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

WELL DESTRUCTION REPORT

GROUNDWATER MONITORING WELL WCC-3D

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

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

Date: **June 28, 2002**

Re: **Well Destruction Report, Groundwater Monitoring Well WCC-3D, Boeing Realty Corporation, Former C-6 Facility, Los Angeles, California**

Haley & Aldrich, Inc. is herein providing this groundwater monitoring well destruction report to summarize the destruction and final laboratory results from the groundwater monitoring well WCC-3D. Groundwater monitoring well WCC-3D was located along the northern boundary on Parcel C of the Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California (Site) as shown on Figures 1 and 2.

INTRODUCTION

Groundwater monitoring well WCC-3D was installed on June 27, 1989, by Woodward Clyde Consultants (WCC) as part of a Site-wide groundwater monitoring program. The purpose of groundwater monitoring well WCC-3D was to facilitate sampling and measurement of groundwater conditions at the bottom of the Bellflower Aquitard. Groundwater monitoring well WCC-3D is constructed of 4-inch diameter Schedule-40 PVC screen and casing, extended to a depth of approximately 140 feet, and has a screened interval from approximately 120 to 140 feet below ground surface (bgs). The boring and well construction log is included in Appendix A. Based on the lithologic logging performed during a groundwater reconnaissance program in 2000 and 2001, it appeared that well WCC-3D was screened in the confining unit or Lower Bellflower unit of the Bellflower Aquitard.

The Los Angeles Regional Water Quality Control Board (LARWQCB) is the lead agency for the Site and the County of Los Angeles, Department of Health Services (DHS) is responsible for the permitting of groundwater monitoring wells at the Site. Haley & Aldrich, Inc. submitted a well destruction permit application to the DHS on June 5, 2002, notifying the DHS of the closure of groundwater monitoring well WCC-3D. A copy of the permit application is included as Appendix B.

FIELD ACTIVITIES

The scope of work for WCC-3D consisted of monitoring and sampling groundwater, submitting the groundwater sample to the laboratory for analysis, and removing the well. These tasks are discussed below.

Groundwater Monitoring and Sampling

TAIT Environmental Management, Inc. (Tait), BRC's groundwater monitoring and sampling subcontractor, gauged and sampled WCC-3D on March 21, 2002. The water level was gauged against the top of the well casing to the nearest 0.01-foot using an electronic water level indicator. The following information was recorded.

Well No.	Top of Casing Elevation (feet above MSL)	Depth to Water (feet below top of casing)	Groundwater Elevation (feet above MSL)
WCC-3D	51.16	64.16	-13.00

After the water level was gauged, WCC-3D was purged using a submersible pump. Purged water was monitored in the field for electronic conductivity, temperature, and pH. Three borehole volumes of water (approximately 147 gallons) were purged from WCC-3D and placed in a Department of Transportation (DOT) approved 55-gallon drum. The groundwater monitoring and sampling data sheet from the March sampling event is included as Appendix C.

Upon completion of well purging, a groundwater sample was collected using a disposable bailer with a bottom-emptying device. Three 40-ml VOA bottles were filled and placed in a cooler with ice and transported under standard chain-of-custody procedures to Severn Trent Laboratories (STL) in Santa Ana, California for analysis. The groundwater sample was analyzed for volatile organic compounds (VOCs) by EPA Method 8260B. Groundwater analytical results are included in Appendix D.

Groundwater Sampling Results

Based on the results of the laboratory analyses of groundwater samples collected in March 2002 from WCC-3D, concentrations of the primary compounds of potential concern found at the Site are summarized in the following table (see Appendix D).

Analyte	Concentration in WCC-3D (µg/l)
Cis-1,2-dichloroethene	1.7
1,1,1-trichloroethane	6.7
1,1-dichloroethene	8.7
Trichloroethene	1.8

µg/l = micrograms per liter

Well Destruction

West Hazmat Drilling, Inc. (WHD) was contracted by Haley & Aldrich, Inc. to destroy the well. The 4-inch PVC casing, screen, grout and sand pack was destroyed by overdrilling with an 11¼-inch outside diameter (OD) auger to a total depth of approximately 140 feet bgs. To facilitate the access to the well, the well casing was fitted with a PVC extension and surrounding grade was raised. The casing was unable to be pulled intact due to the pressure of the PVC casing extension. The materials recovered during drilling were transferred into a roll-off bin for temporary onsite storage pending final disposition.

A photoionization detector (PID) was used during the fieldwork to monitor the level of VOCs present in soil cuttings and the breathing zone. The PID used for this investigation was a RAE Systems MiniRAE Plus with a 10.6 eV lamp. PID readings did not exceed 1.1 parts per million (ppm).

Following the overdrilling, the borehole was grouted with a mixture of approximately 5 bags (94 pounds each) of Portland cement per 40 gallons of water; for a total grout volume of approximately 750 gallons. During grout placement, a 1.5-inch diameter tremie pipe was placed at the bottom of the 11¼-inch OD auger and grout was placed in 20-foot lifts from the total depth to approximately 8 feet bgs. The borehole was filled from 8 feet bgs to the surface with bentonite chips resulting in a total volume of approximately 922 gallons of grout and bentonite (greater than the approximate volume of the borehole). The following observations were recorded during the destruction activities:

Well Destruction Observations for WCC-3D

Overdrilling Observations	**WCC-3D**
Original Depth of Well, feet	140
Depth of overdrilling (feet)	141
Blank casing removed in feet	120
Screened casing removed in feet	20
Auger depth before cuttings observed, feet bgs	0
Bentonite – grout/sand mix removed, cubic yards	Approximately 4
Backfilling Observations	
Backfill mixture, Portland (bags)/ Hydrogel (bags) / water (gallons)	43/21.5/572
Total quantity of Portland cement used (bags)	43
Total Quantity of Hydrogel used (bags)	21.5

A well decommissioning report form is included in Appendix E.

WASTE STORAGE, HAULING AND DISPOSAL

Purge and decontamination water from the groundwater sampling and well destruction activities was stored in four 55-gallon drums. Waste from the well destruction activities (sand pack and sealing materials) was contained in a roll-off bin. One soil sample was collected from the bin (the laboratory report designation is SP-38) and analyzed for Title 22 metals by EPA Methods 6010B and 7471, VOCs by EPA Method 8260B, total petroleum hydrocarbons (TPH) by EPA Method 8015B and polyaromatic hydrocarbons (PAHs) by EPA Method 8310. The analytical report for this sample is also included in Appendix D. The soil and wastewater are pending disposition by BRC.

Should you have any questions concerning the contents of this memorandum or require additional information, please contact either of the undersigned.

Sincerely yours,
Haley & Aldrich, Inc.

Richard M. Farson, PE
Project Engineer

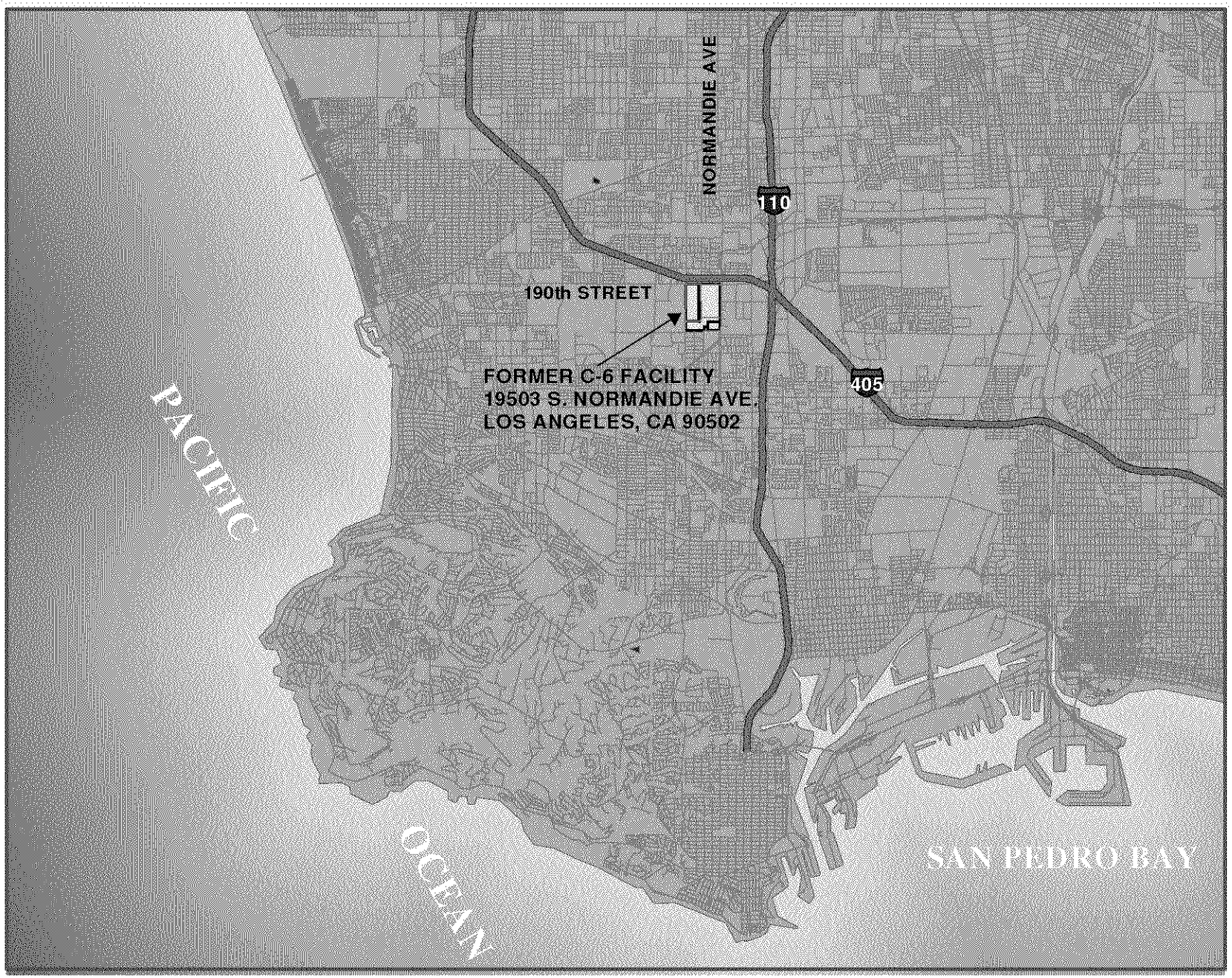
Scott P. Zachary
Project Manager

Attachments:

