client ID: SOURCE-FF-3-8' is labeled on the container as SOURCE FF-3-6'
2/26 Client ~~[illegible]~~

Corrective Action Implemented:
- ☐ Client Informed: verbally on 2/26 By: [illegible] In writing on 2/26 By: [illegible]
- ☐ Sample(s) processed "as is."
- ☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: _____ Date: _____
Project Management Review: [signature] Date: 2/26/02

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN
TRENT
SERVICES

Analytical Report

000006

EXECUTIVE SUMMARY - Detection Highlights

E2B220307

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SOURCE_FF_1_4 02/22/02 15:00 001				
Mercury	0.048 B	0.10	mg/kg	SW846 7471A
Aluminum	11500	20.0	mg/kg	SW846 6010B
Arsenic	2.2	1.0	mg/kg	SW846 6010B
Barium	93.1	2.0	mg/kg	SW846 6010B
Chromium	10.7 J	1.0	mg/kg	SW846 6010B
Beryllium	0.50	0.50	mg/kg	SW846 6010B
Lead	3.4	0.50	mg/kg	SW846 6010B
Selenium	0.73	0.50	mg/kg	SW846 6010B
Cobalt	5.9	5.0	mg/kg	SW846 6010B
Copper	10.8	2.5	mg/kg	SW846 6010B
Nickel	6.3	4.0	mg/kg	SW846 6010B
Vanadium	35.0	5.0	mg/kg	SW846 6010B
Zinc	44.1	2.0	mg/kg	SW846 6010B
SOURCE_FF_2_4 02/22/02 15:15 002				
Mercury	0.052 B	0.10	mg/kg	SW846 7471A
Aluminum	14400	20.0	mg/kg	SW846 6010B
Arsenic	3.2	1.0	mg/kg	SW846 6010B
Barium	113	2.0	mg/kg	SW846 6010B
Chromium	11.3 J	1.0	mg/kg	SW846 6010B
Beryllium	0.47 B	0.50	mg/kg	SW846 6010B
Lead	3.5	0.50	mg/kg	SW846 6010B
Selenium	0.58	0.50	mg/kg	SW846 6010B
Cobalt	6.3	5.0	mg/kg	SW846 6010B
Copper	13.3	2.5	mg/kg	SW846 6010B
Molybdenum	0.50 B	4.0	mg/kg	SW846 6010B
Nickel	6.9	4.0	mg/kg	SW846 6010B
Thallium	1.2	1.0	mg/kg	SW846 6010B
Vanadium	42.1	5.0	mg/kg	SW846 6010B
Zinc	45.3	2.0	mg/kg	SW846 6010B
SOURCE_FF_3_8 02/22/02 15:45 003				
Mercury	0.027 B	0.10	mg/kg	SW846 7471A
Aluminum	7360	20.0	mg/kg	SW846 6010B
Arsenic	1.7	1.0	mg/kg	SW846 6010B
Barium	65.4	2.0	mg/kg	SW846 6010B
Chromium	7.7 J	1.0	mg/kg	SW846 6010B
Beryllium	0.24 B	0.50	mg/kg	SW846 6010B
Lead	2.8	0.50	mg/kg	SW846 6010B
Selenium	0.54	0.50	mg/kg	SW846 6010B
Cobalt	3.8 B	5.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E2B220307

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SOURCE_FF_3_8 02/22/02 15:45 003				
Copper	6.7	2.5	mg/kg	SW846 6010B
Molybdenum	0.30 B	4.0	mg/kg	SW846 6010B
Nickel	4.2	4.0	mg/kg	SW846 6010B
Vanadium	25.9	5.0	mg/kg	SW846 6010B
Zinc	26.3	2.0	mg/kg	SW846 6010B
SOURCE_FF_4_2 02/22/02 16:00 004				
Mercury	0.030 B	0.10	mg/kg	SW846 7471A
Aluminum	12400	20.0	mg/kg	SW846 6010B
Arsenic	2.1	1.0	mg/kg	SW846 6010B
Barium	112	2.0	mg/kg	SW846 6010B
Chromium	11.4 J	1.0	mg/kg	SW846 6010B
Beryllium	0.34 B	0.50	mg/kg	SW846 6010B
Lead	25.0	0.50	mg/kg	SW846 6010B
Selenium	0.96	0.50	mg/kg	SW846 6010B
Cobalt	5.5	5.0	mg/kg	SW846 6010B
Copper	17.4	2.5	mg/kg	SW846 6010B
Molybdenum	0.62 B	4.0	mg/kg	SW846 6010B
Nickel	6.1	4.0	mg/kg	SW846 6010B
Thallium	1.1	1.0	mg/kg	SW846 6010B
Vanadium	36.0	5.0	mg/kg	SW846 6010B
Zinc	53.2	2.0	mg/kg	SW846 6010B

METHODS SUMMARY

E2B220307

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E2B220307

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EVHWW	001	SOURCE_FF_1_4	02/22/02	15:00
EVHW5	002	SOURCE_FF_2_4	02/22/02	15:15
EVHW7	003	SOURCE_FF_3_8	02/22/02	15:45
EVHW8	004	SOURCE_FF_4_2	02/22/02	16:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_1_4

GC Semivolatiles

Lot-Sample #...:	E2B220307-001	Work Order #...:	EVHWW1AA	Matrix.....:	SOLID
Date Sampled...:	02/22/02 15:00	Date Received..:	02/22/02 17:00	MS Run #.....:	2053225
Prep Date.....:	02/22/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2053442	Analysis Time..:	16:09		
Dilution Factor:	1				
Analyst ID.....:	356074	Instrument ID..:	G03		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	ND	10	mg/kg	5.0
C24-C27	ND	10	mg/kg	5.0
C28-C31	ND	10	mg/kg	5.0
C32-C35	ND	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	ND	10	mg/kg	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	86	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_1_4

GC Volatiles

Lot-Sample #...:	E2B220307-001	Work Order #...:	EVHWW1AC	Matrix.....:	SOLID
Date Sampled...:	02/22/02 15:00	Date Received..:	02/22/02 17:00	MS Run #.....:	2058191
Prep Date.....:	02/25/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2058393	Analysis Time..:	12:48		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G16		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	73	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_1_4

GC/MS Volatiles

Lot-Sample #...: E2B220307-001 Work Order #...: EVHWW1AD Matrix.....: SOLID
Date Sampled...: 02/22/02 15:00 Date Received..: 02/22/02 17:00 MS Run #.....: 2057080
Prep Date.....: 02/25/02 Analysis Date..: 02/25/02
Prep Batch #...: 2057248 Analysis Time..: 11:23
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_1_4

GC/MS Volatiles

Lot-Sample #...: E2B220307-001 Work Order #...: EVHWW1AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(65 - 135)
1,2-Dichloroethane-d4	65	(60 - 140)
Toluene-d8	75	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_2_4

GC Semivolatiles

Lot-Sample #...: E2B220307-002 Work Order #...: EVHW51AD Matrix.....: SOLID
Date Sampled...: 02/22/02 15:15 Date Received..: 02/22/02 17:00 MS Run #.....: 2053225
Prep Date.....: 02/22/02 Analysis Date..: 02/25/02
Prep Batch #...: 2053442 Analysis Time..: 18:08
Dilution Factor: 1
Analyst ID.....: 356074 Instrument ID..: G03
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	ND	10	mg/kg	5.0
C24-C27	ND	10	mg/kg	5.0
C28-C31	ND	10	mg/kg	5.0
C32-C35	ND	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	ND	10	mg/kg	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	68	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_2_4

GC Volatiles

Lot-Sample #...:	E2B220307-002	Work Order #...:	EVHW51AE	Matrix.....:	SOLID
Date Sampled...:	02/22/02 15:15	Date Received..:	02/22/02 17:00	MS Run #.....:	2058191
Prep Date.....:	02/25/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2058393	Analysis Time..:	13:18		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G16		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	75	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_2_4