Figure 1 - Site Location Map
Figure 2 – WCC-3D Location Map

Appendix A – Boring and Well Construction Log for WCC-3D
Appendix B - County of Los Angeles Well Destruction Permit
Appendix C – Groundwater Sampling Data Sheet
Appendix D – Laboratory Reports & Chain of Custody
Appendix E –Well Decommissioning Report

FIGURES



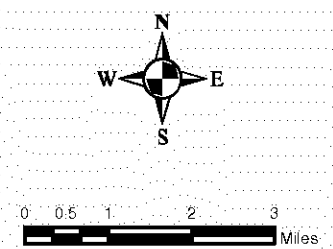
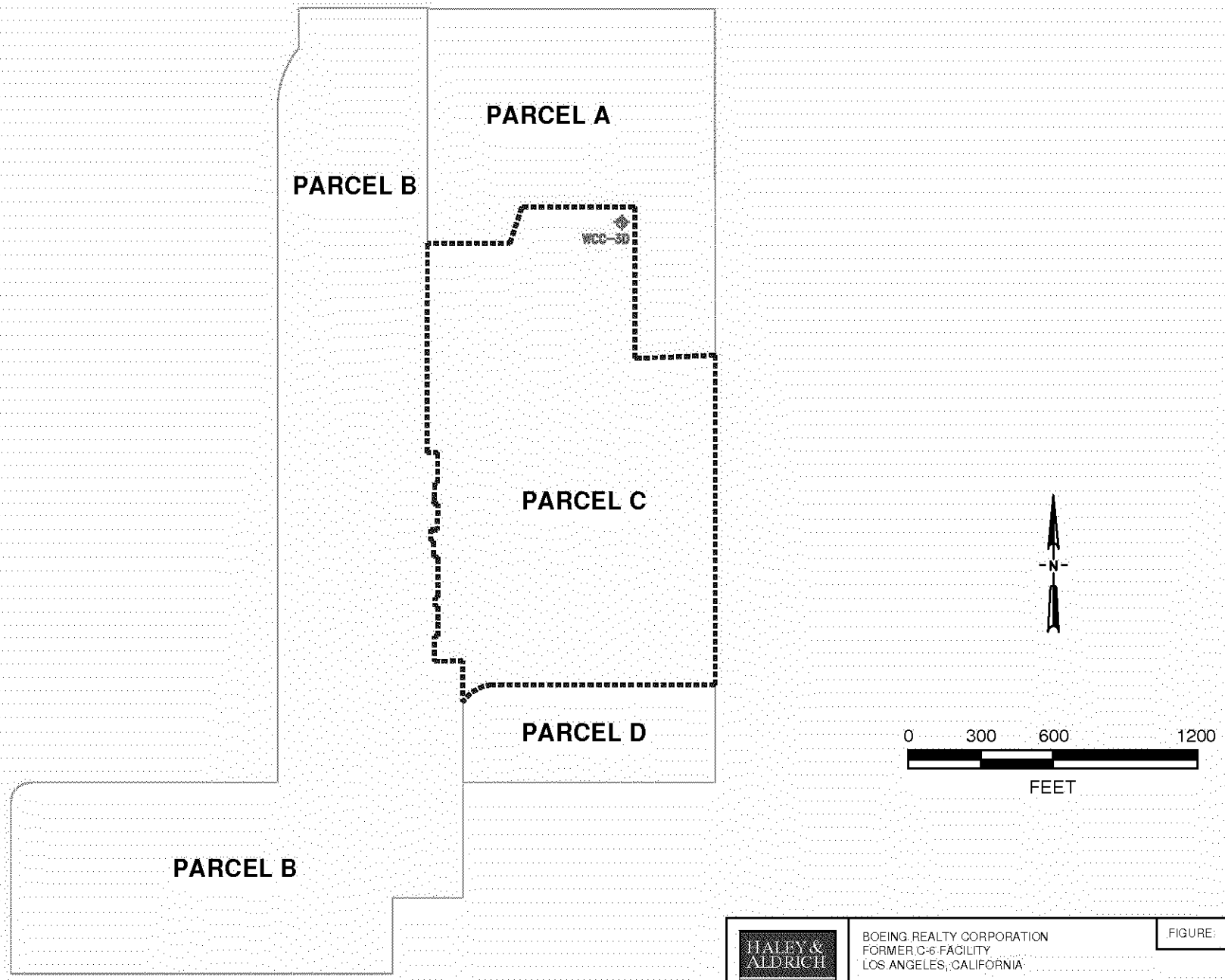


Figure 1
Site Location Map

Boeing Realty Corporation
Former C-6 Facility
Los Angeles, California

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

Scale : As Shown	QA/QC :	Project : 27285
Drawn : DFM	Reviewed : SPZ	Date : 1 March 2002



SOURCE: Kennedy/Jenks Consultants, Sampling & Analysis Plan, Boeing Realty Corporation's C-6 Facility-Parcel C, Los Angeles, California, 16 August, 2000

G:\PROJECTS\ENVIRONMENTAL\BOEING\C-6\WELL DEMO\WCC-3D\FIGURE 2

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

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

FIGURE: 2

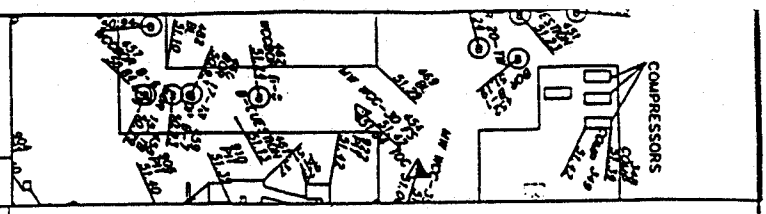
PARCEL C SITE PLAN
GROUNDWATER MONITORING WELL
WCC-3D LOCATION

SCALE: AS SHOWN		PROJECT: 27285
DRAWN: SAL	REVIEWED: RLM	DATE: 28 JUNE 2002

Appendix A

Boring and Well Construction Log

INTEGRATED
Environmental Services, Inc.



Project Name: McDonnell Douglas C-6 Facility	
Location: Los Angeles, CA	
Site Id: WCC-03D	Elevation: 51.42'
Datum: Mean Sea Level	Total Depth: 140.00'
X Coordinate: 12583.61	Y Coordinate: 13265.87
Date Started: 06/23/89	Date Completed: 06/27/89
Consulting Firm: WOODWARD-CLYDE	
Contractor: BEYLIK DRILLING	
Logged By: H. REYES	Certified By: M. RAZMDJOO

Annular Fill:
type: Cement fm: 0.00' to: 5.00'
type: Grout fm: 5.00' to: 106.00'
type: Bentonite Pellets fm: 106.00' to: 115.00'

Screens:
type: Slotted size: 0.010in dia: 4.00in fm: 120.00' to: 140.00'

Blank Casing:
type: PVC dia: 4.00in fm: 0.0' to: 120.00'

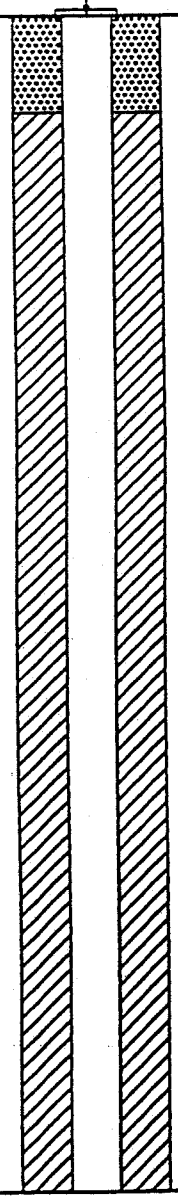
Conductor Casing:
type: dia: 0.00in fm: 0.00' to: 0.00'

Drilling Method: HOLLOW-STEM AUGER

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description
					AS/CO		6-inch asphalt and concrete cover. 6-inch base material.
					SM		Dark yellowish-brown, fine grained SILTY SAND (SM).
10							Dark yellowish-brown, fine grained SILTY SAND (SM) with some clay.
20							Becomes olive brown, fine to medium grained SILTY SAND (SM).
30							Becomes clayey with some calcareous nodules.
							Olive brown, fine to medium grained SILTY SAND (SM) with trace of clay, some calcareous nodules.
40					CL		Olive brown SILTY CLAY (CL), with coarse grained sand.
50					SM		Olive brown, fine grained SAND (SM) with some coarse grained sand and abundant shell fragments.