GC/MS Volatiles

Lot-Sample #...: E2B220307-002 Work Order #...: EVHW51AF Matrix.....: SOLID
Date Sampled...: 02/22/02 15:15 Date Received..: 02/22/02 17:00 MS Run #.....: 2057080
Prep Date.....: 02/25/02 Analysis Date..: 02/25/02
Prep Batch #...: 2057248 Analysis Time..: 11:53
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_2_4

GC/MS Volatiles

Lot-Sample #...: E2B220307-002 Work Order #...: EVHW51AF Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(65 - 135)
1,2-Dichloroethane-d4	68	(60 - 140)
Toluene-d8	79	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_3_8

GC Semivolatiles

Lot-Sample #...: E2B220307-003 Work Order #...: EVHW71AD Matrix.....: SOLID
Date Sampled...: 02/22/02 15:45 Date Received..: 02/22/02 17:00 MS Run #.....: 2053225
Prep Date.....: 02/22/02 Analysis Date..: 02/25/02
Prep Batch #...: 2053442 Analysis Time..: 18:47
Dilution Factor: 1
Analyst ID.....: 356074 Instrument ID..: G03
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	ND	10	mg/kg	5.0
C24-C27	ND	10	mg/kg	5.0
C28-C31	ND	10	mg/kg	5.0
C32-C35	ND	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	ND	10	mg/kg	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	66	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_3_8

GC Volatiles

Lot-Sample #...:	E2B220307-003	Work Order #...:	EVHW71AE	Matrix.....:	SOLID
Date Sampled...:	02/22/02 15:45	Date Received..:	02/22/02 17:00	MS Run #.....:	2058191
Prep Date.....:	02/25/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2058393	Analysis Time..:	13:47		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G16		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	76	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_3_8

GC/MS Volatiles

Lot-Sample #...: E2B220307-003 Work Order #...: EVHW71AF Matrix.....: SOLID
Date Sampled...: 02/22/02 15:45 Date Received..: 02/22/02 17:00 MS Run #.....: 2057080
Prep Date.....: 02/25/02 Analysis Date..: 02/25/02
Prep Batch #...: 2057248 Analysis Time..: 12:24
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_3_8

GC/MS Volatiles

Lot-Sample #...: E2B220307-003 Work Order #...: EVHW71AF Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(65 - 135)
1,2-Dichloroethane-d4	68	(60 - 140)
Toluene-d8	76	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_4_2

GC Semivolatiles

Lot-Sample #...:	E2B220307-004	Work Order #...:	EVHW81AD	Matrix.....:	SOLID
Date Sampled...:	02/22/02 16:00	Date Received..:	02/22/02 17:00	MS Run #.....:	2053225
Prep Date.....:	02/22/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2053442	Analysis Time..:	19:26		
Dilution Factor:	1				
Analyst ID.....:	356074	Instrument ID..:	G03		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	ND	10	mg/kg	5.0
C24-C27	ND	10	mg/kg	5.0
C28-C31	ND	10	mg/kg	5.0
C32-C35	ND	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	ND	10	mg/kg	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	84	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_4_2

GC Volatiles

Lot-Sample #...:	E2B220307-004	Work Order #...:	EVHW81AE	Matrix.....:	SOLID
Date Sampled...:	02/22/02 16:00	Date Received..:	02/22/02 17:00	MS Run #.....:	2058191
Prep Date.....:	02/25/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2058393	Analysis Time..:	14:16		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G16		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	78	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_4_2

GC/MS Volatiles

Lot-Sample #...: E2B220307-004 Work Order #...: EVHW81AF Matrix.....: SOLID
Date Sampled...: 02/22/02 16:00 Date Received..: 02/22/02 17:00 MS Run #.....: 2057080
Prep Date.....: 02/25/02 Analysis Date..: 02/25/02
Prep Batch #...: 2057248 Analysis Time..: 14:25
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_4_2

GC/MS Volatiles

Lot-Sample #...: E2B220307-004 Work Order #...: EVHW81AF Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(65 - 135)
1,2-Dichloroethane-d4	69	(60 - 140)
Toluene-d8	81	(70 - 130)

HALEY & ALDRICH INC

SOURCE_FF_1_4

GC/MS Volatiles

Lot-Sample #: E2B220307-001 Work Order #: EVHWW1AD Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown hydrocarbon		6.6	M	21.536	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

SOURCE_FF_2_4

GC/MS Volatiles

Lot-Sample #: E2B220307-002 Work Order #: EVHW51AF Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown hydrocarbon		7.2	M	21.535	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

SOURCE_FF_3_8

GC/MS Volatiles

Lot-Sample #: E2B220307-003 Work Order #: EVHW71AF Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

SOURCE_FF_4_2

GC/MS Volatiles

Lot-Sample #: E2B220307-004 Work Order #: EVHW81AF Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown hydrocarbon		6.1	M	21.537	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2B260000-248 B Work Order #: EVLEG1AA Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown hydrocarbon		7.2	M	21.796	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_1_4

TOTAL Metals

Lot-Sample #...: E2B220307-001 Matrix.....: SOLID
Date Sampled...: 02/22/02 15:00 Date Received..: 02/22/02 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2054107						
Aluminum	11500	20.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AF
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 8.0	
Arsenic	2.2	1.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AG
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AH
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.60	
Barium	93.1	2.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AJ
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AK
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.060	
Chromium	10.7 J	1.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AL
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Beryllium	0.50	0.50	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AM
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.050	
Lead	3.4	0.50	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AN
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Selenium	0.73	0.50	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AP
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_1_4

TOTAL Metals

Lot-Sample #...: E2B220307-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AQ
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Cobalt	5.9	5.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AR
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Copper	10.8	2.5	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AT
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AU
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Nickel	6.3	4.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AV
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AW
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.80	
Vanadium	35.0	5.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1AX
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Zinc	44.1	2.0	mg/kg	SW846 6010B	02/23-02/26/02	EVHWW1A0
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 1.0	

Prep Batch #...: 2054108

Mercury	0.048 B	0.10	mg/kg	SW846 7471A	02/25/02	EVHWW1A1
		Dilution Factor: 1		Analysis Time..: 14:31	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2054021	MDL.....: 0.020	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_2_4

TOTAL Metals

Lot-Sample #...: E2B220307-002 Matrix.....: SOLID
Date Sampled...: 02/22/02 15:15 Date Received..: 02/22/02 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2054107						
Aluminum	14400	20.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AH
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 8.0	
Arsenic	3.2	1.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AJ
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AK
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.60	
Barium	113	2.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AL
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AM
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.060	
Chromium	11.3 J	1.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AN
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Beryllium	0.47 B	0.50	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AP
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.050	
Lead	3.5	0.50	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AQ
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Selenium	0.58	0.50	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AR
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_2_4

TOTAL Metals

Lot-Sample #...: E2B220307-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AT
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Cobalt	6.3	5.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AU
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Copper	13.3	2.5	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AV
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	
Molybdenum	0.50 B	4.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AW
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Nickel	6.9	4.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AX
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Thallium	1.2	1.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51A0
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.80	
Vanadium	42.1	5.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51A1
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Zinc	45.3	2.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW51AA
		Dilution Factor: 1		Analysis Time..: 12:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 1.0	

Prep Batch #...: 2054108

Mercury	0.052 B	0.10	mg/kg	SW846 7471A	02/25/02	EVHW51AC
		Dilution Factor: 1		Analysis Time..: 14:37	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2054021	MDL.....: 0.020	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_3_8

TOTAL Metals

Lot-Sample #...: E2B220307-003 Matrix.....: SOLID
Date Sampled...: 02/22/02 15:45 Date Received..: 02/22/02 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2054107						
Aluminum	7360	20.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AH
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 8.0	
Arsenic	1.7	1.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AJ
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AK
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.60	
Barium	65.4	2.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AL
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AM
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.060	
Chromium	7.7 J	1.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AN
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Beryllium	0.24 B	0.50	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AP
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.050	
Lead	2.8	0.50	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AQ
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Selenium	0.54	0.50	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AR
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_3_8

TOTAL Metals

Lot-Sample #...: E2B220307-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AT
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Cobalt	3.8 B	5.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AU
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Copper	6.7	2.5	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AV
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	
Molybdenum	0.30 B	4.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AW
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Nickel	4.2	4.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AX
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71A0
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.80	
Vanadium	25.9	5.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71A1
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Zinc	26.3	2.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW71AA
		Dilution Factor: 1		Analysis Time..: 12:12	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 1.0	