Well Construction

MP. EL. 51.18



Project Name: McDonnell Douglas C-6 Facility | Site Id: WCC-03D

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
70							More coarse grained sand.	
					SP		Olive brown, medium grained SAND (SP).	
							Olive brown, fine to medium grained SAND (SW) with abundant shell fragments.	
80							Lense of dark yellowish-brown, coarse grained SAND (SP), slight chemical odor - drilling mud foamed up.	
90							Lens of dark yellowish-brown coarse grained SAND (SP).	
100							Grayish brown, fine to medium grained SAND (SW) with abundant shell fragments.	
110					CL		Dark yellowish-brown, SILTY CLAY (CL).	
120					SM		Olive brown, fine grained SILTY SAND (SM).	
					ML		Olive brown SANDY SILT (ML), micaceous.	
					SM		Olive brown, fine to medium grained SILTY SAND (SM).	
					CH		Olive brown CLAY (CH).	
					SP		Olive brown, medium grained SAND (SP).	
130							Hard reddish-brown SANDSTONE.	
							Hard, light yellowish-brown to bluish-gray, SILTY CLAYSTONE.	
140							Bottom of boring at 140 feet.	
							Initial drilling and sampling was completed on 23 and 25 June 1989. Boring was enlarged and well was constructed on 27 June 1989.	

Appendix B

County of Los Angeles Well Destruction Permit

SERVICE APPLICATION AND FEE COLLECTION
COUNTY OF LOS ANGELES - DEPARTMENT OF HEALTH SERVICES
PUBLIC HEALTH PROGRAMS - ENVIRONMENTAL HEALTH

SERVICE REQUEST APPLICATION

INSTRUCTIONS

1. Check the TYPE OF SERVICE requested and attach the required non-refundable fee to the application. Make money order or check payable to LOS ANGELES COUNTY TREASURER, DO NOT SEND CASH. This application is nontransferable.

FEE REQUIRED*		TYPE OF SERVICE
816.00	☒	MONITORING WELL CONSTRUCTION/DESTRUCTION
	☐	WELL CONSTRUCTION, RENOVATION OR DESTRUCTION PERMIT Complete and attach a Well Permit Application
	☐	PRIVATE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT
	☐	PRIVATE SEWAGE DISPOSAL SYSTEM RENOVATION/EXPANSION
	☐	INSPECTION OF MOUNTAIN CABIN SITE as required by the United States Forest Service
	☐	INSPECTION OF EXISTING PRIVATE SEWAGE SYSTEM as required by FHA/VA
	☐	WATER SUPPLY TEST AND CERTIFICATION as required by U.S. Department of Agriculture

2. Check with Contact Office stamped below for requirements or information.
3. Complete the required information or deliver the completed application, money order or check with the forms indicated.

to: County of Los Angeles
Department of Health Services
Public Health Programs
Environmental Health
2525 Corporate Place
Monterey Park, Ca 91754
(213) 881-4147

* Refer to Schedule of Fees for current fiscal year.

NOTE: FIELD PERSONNEL CANNOT ACCEPT FEES.

4. Phone Contact Office noted below, after you have received your receipt, to request an inspection.

1903 Normandie Avenue Los Angeles, CA 5/30/02
Service/Job Location Address — Date

Harry Alexander, Inc. 9040 Trade Pl. Santee, CA 92071
Owner/Applicant's Name — Address — Phone No. 619-210-7200

We Drill Drilling 1010 E. Ketch Ave Lemoore, CA 93245
Contractor's Name — Address — Phone No.

Co. Engineer Plan Check No._____ Tract No. _____ Lot No. _____ No. Bedrooms ____
(Complete line above for Private Sewage Disposal System Construction or Renovation Application)

CONTACT OFFICE

DEPARTMENT STAMP

CK #09405 Req # 3402.68 6/6/02

ENTERED

Printed on recycled materials.

Appendix C

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: Boeing - Compton - GW Sampling
Project No.: R EM 2303
Well Identification: WCC-3D
Measurement Point Description:
Date: 3/21/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp):

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
ND	64.16	139.45	75.29	NA	49	147

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	(4)	6	0.02	0.16	(0.65)	1.47

Field Equipment: SEE DAILY LOG
Purge Method:
Well Condition: GOOD

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
14:37	0.5	24.5	0.88	74.02	7.44	23.13	2.8	0.822	0.10	-82	clear
14:54	1	49	1.4	74.12	7.46	23.11	3.2	0.804	0.00	-90	clear
15:11	1.5	73.5	1.4	74.15	7.47	23.14	3.3	0.803	0.00	-91	clear
15:28	2	98	1.4	74.05	7.48	23.13	3.6	0.804	0.00	-90	clear
15:45	2.5	122.5	1.4	74.28	7.48	23.15	3.7	0.805	0.00	-89	clear
16:02	3	147	1.4	74.22	7.48	23.08	3.9	0.805	0.00	-88	clear

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
14:09	16:02	1.3	147	3	79.22	74.22	16:05	WCC_3D_032102_1605

Notes: Soft well bottom
PID = 0.2 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

Appendix D

Laboratory Report & Chain-of-Custody

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

May 21, 2002

STL LOT NUMBER: E2C210335r
NELAP Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002

Scott Ek
Tait Environmental
701 Park Center Drive
Santa Ana, CA 92705

Dear Mr. Ek:

This report contains the analytical results for the seven samples received under chain of custody by STL Los Angeles on March 21, 2002. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

This report has been revised to include the 8260 compound 1,1-DCE that was omitted from the original report. All applicable quality control procedures met method-specified acceptance criteria. 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.

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

Page 1 of 000030 total pages in this report.

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

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0003249

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: TAIT ENVIRONMENTAL MGMT	Project Manager: SCOTT E. EK	Date: 3/21/02	Chain of Custody Number: 050486
Address: 701 N. PARKCENTER DR	Telephone Number (Area Code)/Fax Number: (714) 560-8200 / (714) 560-8235	Lab Number: E2C210335	Page 1 of 1
City: SANTA ANA; State: CA; Zip Code: 92705	Site Contact:	Lab Contact: D. SUZUKI	
Project Name and Location (State): BOEING - TORRANCE	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): VOC (8260B)	Special Instructions/ Conditions of Receipt
EB-TAIT032102_0001	3/21/02	8:45		X							3				X	
MW_09_032102_0945	3/21/02	9:45		X							3				X	
WCC_5S_032102_1055	3/21/02	10:55		X							3				X	
TMW_16_032102_1205	3/21/02	12:05		X							3				X	
TMW_10_032102_1320	3/21/02	13:20		X							3				X	
WCC_3D_032102_1605	3/21/02	16:05		X							3				X	
TB-TAIT032102_0001	3/21/02			X							3				X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] 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 [X] Other STANDARD

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Nutya Chandran	3/21/02	17:53	1. Received By: [signature]	3/21/02	17:53
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments:

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

BOE-C6-0003250

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 3/21/02

Quantims Lot #: E2C210335
Quote #: 40334
Client Name: TAIT
Project: Boeing - Torrance
Received by: [illegible]
Date/Time Received: 3/21/02 11:53
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 ..... TQR 3/21/02
Custody Seal #(s): _____ [X] No Seal # .....
Sample Container(s): [X] STL-LA [ ] Client [ ] N/A .....
Temperature(s) (Cooler/blank) in °C: 3.6 Correction factor -0.1°C (Corrected Temp.) 3.5°C
Thermometer Used : ID: B [X] IR (Infra-red) [ ] Digital (Probe) .....
Samples: [X] Intact [ ] Broken [ ] Other _____ .....
Anomalies: [X] No [ ] Yes (See Clouseau) .....
Labeled by ..AS.....
Labeling checked by ..[illegible].....

Turn Around Time: [ ] RUSH-24HR [ ] 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) : none

_____ .....
_____ .....
_____ .....
_____ .....

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

Fraction	1->7										PH
VOAh /*	3										N/A

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: [illegible] 3/21/02 REVIEWED BY/DATE: [illegible] 3/22/02

PRC Ver. 6 081401 XRF QANACA01\N:\Precisel\Sample Control Forms

000003

BOE-C6-0003251

SEVERN
TRENT
SERVICES

Analytical Report

000004

EXECUTIVE SUMMARY - Detection Highlights

E2C210335

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
EB_TAIT032102_0001 03/21/02 08:45 001				
Acetone	14	10	ug/L	SW846 8260B
XMW_09_032102_0945 03/21/02 09:45 002				
Chlorobenzene	260	25	ug/L	SW846 8260B
Chloroform	1400	25	ug/L	SW846 8260B
Tetrachloroethene	55	25	ug/L	SW846 8260B
Trichloroethene	30	25	ug/L	SW846 8260B
WCC_55_032102_1055 03/21/02 10:55 003				
Chlorobenzene	0.42 J	1.0	ug/L	SW846 8260B
Chloroform	0.76 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.42 J	1.0	ug/L	SW846 8260B
Toluene	5.5	1.0	ug/L	SW846 8260B
Trichloroethene	1.8	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	0.61 J	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	6.2	1.0	ug/L	SW846 8260B
TMW_16_032102_1205 03/21/02 12:05 004				
Acetone	4.7 J	10	ug/L	SW846 8260B
Chloroform	0.47 J	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.35 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.94 J	1.0	ug/L	SW846 8260B
Toluene	1.1	1.0	ug/L	SW846 8260B
Trichloroethene	1.6	1.0	ug/L	SW846 8260B
TMW_10_032102_1320 03/21/02 13:20 005				
Dichlorodifluoromethane	1.7	1.0	ug/L	SW846 8260B
Chloroform	3.0	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.88 J	1.0	ug/L	SW846 8260B
Toluene	5.5	1.0	ug/L	SW846 8260B
Trichloroethene	3.7	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	1.2 J	2.0	ug/L	SW846 8260B
WCC_3D_032102_1605 03/21/02 16:05 006				
Acetone	7.1 J	10	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.7	1.0	ug/L	SW846 8260B
Toluene	3.0	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	6.7	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E2C210335

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WCC_3D_032102_1605 03/21/02 16:05 006				
Trichloroethene	1.8	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	8.7	1.0	ug/L	SW846 8260B
TB_TAIT032102_0001 03/21/02 007				
Acetone	7.2 J	10	ug/L	SW846 8260B

METHODS SUMMARY

E2C210335

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

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

SAMPLE SUMMARY

E2C210335

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EWRFE	001	EB_TAIT032102_0001	03/21/02	08:45
EWRFF	002	XMW_09_032102_0945	03/21/02	09:45
EWRFG	003	WCC_55_032102_1055	03/21/02	10:55
EWRFH	004	TMW_16_032102_1205	03/21/02	12:05
EWRFJ	005	TMW_10_032102_1320	03/21/02	13:20
EWRFK	006	WCC_3D_032102_1605	03/21/02	16:05
EWRFL	007	TB_TAIT032102_0001	03/21/02	

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.

TAIT ENVIRONMENTAL

Client Sample ID: EB_TAIT032102_0001

GC/MS Volatiles

Lot-Sample #...: E2C210335-001 **Work Order #...:** EWRFE1AA **Matrix.....:** WATER
Date Sampled...: 03/21/02 08:45 **Date Received..:** 03/21/02 17:53
Prep Date.....: 03/21/02 **Analysis Date..:** 03/22/02
Prep Batch #...: 2081279 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**14**	**10**	**ug/L**
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
2-Butanone	ND	5.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Iodomethane	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L

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TAIT ENVIRONMENTAL

Client Sample ID: EB_TAIT032102_0001

GC/MS Volatiles

Lot-Sample #...: E2C210335-001 Work Order #...: EWRFE1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Vinyl acetate	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	99	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: XMW_09_032102_0945

GC/MS Volatiles

Lot-Sample #...: E2C210335-002 Work Order #...: EWRFF1AA Matrix.....: WATER
Date Sampled...: 03/21/02 09:45 Date Received..: 03/21/02 17:53
Prep Date.....: 03/21/02 Analysis Date..: 03/22/02
Prep Batch #...: 2081279 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	250	ug/L
Benzene	ND	25	ug/L
Bromobenzene	ND	25	ug/L
Bromochloromethane	ND	25	ug/L
Bromoform	ND	25	ug/L
Bromomethane	ND	50	ug/L
Carbon tetrachloride	ND	12	ug/L
2-Butanone	ND	120	ug/L
n-Butylbenzene	ND	25	ug/L
sec-Butylbenzene	ND	25	ug/L
tert-Butylbenzene	ND	25	ug/L
Carbon disulfide	ND	25	ug/L
Chlorobenzene	**260**	**25**	**ug/L**
Dibromochloromethane	ND	25	ug/L
Dichlorodifluoromethane	ND	25	ug/L
Bromodichloromethane	ND	25	ug/L
1,2-Dichloroethane	ND	12	ug/L
Chloroethane	ND	50	ug/L
Chloroform	**1400**	**25**	**ug/L**
Chloromethane	ND	50	ug/L
2-Chlorotoluene	ND	25	ug/L
4-Chlorotoluene	ND	25	ug/L
1,2-Dibromo-3-chloro-propane	ND	50	ug/L
1,2-Dibromoethane	ND	25	ug/L
Iodomethane	ND	50	ug/L
1,2-Dichlorobenzene	ND	25	ug/L
1,3-Dichlorobenzene	ND	25	ug/L
1,4-Dichlorobenzene	ND	25	ug/L
1,1-Dichloroethane	ND	25	ug/L
cis-1,2-Dichloroethene	ND	25	ug/L
trans-1,2-Dichloroethene	ND	25	ug/L
Vinyl chloride	ND	12	ug/L
2,2-Dichloropropane	ND	25	ug/L
1,1-Dichloropropene	ND	25	ug/L
Ethylbenzene	ND	25	ug/L
Hexachlorobutadiene	ND	25	ug/L
2-Hexanone	ND	120	ug/L
Isopropylbenzene	ND	25	ug/L
p-Isopropyltoluene	ND	25	ug/L

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TAIT ENVIRONMENTAL

Client Sample ID: XMW_09_032102_0945

GC/MS Volatiles

Lot-Sample #...: E2C210335-002 Work Order #...: EWRFF1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	25	ug/L
4-Methyl-2-pentanone	ND	120	ug/L
Methyl tert-butyl ether	ND	25	ug/L
n-Propylbenzene	ND	25	ug/L
Styrene	ND	25	ug/L
1,1,1,2-Tetrachloroethane	ND	25	ug/L
1,1,2,2-Tetrachloroethane	ND	25	ug/L
Tetrachloroethene	**55**	**25**	**ug/L**
Toluene	ND	25	ug/L
1,2,3-Trichlorobenzene	ND	25	ug/L
1,2,4-Trichloro-benzene	ND	25	ug/L
1,1,1-Trichloroethane	ND	25	ug/L
1,1,2-Trichloroethane	ND	25	ug/L
Trichloroethene	**30**	**25**	**ug/L**
Trichlorofluoromethane	ND	50	ug/L
1,2,3-Trichloropropane	ND	25	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	25	ug/L
1,2,4-Trimethylbenzene	ND	25	ug/L
1,3,5-Trimethylbenzene	ND	25	ug/L
Xylenes (total)	ND	25	ug/L
Acrolein	ND	500	ug/L
Acrylonitrile	ND	500	ug/L
Vinyl acetate	ND	120	ug/L
Tetrahydrofuran	ND	250	ug/L
2-Chloroethyl vinyl ether	ND	120	ug/L
1,1-Dichloroethene	ND	25	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 130)
1,2-Dichloroethane-d4	103	(65 - 135)
Toluene-d8	102	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: WCC_55_032102_1055

GC/MS Volatiles

Lot-Sample #...: E2C210335-003 **Work Order #...:** EWRFG1AA **Matrix.....:** WATER
Date Sampled...: 03/21/02 10:55 **Date Received..:** 03/21/02 17:53
Prep Date.....: 03/21/02 **Analysis Date..:** 03/22/02
Prep Batch #...: 2081279 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
2-Butanone	ND	5.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Chlorobenzene	**0.42 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	**0.76 J**	**1.0**	**ug/L**
Chloromethane	ND	2.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Iodomethane	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L

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TAIT ENVIRONMENTAL

Client Sample ID: WCC_55_032102_1055

GC/MS Volatiles

Lot-Sample #...: E2C210335-003 Work Order #...: EWRFG1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	**0.42 J**	**1.0**	**ug/L**
Toluene	**5.5**	**1.0**	**ug/L**
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	**1.8**	**1.0**	**ug/L**
Trichlorofluoromethane	**0.61 J**	**2.0**	**ug/L**
1,2,3-Trichloropropane	ND	1.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Vinyl acetate	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
1,1-Dichloroethene	**6.2**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_16_032102_1205

GC/MS Volatiles

Lot-Sample #...: E2C210335-004 Work Order #...: EWRFH1AA Matrix.....: WATER
Date Sampled...: 03/21/02 12:05 Date Received..: 03/21/02 17:53
Prep Date.....: 03/21/02 Analysis Date..: 03/22/02
Prep Batch #...: 2081279 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**4.7 J**	**10**	**ug/L**
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
2-Butanone	ND	5.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	**0.47 J**	**1.0**	**ug/L**
Chloromethane	ND	2.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Iodomethane	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	**0.35 J**	**1.0**	**ug/L**
p-Isopropyltoluene	ND	1.0	ug/L

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_16_032102_1205

GC/MS Volatiles

Lot-Sample #...: E2C210335-004 Work Order #...: EWRFH1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	**0.94 J**	**1.0**	**ug/L**
Toluene	**1.1**	**1.0**	**ug/L**
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	**1.6**	**1.0**	**ug/L**
Trichlorofluoromethane	ND	2.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Vinyl acetate	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	102	(65 - 135)
Toluene-d8	98	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TMW_10_032102_1320