Prep Batch #...: 2054108

Mercury	0.027 B	0.10	mg/kg	SW846 7471A	02/25/02	EVHW71AC
		Dilution Factor: 1		Analysis Time..: 14:39	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2054021	MDL.....: 0.020	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_4_2

TOTAL Metals

Lot-Sample #...: E2B220307-004 Matrix.....: SOLID
Date Sampled...: 02/22/02 16:00 Date Received..: 02/22/02 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2054107						
Aluminum	**12400**	**20.0**	**mg/kg**	**SW846 6010B**	**02/23-02/27/02**	**EVHW81AH**
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 8.0	
Arsenic	**2.1**	**1.0**	**mg/kg**	**SW846 6010B**	**02/23-02/27/02**	**EVHW81AJ**
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW81AK
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.60	
Barium	**112**	**2.0**	**mg/kg**	**SW846 6010B**	**02/23-02/27/02**	**EVHW81AL**
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/23-02/27/02	EVHW81AM
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.060	
Chromium	**11.4 J**	**1.0**	**mg/kg**	**SW846 6010B**	**02/23-02/27/02**	**EVHW81AN**
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Beryllium	**0.34 B**	**0.50**	**mg/kg**	**SW846 6010B**	**02/23-02/27/02**	**EVHW81AP**
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.050	
Lead	**25.0**	**0.50**	**mg/kg**	**SW846 6010B**	**02/23-02/27/02**	**EVHW81AQ**
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Selenium	**0.96**	**0.50**	**mg/kg**	**SW846 6010B**	**02/23-02/27/02**	**EVHW81AR**
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: SOURCE_FF_4_2

TOTAL Metals

Lot-Sample #...: E2B220307-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW81AT
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Cobalt	5.5	5.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW81AU
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Copper	17.4	2.5	mg/kg	SW846 6010B	02/23-02/27/02	EVHW81AV
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.40	
Molybdenum	0.62 B	4.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW81AW
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Nickel	6.1	4.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW81AX
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.30	
Thallium	1.1	1.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW81A0
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.80	
Vanadium	36.0	5.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW81A1
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 0.10	
Zinc	53.2	2.0	mg/kg	SW846 6010B	02/23-02/27/02	EVHW81AA
		Dilution Factor: 1		Analysis Time..: 12:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2054020	MDL.....: 1.0	

Prep Batch #...: 2054108

Mercury	0.030 B	0.10	mg/kg	SW846 7471A	02/25/02	EVHW81AC
		Dilution Factor: 1		Analysis Time..: 14:44	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2054021	MDL.....: 0.020	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

SEVERN
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QA/QC

000040

QC DATA ASSOCIATION SUMMARY

E2B220307

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		2053442	2053225
	SOLID	SW846 8015B		2058393	2058191
	SOLID	SW846 7471A		2054108	2054021
	SOLID	SW846 8260B		2057248	2057080
	SOLID	SW846 6010B		2054107	2054020
002	SOLID	SW846 8015B		2053442	2053225
	SOLID	SW846 8015B		2058393	2058191
	SOLID	SW846 7471A		2054108	2054021
	SOLID	SW846 8260B		2057248	2057080
	SOLID	SW846 6010B		2054107	2054020
003	SOLID	SW846 8015B		2053442	2053225
	SOLID	SW846 8015B		2058393	2058191
	SOLID	SW846 7471A		2054108	2054021
	SOLID	SW846 8260B		2057248	2057080
	SOLID	SW846 6010B		2054107	2054020
004	SOLID	SW846 8015B		2053442	2053225
	SOLID	SW846 8015B		2058393	2058191
	SOLID	SW846 7471A		2054108	2054021
	SOLID	SW846 8260B		2057248	2057080
	SOLID	SW846 6010B		2054107	2054020

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E2B220307
MB Lot-Sample #: E2B220000-442

Work Order #...: EVH2E1AA

Matrix.....: SOLID

Prep Date.....: 02/22/02

Analysis Time..: 14:10

Analysis Date..: 02/25/02

Prep Batch #...: 2053442

Instrument ID..: G03

Dilution Factor: 1

Analyst ID.....: 356074

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C8-C9	ND	10	mg/kg	SW846 8015B
C10-C11	ND	10	mg/kg	SW846 8015B
C12-C13	ND	10	mg/kg	SW846 8015B
C14-C15	ND	10	mg/kg	SW846 8015B
C16-C17	ND	10	mg/kg	SW846 8015B
C18-C19	ND	10	mg/kg	SW846 8015B
C20-C23	ND	10	mg/kg	SW846 8015B
C24-C27	ND	10	mg/kg	SW846 8015B
C28-C31	ND	10	mg/kg	SW846 8015B
C32-C35	ND	10	mg/kg	SW846 8015B
C36-C39	ND	10	mg/kg	SW846 8015B
C40+	ND	10	mg/kg	SW846 8015B
Total Carbon Chain Range	ND	10	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	89	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2B220307
MB Lot-Sample #: E2B260000-248

Work Order #...: EVLEG1AA

Matrix.....: SOLID

Prep Date.....: 02/25/02

Analysis Time..: 10:41

Analysis Date..: 02/25/02

Prep Batch #...: 2057248

Instrument ID..: MSD

Dilution Factor: 1

Analyst ID.....: 999998

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2B220307 Work Order #...: EVLEG1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(65 - 135)
1,2-Dichloroethane-d4	65	(60 - 140)
Toluene-d8	78	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E2B220307
MB Lot-Sample #: E2B270000-393

Work Order #...: EVNJF1AA

Matrix.....: SOLID

Prep Date.....: 02/25/02

Analysis Time..: 12:19

Analysis Date..: 02/25/02

Prep Batch #...: 2058393

Instrument ID..: G16

Dilution Factor: 1

Analyst ID.....: 001464

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C6-C8	ND	1.0	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	62	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E2B230000-107 Prep Batch #...: 2054107						
Aluminum	ND	20.0	mg/kg	SW846 6010B	02/23/02	EVJE11AA
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	02/23/02	EVJE11AC
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	02/23/02	EVJE11AD
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	02/23/02	EVJE11AE
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/23/02	EVJE11AF
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	0.12 B	1.0	mg/kg	SW846 6010B	02/23/02	EVJE11AG
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/23/02	EVJE11AH
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	02/23/02	EVJE11AJ
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	02/23/02	EVJE11AK
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	02/23/02	EVJE11AL
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/23/02	EVJE11AM
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	02/23/02	EVJE11AN
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	02/23/02	EVJE11AP
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	02/23/02	EVJE11AQ
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	02/23/02	EVJE11AR
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	02/23/02	EVJE11AT
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	02/23/02	EVJE11AU
		Dilution Factor: 1				
		Analysis Time..: 22:55		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E2B230000-108 Prep Batch #...: 2054108

Mercury	ND	0.10	mg/kg	SW846 7471A	02/25/02	EVJE31AA
		Dilution Factor: 1				
		Analysis Time..: 14:28		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E2B220307 Work Order #...: EVH2E1AC Matrix.....: SOLID
LCS Lot-Sample#: E2B220000-442
Prep Date.....: 02/22/02 Analysis Date..: 02/25/02
Prep Batch #...: 2053442 Analysis Time..: 15:30
Dilution Factor: 1 Instrument ID..: G03
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	250	231	mg/kg	92	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	94	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2B220307 Work Order #...: EVLEG1AC Matrix.....: SOLID
LCS Lot-Sample#: E2B260000-248
Prep Date.....: 02/25/02 Analysis Date..: 02/25/02
Prep Batch #...: 2057248 Analysis Time..: 10:11
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**48.2**	**ug/kg**	**96**	**SW846 8260B**
Benzene	**50.0**	**47.8**	**ug/kg**	**96**	**SW846 8260B**
Trichloroethene	**50.0**	**47.4**	**ug/kg**	**95**	**SW846 8260B**
Toluene	**50.0**	**46.3**	**ug/kg**	**93**	**SW846 8260B**
Chlorobenzene	**50.0**	**45.0**	**ug/kg**	**90**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(65 - 135)
1,2-Dichloroethane-d4	67	(60 - 140)
Toluene-d8	72	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E2B220307 Work Order #...: EVNJF1AC Matrix.....: SOLID
LCS Lot-Sample#: E2B270000-393
Prep Date.....: 02/25/02 Analysis Date..: 02/25/02
Prep Batch #...: 2058393 Analysis Time..: 11:49
Dilution Factor: 1 Instrument ID..: G16
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	5.00	4.62	mg/kg	92	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	98	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2B230000-107 Prep Batch #...: 2054107							
Aluminum	200	171	mg/kg	86	SW846 6010B	02/23/02	EVJE11AV
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	200	183	mg/kg	92	SW846 6010B	02/23/02	EVJE11AW
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	43.0	mg/kg	86	SW846 6010B	02/23/02	EVJE11AX
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	200	mg/kg	100	SW846 6010B	02/23/02	EVJE11A0
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	5.20	mg/kg	104	SW846 6010B	02/23/02	EVJE11A1
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	21.3	mg/kg	106	SW846 6010B	02/23/02	EVJE11A2
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	5.27	mg/kg	105	SW846 6010B	02/23/02	EVJE11A3
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	45.9	mg/kg	92	SW846 6010B	02/23/02	EVJE11A4
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	166	mg/kg	83	SW846 6010B	02/23/02	EVJE11A5
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.79	mg/kg	96	SW846 6010B	02/23/02	EVJE11A6
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	49.7	mg/kg	99	SW846 6010B	02/23/02	EVJE11A7
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	23.4	mg/kg	94	SW846 6010B	02/23/02	EVJE11A8
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	97.7	mg/kg	98	SW846 6010B	02/23/02	EVJE11A9
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	51.4	mg/kg	103	SW846 6010B	02/23/02	EVJE11CA
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	166	mg/kg	83	SW846 6010B	02/23/02	EVJE11CC
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	51.4	mg/kg	103	SW846 6010B	02/23/02	EVJE11CD
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	49.8	mg/kg	100	SW846 6010B	02/23/02	EVJE11CE
			Dilution Factor: 1				
			Analysis Time..: 23:00		Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E2B230000-108 Prep Batch #...: 2054108

Mercury	0.833	0.810	mg/kg	97	SW846 7471A	02/25/02	EVJE31AC
			Dilution Factor: 1				
			Analysis Time..: 14:30		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E2B220307 Work Order #...: EVH2E1AC Matrix.....: SOLID
LCS Lot-Sample#: E2B220000-442
Prep Date.....: 02/22/02 Analysis Date..: 02/25/02
Prep Batch #...: 2053442 Analysis Time..: 15:30
Dilution Factor: 1 Instrument ID..: G03
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	92	(55 - 130)	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	94	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2B220307 Work Order #...: EVLEG1AC Matrix.....: SOLID
LCS Lot-Sample#: E2B260000-248
Prep Date.....: 02/25/02 Analysis Date..: 02/25/02
Prep Batch #...: 2057248 Analysis Time..: 10:11
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**96**	**(65 - 150)**	**SW846 8260B**
Benzene	**96**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**95**	**(70 - 135)**	**SW846 8260B**
Toluene	**93**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**90**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(65 - 135)
1,2-Dichloroethane-d4	67	(60 - 140)
Toluene-d8	72	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E2B220307 Work Order #...: EVNJF1AC Matrix.....: SOLID
LCS Lot-Sample#: E2B270000-393
Prep Date.....: 02/25/02 Analysis Date..: 02/25/02
Prep Batch #...: 2058393 Analysis Time..: 11:49
Dilution Factor: 1 Instrument ID..: G16
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**92**	**(70 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	98	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2B230000-107 Prep Batch #...: 2054107					
Aluminum	86	(70 - 115)	SW846 6010B	02/23/02	EVJE11AV
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Arsenic	92	(75 - 115)	SW846 6010B	02/23/02	EVJE11AW
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Antimony	86	(75 - 115)	SW846 6010B	02/23/02	EVJE11AX
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Barium	100	(80 - 120)	SW846 6010B	02/23/02	EVJE11A0
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Cadmium	104	(80 - 120)	SW846 6010B	02/23/02	EVJE11A1
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Chromium	106	(85 - 120)	SW846 6010B	02/23/02	EVJE11A2
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Beryllium	105	(80 - 120)	SW846 6010B	02/23/02	EVJE11A3
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Lead	92	(80 - 120)	SW846 6010B	02/23/02	EVJE11A4
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Selenium	83	(70 - 115)	SW846 6010B	02/23/02	EVJE11A5
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Silver	96	(80 - 120)	SW846 6010B	02/23/02	EVJE11A6
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	99	(80 - 120)	SW846 6010B	02/23/02	EVJE11A7
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Copper	94	(80 - 120)	SW846 6010B	02/23/02	EVJE11A8
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Molybdenum	98	(80 - 120)	SW846 6010B	02/23/02	EVJE11A9
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Nickel	103	(80 - 120)	SW846 6010B	02/23/02	EVJE11CA
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Thallium	83	(75 - 125)	SW846 6010B	02/23/02	EVJE11CC
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Vanadium	103	(80 - 120)	SW846 6010B	02/23/02	EVJE11CD
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01
Zinc	100	(80 - 120)	SW846 6010B	02/23/02	EVJE11CE
		Dilution Factor: 1			
		Analysis Time..: 23:00	Analyst ID.....: 021088		Instrument ID..: M01

LCS Lot-Sample#: E2B230000-108 Prep Batch #...: 2054108

Mercury	97	(85 - 115)	SW846 7471A	02/25/02	EVJE31AC
		Dilution Factor: 1			
		Analysis Time..: 14:30	Analyst ID.....: 000023		Instrument ID..: M04