GC/MS Volatiles

Lot-Sample #...: E2C210335-005 **Work Order #...:** EWRFJ1AA **Matrix.....:** WATER
Date Sampled...: 03/21/02 13:20 **Date Received..:** 03/21/02 17:53
Prep Date.....: 03/21/02 **Analysis Date..:** 03/22/02
Prep Batch #...: 2081279 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
2-Butanone	ND	5.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Dichlorodifluoromethane	**1.7**	**1.0**	**ug/L**
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	**3.0**	**1.0**	**ug/L**
Chloromethane	ND	2.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Iodomethane	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_10_032102_1320

GC/MS Volatiles

Lot-Sample #...: E2C210335-005 **Work Order #...:** EWRFJ1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	**0.88 J**	**1.0**	**ug/L**
Toluene	**5.5**	**1.0**	**ug/L**
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	**3.7**	**1.0**	**ug/L**
Trichlorofluoromethane	**1.2 J**	**2.0**	**ug/L**
1,2,3-Trichloropropane	ND	1.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Vinyl acetate	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d4	104	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: WCC_3D_032102_1605

GC/MS Volatiles

Lot-Sample #...: E2C210335-006 Work Order #...: EWRFK1AA Matrix.....: WATER
Date Sampled...: 03/21/02 16:05 Date Received..: 03/21/02 17:53
Prep Date.....: 03/21/02 Analysis Date..: 03/22/02
Prep Batch #...: 2081279 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**7.1 J**	**10**	**ug/L**
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
2-Butanone	ND	5.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Iodomethane	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	**1.7**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L

(Continued on next page)

TAIT ENVIRONMENTAL

Client Sample ID: WCC_3D_032102_1605

GC/MS Volatiles

Lot-Sample #...: E2C210335-006 **Work Order #...:** EWRFK1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	**3.0**	**1.0**	**ug/L**
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	**6.7**	**1.0**	**ug/L**
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	**1.8**	**1.0**	**ug/L**
Trichlorofluoromethane	ND	2.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Vinyl acetate	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
1,1-Dichloroethene	**8.7**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 130)
1,2-Dichloroethane-d4	103	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TB_TAIT032102_0001

GC/MS Volatiles

Lot-Sample #...: E2C210335-007 Work Order #...: EWRFL1AA Matrix.....: WATER
Date Sampled...: 03/21/02 Date Received..: 03/21/02 17:53
Prep Date.....: 03/21/02 Analysis Date..: 03/22/02
Prep Batch #...: 2081279 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**7.2 J**	**10**	**ug/L**
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
2-Butanone	ND	5.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Iodomethane	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L

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TAIT ENVIRONMENTAL

Client Sample ID: TB_TAIT032102_0001

GC/MS Volatiles

Lot-Sample #...: E2C210335-007 Work Order #...: EWRFL1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Vinyl acetate	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	102	(65 - 135)
Toluene-d8	99	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

SEVERN
TRENT
SERVICES

QA/QC

000023

QC DATA ASSOCIATION SUMMARY

E2C210335

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		2081279	2081135
002	WATER	SW846 8260B		2081279	2081135
003	WATER	SW846 8260B		2081279	2081135
004	WATER	SW846 8260B		2081279	2081135
005	WATER	SW846 8260B		2081279	2081135
006	WATER	SW846 8260B		2081279	2081135
007	WATER	SW846 8260B		2081279	2081135

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2C210335 **Work Order #...:** EWR6L1AA **Matrix.....:** WATER
MB Lot-Sample #: E2C220000-279

Prep Date.....: 03/21/02
Analysis Date..: 03/21/02 **Prep Batch #...:** 2081279

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2C210335 Work Order #...: EWR6L1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2C210335 Work Order #...: EWR6L1AC Matrix.....: WATER
LCS Lot-Sample#: E2C220000-279
Prep Date.....: 03/21/02 Analysis Date..: 03/21/02
Prep Batch #...: 2081279

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**109**	**(75 - 120)**	**SW846 8260B**
Chlorobenzene	**108**	**(75 - 120)**	**SW846 8260B**
Toluene	**111**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**105**	**(70 - 130)**	**SW846 8260B**
1,1-Dichloroethene	**104**	**(70 - 140)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	108	(80 - 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 #...: E2C210335 Work Order #...: EWR6L1AC Matrix.....: WATER
LCS Lot-Sample#: E2C220000-279
Prep Date.....: 03/21/02 Analysis Date..: 03/21/02
Prep Batch #...: 2081279

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**10.9**	**ug/L**	**109**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.8**	**ug/L**	**108**	**SW846 8260B**
Toluene	**10.0**	**11.1**	**ug/L**	**111**	**SW846 8260B**
Trichloroethene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**10.4**	**ug/L**	**104**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	108	(80 - 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 #...: E2C210335 **Work Order #...:** EWRFT1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: E2C210336-004 EWRFT1AE-MSD
Date Sampled...: 03/21/02 11:15 **Date Received..:** 03/21/02 20:00
Prep Date.....: 03/21/02 **Analysis Date..:** 03/22/02
Prep Batch #...: 2081279

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**103**	**(75 - 120)**			**SW846 8260B**
	106	**(75 - 120)**	**2.5**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**103**	**(75 - 120)**			**SW846 8260B**
	106	**(75 - 120)**	**2.4**	**(0-25)**	**SW846 8260B**
Toluene	**103**	**(75 - 125)**			**SW846 8260B**
	107	**(75 - 125)**	**4.3**	**(0-25)**	**SW846 8260B**
Trichloroethene	**102**	**(70 - 130)**			**SW846 8260B**
	100	**(70 - 130)**	**0.99**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**98**	**(70 - 140)**			**SW846 8260B**
	99	**(70 - 140)**	**1.4**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(75 - 130)
	106	(75 - 130)
1,2-Dichloroethane-d4	109	(65 - 135)
	104	(65 - 135)
Toluene-d8	104	(80 - 130)
	106	(80 - 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 #...: E2C210335 Work Order #...: EWRFT1AD-MS Matrix.....: WATER
MS Lot-Sample #: E2C210336-004 EWRFT1AE-MSD
Date Sampled...: 03/21/02 11:15 Date Received..: 03/21/02 20:00
Prep Date.....: 03/21/02 Analysis Date..: 03/22/02
Prep Batch #...: 2081279

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.6	ug/L	106	2.5	SW846 8260B
Chlorobenzene	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.6	ug/L	106	2.4	SW846 8260B
Toluene	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.7	ug/L	107	4.3	SW846 8260B
Trichloroethene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.0	ug/L	100	0.99	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.75	ug/L	98		SW846 8260B
	ND	10.0	9.89	ug/L	99	1.4	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(75 - 130)
	106	(75 - 130)
1,2-Dichloroethane-d4	109	(65 - 135)
	104	(65 - 135)
Toluene-d8	104	(80 - 130)
	106	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT SERVICES

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

Tel: 714 258 8610
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June 12, 2002

STL LOT NUMBER: E2F010157
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 June 1, 2002. These samples are associated with your BRC former C-6 facility, Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria. 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 PAH by 8310 analysis was performed by Del Mar Analytical. Please 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

Page 1 of 000094 total pages in this report.

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ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0003279

HALEY & ALDRICH

2601 Saturn Street, Suite 101
Brea, CA 92821
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CHAIN OF CUSTODY FORM

№ 0704

E2F010157

Project Name/Address: Boeing C-6, 19503 Normandie Avenue, Los Angeles, CA

Project /PO Number:

Project Manager: Rich Farson

Phone Number: (

Sampled by (signature):

Fax Number:

Lab Name: STL

Lab Address:

Analysis Required

Sample Identification	Lab ID No.	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	8260	8015	6010	8270					Special Instructions
DW-1		Liquid	40ml VOA	3	5/31/02	1745	HCl	X								
SP-37		Soil Liquid	9oz Jar	1	5/31/02	1815	—	X	X	X	X					
SP-36		Soil	9oz Jar	1	5/31/02	1830	—	X	X	X	X					
SP-38		Soil	9oz Jar	1	5/31/02	1708	—	X	X	X	X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time (Check)
	6/1/02 1216		6/1/02 12:16	24 Hours ___ 5 Days X
Relinquished By:	Date/Time:	Received By:	Date/Time:	48 Hours ___ 10 Days ___
				72 Hours ___ Other ___
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity (Check):
				On Ice ✓ Intact ___

000002

BOE-C6-0003280

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 6/01/02

Quantims Lot #: E2F 010157
Quote #: 42295
Client Name: Haley & Aldrich
Project: Boeing C-6
Received by: [signature]
Date/Time Received: 6/01/02 12:16
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 ..... [initials] 6/01/02
Custody Seal #(s): [X] No Seal # .....
Sample Container(s): [ ] STL-LA [X] Client [ ] N/A .....
Temperature(s) (Cooler/blank) in °C: 5.6° Correction factor -0.1°C (Corrected Temp.) 5.5°C
Thermometer Used : ID: B [X] IR (Infra-red) [ ] Digital (Probe) .....
Samples: [X] Intact [ ] Broken [ ] Other .....
Anomalies: [X] No [ ] Yes (See Clouseau) .....
Labeled by [initials] .....
Labeling checked by .....

****

Turn Around Time: [ ] RUSH-24HR [ ] 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 ~~WSAC~~ Delmar .....

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

Fraction	1	2->4									PH
VOAh /*	3	—									N/A
8 or 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] 6/01/02 REVIEWED BY/DATE: [signature] 6/03/02

PRC Ver. 6 081401 KRF QANACA01\N:\Precis\Sample Control Forms

000003

SEVERN
TRENT
SERVICES

Analytical Report

000004

EXECUTIVE SUMMARY - Detection Highlights

E2F010157

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DW_1 05/31/02 17:45 001				
1,1-Dichloroethene	0.84 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	2.6	1.0	ug/L	SW846 8260B
Acetone	25	10	ug/L	SW846 8260B
Chloroform	1.5	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	1.3	1.0	ug/L	SW846 8260B
Trichloroethene	0.55 J	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	14	5.0	ug/L	SW846 8260B
Toluene	8.2	1.0	ug/L	SW846 8260B
Chlorobenzene	4.6	1.0	ug/L	SW846 8260B
Xylenes (total)	0.86 J	1.0	ug/L	SW846 8260B
Bromoform	0.69 J	1.0	ug/L	SW846 8260B
SP_37 05/31/02 18:15 002				
C20-C23	2.1 J	10	mg/kg	SW846 8015B
C24-C27	2.7 J	10	mg/kg	SW846 8015B
C28-C31	3.9 J	10	mg/kg	SW846 8015B
C32-C35	11	10	mg/kg	SW846 8015B
C36-C39	7.6 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	28	10	mg/kg	SW846 8015B
Mercury	0.055 B	0.10	mg/kg	SW846 7471A
Aluminum	17300	20.0	mg/kg	SW846 6010B
Arsenic	4.6	1.0	mg/kg	SW846 6010B
Barium	144 J	2.0	mg/kg	SW846 6010B
Cadmium	0.32 B,J	0.50	mg/kg	SW846 6010B
Chromium	26.0	1.0	mg/kg	SW846 6010B
Beryllium	0.55	0.50	mg/kg	SW846 6010B
Lead	5.5	0.50	mg/kg	SW846 6010B
Selenium	0.82	0.50	mg/kg	SW846 6010B
Cobalt	8.6	5.0	mg/kg	SW846 6010B
Copper	23.2	2.5	mg/kg	SW846 6010B
Molybdenum	0.77 B,J	4.0	mg/kg	SW846 6010B
Nickel	17.1	4.0	mg/kg	SW846 6010B
Vanadium	46.8	5.0	mg/kg	SW846 6010B
Zinc	57.9	2.0	mg/kg	SW846 6010B
SP_36 05/31/02 18:30 003				
C32-C35	2.6 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	2.6 J	10	mg/kg	SW846 8015B
Mercury	0.037 B	0.10	mg/kg	SW846 7471A
Aluminum	14100	20.0	mg/kg	SW846 6010B
Arsenic	4.1	1.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E2F010157

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_36 05/31/02 18:30 003				
Barium	97.6 J	2.0	mg/kg	SW846 6010B
Cadmium	0.18 B,J	0.50	mg/kg	SW846 6010B
Chromium	21.8	1.0	mg/kg	SW846 6010B
Beryllium	0.46 B	0.50	mg/kg	SW846 6010B
Lead	5.2	0.50	mg/kg	SW846 6010B
Cobalt	7.4	5.0	mg/kg	SW846 6010B
Copper	18.9	2.5	mg/kg	SW846 6010B
Molybdenum	0.85 B,J	4.0	mg/kg	SW846 6010B
Nickel	14.3	4.0	mg/kg	SW846 6010B
Vanadium	38.2	5.0	mg/kg	SW846 6010B
Zinc	48.5	2.0	mg/kg	SW846 6010B
SP_38 05/31/02 19:08 004				
C24-C27	2.1 J	10	mg/kg	SW846 8015B
C32-C35	3.1 J	10	mg/kg	SW846 8015B
C36-C39	2.4 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	7.6 J	10	mg/kg	SW846 8015B
C6-C8	5.1	1.0	mg/kg	SW846 8015B
Mercury	0.028 B	0.10	mg/kg	SW846 7471A
Aluminum	8510	20.0	mg/kg	SW846 6010B
Arsenic	3.0	1.0	mg/kg	SW846 6010B
Barium	63.0 J	2.0	mg/kg	SW846 6010B
Cadmium	0.11 B,J	0.50	mg/kg	SW846 6010B
Chromium	19.2	1.0	mg/kg	SW846 6010B
Beryllium	0.34 B	0.50	mg/kg	SW846 6010B
Lead	4.3	0.50	mg/kg	SW846 6010B
Selenium	0.61	0.50	mg/kg	SW846 6010B
Cobalt	4.2 B	5.0	mg/kg	SW846 6010B
Copper	10.1	2.5	mg/kg	SW846 6010B
Molybdenum	0.63 B,J	4.0	mg/kg	SW846 6010B
Nickel	9.1	4.0	mg/kg	SW846 6010B
Vanadium	21.7	5.0	mg/kg	SW846 6010B
Zinc	31.0	2.0	mg/kg	SW846 6010B
1,1-Dichloroethene	350	25	ug/kg	SW846 8260B
Acetone	210	120	ug/kg	SW846 8260B
1,1-Dichloroethane	12 J	25	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	13 J	25	ug/kg	SW846 8260B
2-Butanone	580	120	ug/kg	SW846 8260B
1,1,1-Trichloroethane	480	25	ug/kg	SW846 8260B
Trichloroethene	180	25	ug/kg	SW846 8260B
4-Methyl-2-pentanone	4000	120	ug/kg	SW846 8260B
Toluene	790	25	ug/kg	SW846 8260B

METHODS SUMMARY

E2F010157

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 Organics by GC/MS	SW846 8260B	SW846 5030B/826
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

E2F010157

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E2CDX	001	DW_1	05/31/02	17:45
E2CD2	002	SP_37	05/31/02	18:15
E2CD4	003	SP_36	05/31/02	18:30
E2CD5	004	SP_38	05/31/02	19:08

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: DW_1

GC/MS Volatiles

Lot-Sample #...: E2F010157-001 Work Order #...: E2CDX1AA Matrix.....: WATER
Date Sampled...: 05/31/02 17:45 Date Received..: 06/01/02 12:16 MS Run #.....: 2155243
Prep Date.....: 06/04/02 Analysis Date..: 06/04/02
Prep Batch #...: 2155393 Analysis Time..: 00:50
Dilution Factor: 1
Analyst ID.....: 004648 Instrument ID..: MSC
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	**0.84 J**	**1.0**	**ug/L**	**0.30**
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	**2.6**	**1.0**	**ug/L**	**0.50**
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	**25**	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**1.5**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	**1.3**	**1.0**	**ug/L**	**0.20**
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**0.55 J**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	**14**	**5.0**	**ug/L**	**3.0**
Toluene	**8.2**	**1.0**	**ug/L**	**0.30**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	**4.6**	**1.0**	**ug/L**	**0.30**
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	**0.86 J**	**1.0**	**ug/L**	**0.80**
Styrene	ND	1.0	ug/L	0.30

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: DW_1

GC/MS Volatiles

Lot-Sample #...: E2F010157-001 Work Order #...: E2CDX1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	**0.69 J**	**1.0**	**ug/L**	**0.30**
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d4	112	(65 - 135)
Toluene-d8	103	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

DW_1

GC/MS Volatiles

Lot-Sample #: E2F010157-001 **Work Order #:** E2CDX1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

HALEY & ALDRICH INC

Client Sample ID: SP_37

GC/MS Volatiles

Lot-Sample #...:	E2F010157-002	Work Order #...:	E2CD21AD	Matrix.....:	SOLID
Date Sampled...:	05/31/02 18:15	Date Received..:	06/01/02 12:16	MS Run #.....:	2156145
Prep Date.....:	06/04/02	Analysis Date..:	06/04/02		
Prep Batch #...:	2156314	Analysis Time..:	12:58		
Dilution Factor:	1				
Analyst ID.....:	064667	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: SP_37

GC/MS Volatiles

Lot-Sample #...: E2F010157-002 Work Order #...: E2CD21AD 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	90	(65 - 135)
1,2-Dichloroethane-d4	97	(60 - 140)
Toluene-d8	96	(70 - 130)

HALEY & ALDRICH INC

SP_37

GC/MS Volatiles

Lot-Sample #: E2F010157-002 **Work Order #:** E2CD21AD **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

HALEY & ALDRICH INC

Client Sample ID: SP_37

GC Volatiles

Lot-Sample #...:	E2F010157-002	Work Order #...:	E2CD21AC	Matrix.....:	SOLID
Date Sampled...:	05/31/02 18:15	Date Received..:	06/01/02 12:16	MS Run #.....:	2155201
Prep Date.....:	06/03/02	Analysis Date..:	06/03/02		
Prep Batch #...:	2155360	Analysis Time..:	13:21		
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)	66	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_37