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID
Date Sampled...: 02/22/02 15:00 Date Received..: 02/22/02 17:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2B220307-001 Prep Batch #...: 2054107									
Aluminum									
	11500	200	12600 N	mg/kg			SW846 6010B	02/23-02/26/02	EVHWW1A4
	11500	200	12700 N	mg/kg			SW846 6010B	02/23-02/26/02	EVHWW1A5
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Arsenic									
	2.2	200	174	mg/kg	86		SW846 6010B	02/23-02/26/02	EVHWW1A6
	2.2	200	190	mg/kg	94	8.7	SW846 6010B	02/23-02/26/02	EVHWW1A7
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Antimony									
	ND	50.0	13.6 N	mg/kg	27		SW846 6010B	02/23-02/26/02	EVHWW1A8
	ND	50.0	16.0 N	mg/kg	32	16	SW846 6010B	02/23-02/26/02	EVHWW1A9
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Barium									
	93.1	200	266	mg/kg	87		SW846 6010B	02/23-02/26/02	EVHWW1CA
	93.1	200	282	mg/kg	94	5.7	SW846 6010B	02/23-02/26/02	EVHWW1CC
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Cadmium									
	ND	5.00	4.17	mg/kg	83		SW846 6010B	02/23-02/26/02	EVHWW1CD
	ND	5.00	4.54	mg/kg	91	8.6	SW846 6010B	02/23-02/26/02	EVHWW1CE
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Chromium									
	10.7	20.0	30.8	mg/kg	100		SW846 6010B	02/23-02/26/02	EVHWW1CF
	10.7	20.0	31.9	mg/kg	106	3.4	SW846 6010B	02/23-02/26/02	EVHWW1CG
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID
Date Sampled...: 02/22/02 15:00 Date Received..: 02/22/02 17:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.50	5.00	5.12	mg/kg	93		SW846 6010B	02/23-02/26/02	EVHWW1CH
	0.50	5.00	5.60	mg/kg	102	8.9	SW846 6010B	02/23-02/26/02	EVHWW1CJ
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Lead									
	3.4	50.0	45.8	mg/kg	85		SW846 6010B	02/23-02/26/02	EVHWW1CK
	3.4	50.0	49.6	mg/kg	92	8.0	SW846 6010B	02/23-02/26/02	EVHWW1CL
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Selenium									
	0.73	200	161	mg/kg	80		SW846 6010B	02/23-02/26/02	EVHWW1CM
	0.73	200	174	mg/kg	87	7.7	SW846 6010B	02/23-02/26/02	EVHWW1CN
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Silver									
	ND	5.00	4.14	mg/kg	83		SW846 6010B	02/23-02/26/02	EVHWW1CP
	ND	5.00	4.56	mg/kg	91	9.6	SW846 6010B	02/23-02/26/02	EVHWW1CQ
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Cobalt									
	5.9	50.0	51.0	mg/kg	90		SW846 6010B	02/23-02/26/02	EVHWW1CR
	5.9	50.0	54.9	mg/kg	98	7.4	SW846 6010B	02/23-02/26/02	EVHWW1CT
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Copper									
	10.8	25.0	32.8	mg/kg	88		SW846 6010B	02/23-02/26/02	EVHWW1CU
	10.8	25.0	34.6	mg/kg	95	5.3	SW846 6010B	02/23-02/26/02	EVHWW1CV
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID
Date Sampled...: 02/22/02 15:00 Date Received..: 02/22/02 17:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	ND	100	86.1	mg/kg	86		SW846 6010B	02/23-02/26/02	EVHWW1CW
	ND	100	94.8	mg/kg	95	9.6	SW846 6010B	02/23-02/26/02	EVHWW1CX
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Nickel									
	6.3	50.0	50.9	mg/kg	89		SW846 6010B	02/23-02/26/02	EVHWW1C0
	6.3	50.0	54.9	mg/kg	97	7.5	SW846 6010B	02/23-02/26/02	EVHWW1C1
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Thallium									
	ND	200	164	mg/kg	82		SW846 6010B	02/23-02/26/02	EVHWW1C2
	ND	200	179	mg/kg	89	8.9	SW846 6010B	02/23-02/26/02	EVHWW1C3
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Vanadium									
	35.0	50.0	82.0	mg/kg	94		SW846 6010B	02/23-02/26/02	EVHWW1C4
	35.0	50.0	85.8	mg/kg	102	4.6	SW846 6010B	02/23-02/26/02	EVHWW1C5
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						
Zinc									
	44.1	50.0	91.2	mg/kg	94		SW846 6010B	02/23-02/26/02	EVHWW1C6
	44.1	50.0	94.6	mg/kg	101	3.7	SW846 6010B	02/23-02/26/02	EVHWW1C7
			Dilution Factor: 1						
			Analysis Time..: 14:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2054020						

MS Lot-Sample #: E2B220307-001 Prep Batch #...: 2054108

Mercury									
	0.048	0.167	0.238	mg/kg	114		SW846 7471A	02/25/02	EVHWW1C8
	0.048	0.167	0.203	mg/kg	93	16	SW846 7471A	02/25/02	EVHWW1C9
			Dilution Factor: 1						
			Analysis Time..: 14:33		Instrument ID..: M04			Analyst ID.....: 000023	
			MS Run #.....: 2054021						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E2B220307	Work Order #...:	EVHWW1A2-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2B220307-001		EVHWW1A3-MSD		
Date Sampled...:	02/22/02 15:00	Date Received..:	02/22/02 17:00	MS Run #.....:	2053225
Prep Date.....:	02/22/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2053442	Analysis Time..:	16:49		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Diesel)	**ND**	**250**	**221**	**mg/kg**	**88**		**SW846 8015B**
	ND	**250**	**219**	**mg/kg**	**88**	**0.79**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	89	(60 - 130)
	90	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E2B220307	Work Order #...:	EVHWW1DA-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2B220307-001		EVHWW1DC-MSD		
Date Sampled...:	02/22/02 15:00	Date Received..:	02/22/02 17:00	MS Run #.....:	2057080
Prep Date.....:	02/25/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2057248	Analysis Time..:	13:24		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	51.3	ug/kg	103		SW846 8260B
	ND	50.0	49.3	ug/kg	99	3.8	SW846 8260B
Benzene	ND	50.0	52.1	ug/kg	104		SW846 8260B
	ND	50.0	50.2	ug/kg	100	3.7	SW846 8260B
Trichloroethene	ND	50.0	52.7	ug/kg	105		SW846 8260B
	ND	50.0	51.1	ug/kg	102	3.1	SW846 8260B
Toluene	ND	50.0	50.7	ug/kg	101		SW846 8260B
	ND	50.0	48.6	ug/kg	97	4.2	SW846 8260B
Chlorobenzene	ND	50.0	48.9	ug/kg	98		SW846 8260B
	ND	50.0	47.3	ug/kg	95	3.4	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(65 - 135)
	95	(65 - 135)
1,2-Dichloroethane-d4	75	(60 - 140)
	72	(60 - 140)
Toluene-d8	80	(70 - 130)
	78	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...:	E2B220307	Work Order #...:	EVH051A5-MS	Matrix.....:	SOLID
MS Lot-Sample #:	G2B220311-005		EVH051A6-MSD		
Date Sampled...:	02/19/02	Date Received..:	02/22/02 10:00	MS Run #.....:	2058191
Prep Date.....:	02/25/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2058390	Analysis Time..:	15:15		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G16

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Gasoline)	ND	5.00	2.83	mg/kg	57 a		SW846 8015B
	ND	5.00	2.87	mg/kg	57 a	1.2	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	87	(60 - 130)
	88	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID
Date Sampled...: 02/22/02 15:00 Date Received..: 02/22/02 17:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2B220307-001 Prep Batch #...: 2054107							
Aluminum	NC	(70 - 115)			SW846 6010B	02/23-02/26/02	EVHWW1A4
	NC	(70 - 115)		(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1A5
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Arsenic	86	(75 - 115)			SW846 6010B	02/23-02/26/02	EVHWW1A6
	94	(75 - 115)	8.7	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1A7
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Antimony	27 N	(75 - 115)			SW846 6010B	02/23-02/26/02	EVHWW1A8
	32 N	(75 - 115)	16	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1A9
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Barium	87	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1CA
	94	(80 - 120)	5.7	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1CC
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Cadmium	83	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1CD
	91	(80 - 120)	8.6	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1CE
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Chromium	100	(85 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1CF
	106	(85 - 120)	3.4	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1CG
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Beryllium	93	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1CH
	102	(80 - 120)	8.9	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1CJ
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID
Date Sampled...: 02/22/02 15:00 Date Received..: 02/22/02 17:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	85	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1CK
	92	(80 - 120)	8.0	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1CL
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Selenium	80	(70 - 115)			SW846 6010B	02/23-02/26/02	EVHWW1CM
	87	(70 - 115)	7.7	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1CN
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Silver	83	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1CP
	91	(80 - 120)	9.6	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1CQ
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Cobalt	90	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1CR
	98	(80 - 120)	7.4	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1CT
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Copper	88	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1CU
	95	(80 - 120)	5.3	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1CV
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Molybdenum	86	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1CW
	95	(80 - 120)	9.6	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1CX
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					
Nickel	89	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1C0
	97	(80 - 120)	7.5	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1C1
		Dilution Factor: 1					
		Analysis Time..: 14:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2054020					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2B220307 Matrix.....: SOLID
Date Sampled...: 02/22/02 15:00 Date Received..: 02/22/02 17:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	82	(75 - 125)			SW846 6010B	02/23-02/26/02	EVHWW1C2
	89	(75 - 125)	8.9	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1C3

Dilution Factor: 1
Analysis Time..: 14:43 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2054020

Vanadium	94	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1C4
	102	(80 - 120)	4.6	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1C5

Dilution Factor: 1
Analysis Time..: 14:43 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2054020

Zinc	94	(80 - 120)			SW846 6010B	02/23-02/26/02	EVHWW1C6
	101	(80 - 120)	3.7	(0-25)	SW846 6010B	02/23-02/26/02	EVHWW1C7

Dilution Factor: 1
Analysis Time..: 14:43 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2054020