GC Semivolatiles

Lot-Sample #...: E2F010157-002
Date Sampled...: 05/31/02 18:15
Prep Date.....: 06/03/02
Prep Batch #...: 2154442
Dilution Factor: 1
Analyst ID.....: 356074

Work Order #...: E2CD21AA
Date Received..: 06/01/02 12:16
Analysis Date..: 06/04/02
Analysis Time..: 16:07

Instrument ID..: G03
Method.....: SW846 8015B

Matrix.....: SOLID
MS Run #.....: 2154216

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	2.0
C10-C11	ND	10	mg/kg	2.0
C12-C13	ND	10	mg/kg	2.0
C14-C15	ND	10	mg/kg	2.0
C16-C17	ND	10	mg/kg	2.0
C18-C19	ND	10	mg/kg	2.0
C20-C23	2.1 J	10	mg/kg	2.0
C24-C27	2.7 J	10	mg/kg	2.0
C28-C31	3.9 J	10	mg/kg	2.0
C32-C35	11	10	mg/kg	2.0
C36-C39	7.6 J	10	mg/kg	2.0
C40+	ND	10	mg/kg	2.0
Total Carbon Chain Range	28	10	mg/kg	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	88	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_37

TOTAL Metals

Lot-Sample #...: E2F010157-002 Matrix.....: SOLID
Date Sampled...: 05/31/02 18:15 Date Received..: 06/01/02 12:16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2154211						
Aluminum	17300	20.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AE
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 8.0	
Arsenic	4.6	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AF
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AG
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.60	
Barium	144 J	2.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AH
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Cadmium	0.32 B,J	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AJ
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.060	
Chromium	26.0	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AK
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Beryllium	0.55	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AL
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.050	
Lead	5.5	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AM
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.30	
Selenium	0.82	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AN
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SP_37

TOTAL Metals

Lot-Sample #...: E2F010157-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AP
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Cobalt	8.6	5.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AQ
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Copper	23.2	2.5	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AR
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.40	
Molybdenum	0.77 B,J	4.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AT
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.30	
Nickel	17.1	4.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AU
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AV
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.80	
Vanadium	46.8	5.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AW
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Zinc	57.9	2.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD21AX
		Dilution Factor: 1		Analysis Time..: 12:01	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 1.0	
Prep Batch #...: 2154215						
Mercury	0.055 B	0.10	mg/kg	SW846 7471A	06/03-06/07/02	E2CD21A0
		Dilution Factor: 1		Analysis Time..: 09:24	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2154083	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: SP_36

GC/MS Volatiles

Lot-Sample #...:	E2F010157-003	**Work Order #...:**	E2CD41AF	**Matrix.....:**	SOLID
Date Sampled...:	05/31/02 18:30	**Date Received..:**	06/01/02 12:16	**MS Run #.....:**	2156145
Prep Date.....:	06/04/02	**Analysis Date..:**	06/04/02		
Prep Batch #...:	2156314	**Analysis Time..:**	13:28		
Dilution Factor:	1				
Analyst ID.....:	064667	**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: SP_36

GC/MS Volatiles

Lot-Sample #...: E2F010157-003 Work Order #...: E2CD41AF 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	103	(65 - 135)
1,2-Dichloroethane-d4	117	(60 - 140)
Toluene-d8	113	(70 - 130)

HALEY & ALDRICH INC

SP_36

GC/MS Volatiles

Lot-Sample #: E2F010157-003 **Work Order #:** E2CD41AF **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
unknown hydrocarbon		7.3	M	21.225	ug/kg

NOTE(S):

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

HALEY & ALDRICH INC

Client Sample ID: SP_36

GC Volatiles

Lot-Sample #...:	E2F010157-003	Work Order #...:	E2CD41AE	Matrix.....:	SOLID
Date Sampled...:	05/31/02 18:30	Date Received..:	06/01/02 12:16	MS Run #.....:	2155201
Prep Date.....:	06/03/02	Analysis Date..:	06/03/02		
Prep Batch #...:	2155360	Analysis Time..:	13:50		
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)	71	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_36

GC Semivolatiles

Lot-Sample #...:	E2F010157-003	Work Order #...:	E2CD41AD	Matrix.....:	SOLID
Date Sampled...:	05/31/02 18:30	Date Received..:	06/01/02 12:16	MS Run #.....:	2154216
Prep Date.....:	06/03/02	Analysis Date..:	06/04/02		
Prep Batch #...:	2154442	Analysis Time..:	16:47		
Dilution Factor:	1				
Analyst ID.....:	356074	Instrument ID..:	G03		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	2.0
C10-C11	ND	10	mg/kg	2.0
C12-C13	ND	10	mg/kg	2.0
C14-C15	ND	10	mg/kg	2.0
C16-C17	ND	10	mg/kg	2.0
C18-C19	ND	10	mg/kg	2.0
C20-C23	ND	10	mg/kg	2.0
C24-C27	ND	10	mg/kg	2.0
C28-C31	ND	10	mg/kg	2.0
C32-C35	**2.6 J**	**10**	**mg/kg**	**2.0**
C36-C39	ND	10	mg/kg	2.0
C40+	ND	10	mg/kg	2.0
Total Carbon Chain Range	**2.6 J**	**10**	**mg/kg**	**2.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	92	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_36

TOTAL Metals

Lot-Sample #...: E2F010157-003 Matrix.....: SOLID
Date Sampled...: 05/31/02 18:30 Date Received..: 06/01/02 12:16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2154211						
Aluminum	14100	20.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AG
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 8.0	
Arsenic	4.1	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AH
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AJ
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.60	
Barium	97.6 J	2.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AK
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Cadmium	0.18 B,J	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AL
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.060	
Chromium	21.8	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AM
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Beryllium	0.46 B	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AN
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.050	
Lead	5.2	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AP
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AQ
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SP_36

TOTAL Metals

Lot-Sample #...: E2F010157-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AR
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Cobalt	7.4	5.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AT
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Copper	18.9	2.5	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AU
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.40	
Molybdenum	0.85 B,J	4.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AV
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.30	
Nickel	14.3	4.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AW
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41AX
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.80	
Vanadium	38.2	5.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41A0
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Zinc	48.5	2.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD41A1
		Dilution Factor: 1		Analysis Time..: 12:09	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 1.0	
Prep Batch #...: 2154215						
Mercury	0.037 B	0.10	mg/kg	SW846 7471A	06/03-06/07/02	E2CD41AA
		Dilution Factor: 1		Analysis Time..: 09:26	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2154083	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: SP_38

GC/MS Volatiles

Lot-Sample #...: E2F010157-004 Work Order #...: E2CD51AF Matrix.....: SOLID
Date Sampled...: 05/31/02 19:08 Date Received..: 06/01/02 12:16 MS Run #.....: 2155104
Prep Date.....: 06/03/02 Analysis Date..: 06/03/02
Prep Batch #...: 2155254 Analysis Time..: 21:16
Dilution Factor: 5
Analyst ID.....: 064667 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	50	ug/kg	5.0
Chloromethane	ND	50	ug/kg	15
Vinyl chloride	ND	50	ug/kg	10
Bromomethane	ND	50	ug/kg	40
1,2-Dibromoethane	ND	25	ug/kg	15
Chloroethane	ND	50	ug/kg	10
Trichlorofluoromethane	ND	50	ug/kg	10
Acrolein	ND	500	ug/kg	150
1,1-Dichloroethene	**350**	**25**	**ug/kg**	**10**
Iodomethane	ND	50	ug/kg	50
Acetone	**210**	**120**	**ug/kg**	**75**
Carbon disulfide	ND	25	ug/kg	15
Methylene chloride	ND	25	ug/kg	15
trans-1,2-Dichloroethene	ND	25	ug/kg	10
Acrylonitrile	ND	500	ug/kg	150
Methyl tert-butyl ether	ND	25	ug/kg	5.0
1,1-Dichloroethane	**12 J**	**25**	**ug/kg**	**5.0**
Vinyl acetate	ND	50	ug/kg	25
2,2-Dichloropropane	ND	25	ug/kg	10
cis-1,2-Dichloroethene	**13 J**	**25**	**ug/kg**	**10**
2-Butanone	**580**	**120**	**ug/kg**	**75**
Bromochloromethane	ND	25	ug/kg	5.0
Chloroform	ND	25	ug/kg	5.0
Tetrahydrofuran	ND	100	ug/kg	10
1,1,1-Trichloroethane	**480**	**25**	**ug/kg**	**5.0**
1,1-Dichloropropene	ND	25	ug/kg	5.0
Carbon tetrachloride	ND	25	ug/kg	5.0
Benzene	ND	25	ug/kg	10
1,2-Dichloroethane	ND	25	ug/kg	5.0
Trichloroethene	**180**	**25**	**ug/kg**	**10**
1,2-Dichloropropane	ND	25	ug/kg	5.0
Bromodichloromethane	ND	25	ug/kg	5.0
2-Chloroethyl vinyl ether	ND	50	ug/kg	25
cis-1,3-Dichloropropene	ND	25	ug/kg	5.0
4-Methyl-2-pentanone	**4000**	**120**	**ug/kg**	**50**
Toluene	**790**	**25**	**ug/kg**	**10**
trans-1,3-Dichloropropene	ND	25	ug/kg	15