MS Lot-Sample #: E2B220307-001 Prep Batch #...: 2054108

Mercury	114	(80 - 120)			SW846 7471A	02/25/02	EVHWW1C8
	93	(80 - 120)	16	(0-20)	SW846 7471A	02/25/02	EVHWW1C9

Dilution Factor: 1
Analysis Time..: 14:33 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 2054021

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
NC The recovery and/or RPD were not calculated.
N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E2B220307	Work Order #...:	EVHWW1A2-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2B220307-001		EVHWW1A3-MSD		
Date Sampled...:	02/22/02 15:00	Date Received..:	02/22/02 17:00	MS Run #.....:	2053225
Prep Date.....:	02/22/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2053442	Analysis Time..:	16:49		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**88**	**(55 - 130)**			**SW846 8015B**
	88	**(55 - 130)**	**0.79**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	89	(60 - 130)
	90	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E2B220307	Work Order #...:	EVHWW1DA-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2B220307-001		EVHWW1DC-MSD		
Date Sampled...:	02/22/02 15:00	Date Received..:	02/22/02 17:00	MS Run #.....:	2057080
Prep Date.....:	02/25/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2057248	Analysis Time..:	13:24		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	103	(65 - 150)			SW846 8260B
	99	(65 - 150)	3.8	(0-30)	SW846 8260B
Benzene	104	(70 - 130)			SW846 8260B
	100	(70 - 130)	3.7	(0-30)	SW846 8260B
Trichloroethene	105	(70 - 135)			SW846 8260B
	102	(70 - 135)	3.1	(0-30)	SW846 8260B
Toluene	101	(70 - 130)			SW846 8260B
	97	(70 - 130)	4.2	(0-30)	SW846 8260B
Chlorobenzene	98	(70 - 130)			SW846 8260B
	95	(70 - 130)	3.4	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(65 - 135)
	95	(65 - 135)
1,2-Dichloroethane-d4	75	(60 - 140)
	72	(60 - 140)
Toluene-d8	80	(70 - 130)
	78	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E2B220307	Work Order #...:	EVH051A5-MS	Matrix.....:	SOLID
MS Lot-Sample #:	G2B220311-005		EVH051A6-MSD		
Date Sampled...:	02/19/02	Date Received..:	02/22/02 10:00	MS Run #.....:	2058191
Prep Date.....:	02/25/02	Analysis Date..:	02/25/02		
Prep Batch #...:	2058390	Analysis Time..:	15:15		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	57 a	(70 - 140)			SW846 8015B
	57 a	(70 - 140)	1.2	(0-40)	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	87	(60 - 130)
	88	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

LABORATORY REPORT

Prepared For: STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705

Attention: Diane Suzuki
Project: E2B220307

Sampled: 02/22/02
Received: 02/22/02
Reported: 02/26/02

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1169
AZ DHS License #AZ0062

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E2B220307

Report Number: CLB0247

Sampled:02/22/02
Received:02/22/02

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CLB0247-01 (SOURCE- FF-1-4' - Soil)								
Acenaphthene	EPA 8310	C2B2512	50	ND	1	2/25/2002	2/25/2002	
Acenaphthylene	EPA 8310	C2B2512	200	ND	1	2/25/2002	2/25/2002	
Anthracene	EPA 8310	C2B2512	2.0	ND	1	2/25/2002	2/25/2002	
Benzo(a)anthracene	EPA 8310	C2B2512	2.0	ND	1	2/25/2002	2/25/2002	
Benzo(a)pyrene	EPA 8310	C2B2512	2.0	ND	1	2/25/2002	2/25/2002	
Benzo(b)fluoranthene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/25/2002	
Benzo(g,h,i)perylene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/25/2002	
Benzo(k)fluoranthene	EPA 8310	C2B2512	2.0	ND	1	2/25/2002	2/25/2002	
Chrysene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/25/2002	
Dibenzo(a,h)anthracene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/25/2002	
Fluoranthene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/25/2002	
Fluorene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/25/2002	
Indeno(1,2,3-cd)pyrene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/25/2002	
Naphthalene	EPA 8310	C2B2512	40	ND	1	2/25/2002	2/25/2002	
Phenanthrene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/25/2002	
Pyrene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/25/2002	
Surrogate: 2-Methylanthracene (35-125%)				*69 %*				
Sample ID: CLB0247-02 (SOURCE- FF-2-4' - Soil)								
Acenaphthene	EPA 8310	C2B2605	50	ND	1	2/26/2002	2/26/2002	
Acenaphthylene	EPA 8310	C2B2605	200	ND	1	2/26/2002	2/26/2002	
Anthracene	EPA 8310	C2B2605	2.0	ND	1	2/26/2002	2/26/2002	
Benzo(a)anthracene	EPA 8310	C2B2605	2.0	ND	1	2/26/2002	2/26/2002	
Benzo(a)pyrene	EPA 8310	C2B2605	2.0	ND	1	2/26/2002	2/26/2002	
Benzo(b)fluoranthene	EPA 8310	C2B2605	5.0	ND	1	2/26/2002	2/26/2002	
Benzo(g,h,i)perylene	EPA 8310	C2B2605	5.0	ND	1	2/26/2002	2/26/2002	
Benzo(k)fluoranthene	EPA 8310	C2B2605	2.0	ND	1	2/26/2002	2/26/2002	
Chrysene	EPA 8310	C2B2605	5.0	ND	1	2/26/2002	2/26/2002	
Dibenzo(a,h)anthracene	EPA 8310	C2B2605	5.0	ND	1	2/26/2002	2/26/2002	
Fluoranthene	EPA 8310	C2B2605	5.0	ND	1	2/26/2002	2/26/2002	
Fluorene	EPA 8310	C2B2605	5.0	ND	1	2/26/2002	2/26/2002	
Indeno(1,2,3-cd)pyrene	EPA 8310	C2B2605	5.0	ND	1	2/26/2002	2/26/2002	
Naphthalene	EPA 8310	C2B2605	40	ND	1	2/26/2002	2/26/2002	
Phenanthrene	EPA 8310	C2B2605	5.0	ND	1	2/26/2002	2/26/2002	
Pyrene	EPA 8310	C2B2605	5.0	ND	1	2/26/2002	2/26/2002	
Surrogate: 2-Methylanthracene (35-125%)				*75 %*				

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E2B220307

Report Number: CLB0247

Sampled:02/22/02
Received:02/22/02

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CLB0247-03 (SOURCE- FF-3-8' - Soil)								
Acenaphthene	EPA 8310	C2B2512	50	ND	1	2/25/2002	2/26/2002	
Acenaphthylene	EPA 8310	C2B2512	200	ND	1	2/25/2002	2/26/2002	
Anthracene	EPA 8310	C2B2512	2.0	ND	1	2/25/2002	2/26/2002	
Benzo(a)anthracene	EPA 8310	C2B2512	2.0	ND	1	2/25/2002	2/26/2002	
Benzo(a)pyrene	EPA 8310	C2B2512	2.0	ND	1	2/25/2002	2/26/2002	
Benzo(b)fluoranthene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/26/2002	
Benzo(g,h,i)perylene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/26/2002	
Benzo(k)fluoranthene	EPA 8310	C2B2512	2.0	ND	1	2/25/2002	2/26/2002	
Chrysene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/26/2002	
Dibenzo(a,h)anthracene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/26/2002	
Fluoranthene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/26/2002	
Fluorene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/26/2002	
Indeno(1,2,3-cd)pyrene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/26/2002	
Naphthalene	EPA 8310	C2B2512	40	ND	1	2/25/2002	2/26/2002	
Phenanthrene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/26/2002	
Pyrene	EPA 8310	C2B2512	5.0	ND	1	2/25/2002	2/26/2002	
Surrogate: 2-Methylanthracene (35-125%)				*74 %*				
Sample ID: CLB0247-04 (SOURCE- FF-4-2' - Soil)								
Acenaphthene	EPA 8310	C2B2512	100	ND	2	2/25/2002	2/25/2002	
Acenaphthylene	EPA 8310	C2B2512	400	ND	2	2/25/2002	2/25/2002	
Anthracene	EPA 8310	C2B2512	4.0	ND	2	2/25/2002	2/25/2002	
Benzo(a)anthracene	EPA 8310	C2B2512	4.0	**11**	2	2/25/2002	2/25/2002	
Benzo(a)pyrene	EPA 8310	C2B2512	4.0	**27**	2	2/25/2002	2/25/2002	
Benzo(b)fluoranthene	EPA 8310	C2B2512	10	**19**	2	2/25/2002	2/25/2002	
Benzo(g,h,i)perylene	EPA 8310	C2B2512	10	**16**	2	2/25/2002	2/25/2002	
Benzo(k)fluoranthene	EPA 8310	C2B2512	4.0	**10**	2	2/25/2002	2/25/2002	
Chrysene	EPA 8310	C2B2512	10	ND	2	2/25/2002	2/25/2002	
Dibenzo(a,h)anthracene	EPA 8310	C2B2512	10	**31**	2	2/25/2002	2/25/2002	
Fluoranthene	EPA 8310	C2B2512	10	**27**	2	2/25/2002	2/25/2002	
Fluorene	EPA 8310	C2B2512	10	ND	2	2/25/2002	2/25/2002	
Indeno(1,2,3-cd)pyrene	EPA 8310	C2B2512	10	**19**	2	2/25/2002	2/25/2002	
Naphthalene	EPA 8310	C2B2512	80	ND	2	2/25/2002	2/25/2002	
Phenanthrene	EPA 8310	C2B2512	10	ND	2	2/25/2002	2/25/2002	
Pyrene	EPA 8310	C2B2512	10	**22**	2	2/25/2002	2/25/2002	
Surrogate: 2-Methylanthracene (35-125%)				*80 %*				

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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STL Los Angeles 1721 S. Grand Avenue Santa Ana, CA 92705 Attention: Diane Suzuki	Client Project ID: E2B220307 Report Number: CLB0247	Sampled:02/22/02 Received:02/22/02

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2B2512 Extracted: 02/25/02										
Blank Analyzed: 02/25/02 (C2B2512-BLK1)										
Acenaphthene	ND	50	ug/kg							
Acenaphthylene	ND	200	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benzo(a)anthracene	ND	2.0	ug/kg							
Benzo(a)pyrene	ND	2.0	ug/kg							
Benzo(b)fluoranthene	ND	5.0	ug/kg							
Benzo(g,h,i)perylene	ND	5.0	ug/kg							
Benzo(k)fluoranthene	ND	2.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo(a,h)anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
Naphthalene	ND	40	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate: 2-Methylanthracene	*5.43*		*ug/kg*	*8.00*		*68*	*35-125*			
LCS Analyzed: 02/25/02 (C2B2512-BS1)										
Acenaphthene	117	50	ug/kg	160		73	45-115			
Acenaphthylene	340	200	ug/kg	320		106	65-150			
Anthracene	10.5	2.0	ug/kg	16.0		66	50-115			
Benzo(a)anthracene	12.8	2.0	ug/kg	16.0		80	70-115			
Benzo(a)pyrene	10.0	2.0	ug/kg	16.0		62	40-115			
Benzo(b)fluoranthene	25.0	5.0	ug/kg	32.0		78	70-115			
Benzo(g,h,i)perylene	24.9	5.0	ug/kg	32.0		78	65-115			
Benzo(k)fluoranthene	12.4	2.0	ug/kg	16.0		78	70-115			
Chrysene	12.4	5.0	ug/kg	16.0		78	70-115			
Dibenzo(a,h)anthracene	25.4	5.0	ug/kg	32.0		79	70-115			
Fluoranthene	25.3	5.0	ug/kg	32.0		79	75-115			
Fluorene	24.4	5.0	ug/kg	32.0		76	60-115			
Indeno(1,2,3-cd)pyrene	13.7	5.0	ug/kg	16.0		86	70-115			
Naphthalene	148	40	ug/kg	160		92	60-120			
Phenanthrene	12.4	5.0	ug/kg	16.0		78	70-115			
Pyrene	13.5	5.0	ug/kg	16.0		84	60-115			

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Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E2B220307

Report Number: CLB0247

Sampled:02/22/02
Received:02/22/02

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2B2512 Extracted: 02/25/02										
LCS Analyzed: 02/25/02 (C2B2512-BS1)										
Surrogate: 2-Methylanthracene	*5.46*		*ug/kg*	*8.00*		*68*	*35-125*			
Matrix Spike Analyzed: 02/25/02 (C2B2512-MS1)					**Source: CLB0247-03**					
Acenaphthene	112	50	ug/kg	160	ND	63	40-130			
Acenaphthylene	345	200	ug/kg	320	ND	97	30-130			
Anthracene	11.1	2.0	ug/kg	16.0	ND	69	55-115			
Benzo(a)anthracene	13.3	2.0	ug/kg	16.0	ND	83	55-115			
Benzo(a)pyrene	11.0	2.0	ug/kg	16.0	ND	69	45-115			
Benzo(b)fluoranthene	26.0	5.0	ug/kg	32.0	ND	81	40-120			
Benzo(g,h,i)perylene	25.6	5.0	ug/kg	32.0	ND	80	40-115			
Benzo(k)fluoranthene	12.8	2.0	ug/kg	16.0	ND	80	45-115			
Chrysene	13.4	5.0	ug/kg	16.0	ND	84	40-125			
Dibenzo(a,h)anthracene	25.8	5.0	ug/kg	32.0	ND	81	25-125			
Fluoranthene	26.4	5.0	ug/kg	32.0	ND	82	50-125			
Fluorene	24.4	5.0	ug/kg	32.0	ND	74	40-120			
Indeno(1,2,3-cd)pyrene	14.6	5.0	ug/kg	16.0	ND	90	40-115			
Naphthalene	143	40	ug/kg	160	ND	70	30-135			
Phenanthrene	13.9	5.0	ug/kg	16.0	ND	87	35-135			
Pyrene	14.3	5.0	ug/kg	16.0	ND	89	20-150			
Surrogate: 2-Methylanthracene	*5.79*		*ug/kg*	*8.00*		*72*	*35-125*			
Matrix Spike Dup Analyzed: 02/25/02 (C2B2512-MSD1)					**Source: CLB0247-03**					
Acenaphthene	120	50	ug/kg	160	ND	68	40-130	7	30	
Acenaphthylene	362	200	ug/kg	320	ND	102	30-130	5	20	
Anthracene	11.3	2.0	ug/kg	16.0	ND	71	55-115	2	20	
Benzo(a)anthracene	13.3	2.0	ug/kg	16.0	ND	83	55-115	0	20	
Benzo(a)pyrene	11.0	2.0	ug/kg	16.0	ND	69	45-115	0	20	
Benzo(b)fluoranthene	25.8	5.0	ug/kg	32.0	ND	81	40-120	0.8	20	
Benzo(g,h,i)perylene	25.4	5.0	ug/kg	32.0	ND	79	40-115	0.8	20	
Benzo(k)fluoranthene	12.7	2.0	ug/kg	16.0	ND	79	45-115	0.8	20	
Chrysene	13.2	5.0	ug/kg	16.0	ND	82	40-125	2	25	
Dibenzo(a,h)anthracene	25.4	5.0	ug/kg	32.0	ND	79	25-125	2	25	
Fluoranthene	26.6	5.0	ug/kg	32.0	ND	83	50-125	0.8	20	
Fluorene	25.1	5.0	ug/kg	32.0	ND	76	40-120	3	20	
Indeno(1,2,3-cd)pyrene	14.7	5.0	ug/kg	16.0	ND	90	40-115	0.7	20	

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Project Manager

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STL Los Angeles 1721 S. Grand Avenue Santa Ana, CA 92705 Attention: Diane Suzuki	Client Project ID: E2B220307 Report Number: CLB0247	Sampled:02/22/02 Received:02/22/02

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2B2512 Extracted: 02/25/02										
Matrix Spike Dup Analyzed: 02/25/02 (C2B2512-MSD1)					**Source: CLB0247-03**					
Naphthalene	158	40	ug/kg	160	ND	79	30-135	10	20	
Phenanthrene	14.0	5.0	ug/kg	16.0	ND	88	35-135	0.7	30	
Pyrene	14.4	5.0	ug/kg	16.0	ND	90	20-150	0.7	20	
Surrogate: 2-Methylanthracene	*6.55*		*ug/kg*	*8.00*		*82*	*35-125*			
Batch: C2B2605 Extracted: 02/26/02										
Blank Analyzed: 02/26/02 (C2B2605-BLK1)										
Acenaphthene	ND	50	ug/kg							
Acenaphthylene	ND	200	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benzo(a)anthracene	ND	2.0	ug/kg							
Benzo(a)pyrene	ND	2.0	ug/kg							
Benzo(b)fluoranthene	ND	5.0	ug/kg							
Benzo(g,h,i)perylene	ND	5.0	ug/kg							
Benzo(k)fluoranthene	ND	2.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo(a,h)anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
Naphthalene	ND	40	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate: 2-Methylanthracene	*5.51*		*ug/kg*	*8.00*		*69*	*35-125*			
LCS Analyzed: 02/26/02 (C2B2605-BS1)										
Acenaphthene	124	50	ug/kg	160		78	45-115			
Acenaphthylene	422	200	ug/kg	320		132	65-150			
Anthracene	11.4	2.0	ug/kg	16.0		71	50-115			
Benzo(a)anthracene	13.3	2.0	ug/kg	16.0		83	70-115			
Benzo(a)pyrene	11.1	2.0	ug/kg	16.0		69	40-115			
Benzo(b)fluoranthene	26.0	5.0	ug/kg	32.0		81	70-115			
Benzo(g,h,i)perylene	25.8	5.0	ug/kg	32.0		81	65-115			
Benzo(k)fluoranthene	12.8	2.0	ug/kg	16.0		80	70-115			

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Project Manager

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STL Los Angeles 1721 S. Grand Avenue Santa Ana, CA 92705 Attention: Diane Suzuki	Client Project ID: E2B220307 Report Number: CLB0247	Sampled:02/22/02 Received:02/22/02

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2B2605 Extracted: 02/26/02										
LCS Analyzed: 02/26/02 (C2B2605-BS1)										
Chrysene	12.8	5.0	ug/kg	16.0		80	70-115			
Dibenzo(a,h)anthracene	26.5	5.0	ug/kg	32.0		83	70-115			
Fluoranthene	26.6	5.0	ug/kg	32.0		83	75-115			
Fluorene	25.8	5.0	ug/kg	32.0		81	60-115			
Indeno(1,2,3-cd)pyrene	14.5	5.0	ug/kg	16.0		91	70-115			
Naphthalene	172	40	ug/kg	160		108	60-120			
Phenanthrene	14.5	5.0	ug/kg	16.0		91	70-115			
Pyrene	14.1	5.0	ug/kg	16.0		88	60-115			
Surrogate: 2-Methylanthracene	*5.95*		*ug/kg*	*8.00*		*74*	*35-125*			
Matrix Spike Analyzed: 02/26/02 (C2B2605-MS1)					**Source: CLB0186-01RE**					
Acenaphthene	115	50	ug/kg	160	ND	72	40-130			
Acenaphthylene	373	200	ug/kg	320	ND	107	30-130			
Anthracene	10.3	2.0	ug/kg	16.0	ND	62	55-115			
Benzo(a)anthracene	7.65	2.0	ug/kg	16.0	ND	45	55-115			*M2*
Benzo(a)pyrene	3.96	2.0	ug/kg	16.0	ND	22	45-115			*M2*
Benzo(b)fluoranthene	12.1	5.0	ug/kg	32.0	ND	35	40-120			*M2*
Benzo(g,h,i)perylene	ND	5.0	ug/kg	32.0	ND	13	40-115			*M2*
Benzo(k)fluoranthene	4.92	2.0	ug/kg	16.0	ND	29	45-115			*M2*
Chrysene	8.87	5.0	ug/kg	16.0	ND	51	40-125			
Dibenzo(a,h)anthracene	ND	5.0	ug/kg	32.0	ND	2	25-125			*M2*
Fluoranthene	29.7	5.0	ug/kg	32.0	5.3	76	50-125			
Fluorene	24.3	5.0	ug/kg	32.0	ND	72	40-120			
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg	16.0	ND	11	40-115			*M2*
Naphthalene	299	40	ug/kg	160	ND	174	30-135			*M1*
Phenanthrene	18.5	5.0	ug/kg	16.0	ND	87	35-135			
Pyrene	16.1	5.0	ug/kg	16.0	ND	76	20-150			
Surrogate: 2-Methylanthracene	*5.46*		*ug/kg*	*8.00*		*68*	*35-125*			

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Project Manager

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STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E2B220307

Report Number: CLB0247

Sampled:02/22/02
Received:02/22/02

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2B2605 Extracted: 02/26/02										
Matrix Spike Dup Analyzed: 02/26/02 (C2B2605-MSD1)					**Source: CLB0186-01RE**					
Acenaphthene	111	50	ug/kg	160	ND	69	40-130	4	30	
Acenaphthylene	332	200	ug/kg	320	ND	94	30-130	12	20	
Anthracene	10.2	2.0	ug/kg	16.0	ND	62	55-115	1	20	
Benzo(a)anthracene	7.79	2.0	ug/kg	16.0	ND	46	55-115	2	20	*M2*
Benzo(a)pyrene	4.17	2.0	ug/kg	16.0	ND	23	45-115	5	20	*M2*
Benzo(b)fluoranthene	12.4	5.0	ug/kg	32.0	ND	36	40-120	2	20	*M2*
Benzo(g,h,i)perylene	5.16	5.0	ug/kg	32.0	ND	14	40-115	5	20	*M2*
Benzo(k)fluoranthene	4.96	2.0	ug/kg	16.0	ND	29	45-115	0.8	20	*M2*
Chrysene	9.78	5.0	ug/kg	16.0	ND	57	40-125	10	25	
Dibenzo(a,h)anthracene	ND	5.0	ug/kg	32.0	ND	1	25-125	8	25	*M2*
Fluoranthene	31.0	5.0	ug/kg	32.0	5.3	80	50-125	4	20	
Fluorene	24.1	5.0	ug/kg	32.0	ND	72	40-120	0.8	20	
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg	16.0	ND	12	40-115	6	20	*M2*
Naphthalene	309	40	ug/kg	160	ND	180	30-135	3	20	*M1*
Phenanthrene	20.5	5.0	ug/kg	16.0	ND	99	35-135	10	30	
Pyrene	19.2	5.0	ug/kg	16.0	ND	96	20-150	18	20	
Surrogate: 2-Methylanthracene	*5.34*		*ug/kg*	*8.00*		*67*	*35-125*			

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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STL Los Angeles 1721 S. Grand Avenue Santa Ana, CA 92705 Attention: Diane Suzuki	Client Project ID: E2B220307 Report Number: CLB0247	Sampled:02/22/02 Received:02/22/02

DATA QUALIFIERS AND DEFINITIONS

M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

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Clifton J. Kiser
Project Manager

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Chain of Custody Record

Del Mar Collision

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: STL LOS ANGELES	Project Manager: D SUZUKI	Date: 02/22/02	Chain of Custody Number: 050334
Address: 1721 S GRAND AVE	Telephone Number (Area Code)/Fax Number: (714) 758-8610 EXT 304	Lab Number: E2B220307	Page 1 of 1
City: SANTA ANA; State: CA; Zip Code: 92705	Site Contact: —	Lab Contact: D SUZUKI	
Project Name and Location (State): C-6	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8210 PAH	Special Instructions/ Conditions of Receipt
SOURCE-FF-1-4'	2/22/02	~~3:10~~ 1500			X	X	X						X	
" - " - 2-4'	↓	1515				↓	↓						↓	
" - " - 3-8'	↓	1545				↓	↓						↓	
" - " - 4-2'	↓	1600				↓	↓						↓	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	02/22/02	1650	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By: [signature]	02/22/02	9:20

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

4°C

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BOE-C6-0180479