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: SP_38

GC/MS Volatiles

Lot-Sample #...: E2F010157-004 Work Order #...: E2CD51AF Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	25	ug/kg	15
Tetrachloroethene	ND	25	ug/kg	10
2-Hexanone	ND	120	ug/kg	50
Dibromochloromethane	ND	25	ug/kg	5.0
Chlorobenzene	ND	25	ug/kg	10
Ethylbenzene	ND	25	ug/kg	10
Xylenes (total)	ND	25	ug/kg	15
Styrene	ND	50	ug/kg	10
Bromoform	ND	25	ug/kg	15
Isopropylbenzene	ND	25	ug/kg	10
p-Isopropyltoluene	ND	25	ug/kg	10
Bromobenzene	ND	25	ug/kg	10
1,1,1,2-Tetrachloroethane	ND	25	ug/kg	15
1,1,2,2-Tetrachloroethane	ND	25	ug/kg	15
1,2,3-Trichloropropane	ND	25	ug/kg	15
n-Propylbenzene	ND	25	ug/kg	10
2-Chlorotoluene	ND	25	ug/kg	10
4-Chlorotoluene	ND	25	ug/kg	10
1,3,5-Trimethylbenzene	ND	25	ug/kg	10
tert-Butylbenzene	ND	25	ug/kg	10
1,2,4-Trimethylbenzene	ND	25	ug/kg	10
sec-Butylbenzene	ND	25	ug/kg	10
1,3-Dichlorobenzene	ND	25	ug/kg	10
1,4-Dichlorobenzene	ND	25	ug/kg	10
1,2-Dichlorobenzene	ND	25	ug/kg	10
n-Butylbenzene	ND	25	ug/kg	10
1,2-Dibromo-3-chloro-propane	ND	50	ug/kg	15
1,2,4-Trichloro-benzene	ND	25	ug/kg	10
Hexachlorobutadiene	ND	25	ug/kg	10
1,2,3-Trichlorobenzene	ND	25	ug/kg	10
t-Butanol	ND	500	ug/kg	250
Isopropyl ether	ND	50	ug/kg	5.0
Tert-amyl methyl ether	ND	50	ug/kg	10
Tert-butyl ethyl ether	ND	50	ug/kg	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(65 - 135)
1,2-Dichloroethane-d4	116	(60 - 140)
Toluene-d8	95	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

SP_38

GC/MS Volatiles

Lot-Sample #: E2F010157-004 **Work Order #:** E2CD51AF **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown alkane		110	M	7.941	ug/kg
Unknown cycloalkane		290	M	8.887	ug/kg
Unknown cycloalkane		67	M	9.38	ug/kg
Unknown alkane		32	M	10.346	ug/kg
Unknown cycloalkane		88	M	9.636	ug/kg
Unknown alkane		55	M	10.08	ug/kg
Unknown hydrocarbon		33	M	11.607	ug/kg

NOTE(S):

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

HALEY & ALDRICH INC

Client Sample ID: SP_38

GC Volatiles

Lot-Sample #...:	E2F010157-004	Work Order #...:	E2CD51AE	Matrix.....:	SOLID
Date Sampled...:	05/31/02 19:08	Date Received..:	06/01/02 12:16	MS Run #.....:	2155201
Prep Date.....:	06/03/02	Analysis Date..:	06/03/02		
Prep Batch #...:	2155360	Analysis Time..:	14:20		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G16		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	5.1	1.0	mg/kg	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	86	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_38

GC Semivolatiles

Lot-Sample #...:	E2F010157-004	Work Order #...:	E2CD51AD	Matrix.....:	SOLID
Date Sampled...:	05/31/02 19:08	Date Received..:	06/01/02 12:16	MS Run #.....:	2154216
Prep Date.....:	06/03/02	Analysis Date..:	06/04/02		
Prep Batch #...:	2154442	Analysis Time..:	17:27		
Dilution Factor:	1				
Analyst ID.....:	356074	Instrument ID..:	G03		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	2.0
C10-C11	ND	10	mg/kg	2.0
C12-C13	ND	10	mg/kg	2.0
C14-C15	ND	10	mg/kg	2.0
C16-C17	ND	10	mg/kg	2.0
C18-C19	ND	10	mg/kg	2.0
C20-C23	ND	10	mg/kg	2.0
C24-C27	**2.1 J**	**10**	**mg/kg**	**2.0**
C28-C31	ND	10	mg/kg	2.0
C32-C35	**3.1 J**	**10**	**mg/kg**	**2.0**
C36-C39	**2.4 J**	**10**	**mg/kg**	**2.0**
C40+	ND	10	mg/kg	2.0
Total Carbon Chain Range	**7.6 J**	**10**	**mg/kg**	**2.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	83	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_38

TOTAL Metals

Lot-Sample #...: E2F010157-004 Matrix.....: SOLID
Date Sampled...: 05/31/02 19:08 Date Received..: 06/01/02 12:16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2154211						
Aluminum	8510	20.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AG
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 8.0	
Arsenic	3.0	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AH
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AJ
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.60	
Barium	63.0 J	2.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AK
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Cadmium	0.11 B,J	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AL
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.060	
Chromium	19.2	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AM
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Beryllium	0.34 B	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AN
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.050	
Lead	4.3	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AP
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.30	
Selenium	0.61	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AQ
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.40	

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: SP_38

TOTAL Metals

Lot-Sample #...: E2F010157-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AR
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Cobalt	4.2 B	5.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AT
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Copper	10.1	2.5	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AU
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.40	
Molybdenum	0.63 B,J	4.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AV
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.30	
Nickel	9.1	4.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AW
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51AX
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.80	
Vanadium	21.7	5.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51A0
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 0.10	
Zinc	31.0	2.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CD51A1
		Dilution Factor: 1		Analysis Time..: 12:17	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2154078	MDL.....: 1.0	

Prep Batch #...: 2154215

Mercury	0.028 B	0.10	mg/kg	SW846 7471A	06/03-06/07/02	E2CD51AA
		Dilution Factor: 1		Analysis Time..: 09:28	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2154083	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
TRENT
SERVICES

QA/QC

QC DATA ASSOCIATION SUMMARY

E2F010157

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		2155393	2155243
002	SOLID	SW846 8015B		2154442	2154216
	SOLID	SW846 8015B		2155360	2155201
	SOLID	SW846 7471A		2154215	2154083
	SOLID	SW846 8260B		2156314	2156145
	SOLID	SW846 6010B		2154211	2154078
003	SOLID	SW846 8015B		2154442	2154216
	SOLID	SW846 8015B		2155360	2155201
	SOLID	SW846 7471A		2154215	2154083
	SOLID	SW846 8260B		2156314	2156145
	SOLID	SW846 6010B		2154211	2154078
004	SOLID	SW846 8015B		2154442	2154216
	SOLID	SW846 8015B		2155360	2155201
	SOLID	SW846 7471A		2154215	2154083
	SOLID	SW846 8260B		2155254	2155104
	SOLID	SW846 6010B		2154211	2154078

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2F010157
MB Lot-Sample #: E2F040000-254

Work Order #...: E2EKT1AA

Matrix.....: SOLID

Prep Date.....: 06/03/02

Analysis Time..: 17:44

Analysis Date..: 06/03/02

Prep Batch #...: 2155254

Instrument ID..: MSD

Dilution Factor: 1

Analyst ID.....: 064667

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 #...: E2F010157 **Work Order #...:** E2EKT1AA **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	106	(65 - 135)
1,2-Dichloroethane-d4	110	(60 - 140)
Toluene-d8	114	(70 - 130)

NOTE(S):

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2F040000-254 B **Work Order #:** E2EKT1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2F010157
MB Lot-Sample #: E2F040000-393

Work Order #...: E2FFC1AA

Matrix.....: WATER

Prep Date.....: 06/03/02
Prep Batch #...: 2155393

Analysis Time..: 20:54
Instrument ID..: MSC

Analysis Date..: 06/03/02
Dilution Factor: 1

Analyst ID.....: 004648

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2F010157 Work Order #...: E2FFC1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 130)
1,2-Dichloroethane-d4	101	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2F040000-393 B **Work Order #:** E2FFC1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2F010157
MB Lot-Sample #: E2F050000-314

Analysis Date..: 06/04/02
Dilution Factor: 1

Work Order #...: E2GXH1AA

Prep Date.....: 06/04/02
Prep Batch #...: 2156314

Analyst ID.....: 064667

Matrix.....: SOLID

Analysis Time..: 12:05
Instrument ID..: MSD

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

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2F010157 **Work Order #...:** E2GXH1AA **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	109	(65 - 135)
1,2-Dichloroethane-d4	123	(60 - 140)
Toluene-d8	118	(70 - 130)

NOTE(S):

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2F050000-314 B **Work Order #:** E2GXH1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E2F010157
MB Lot-Sample #: E2F040000-360

Analysis Date..: 06/03/02
Dilution Factor: 1

Work Order #...: E2E861AA

Prep Date.....: 06/03/02
Prep Batch #...: 2155360

Analyst ID.....: 001464

Matrix.....: SOLID

Analysis Time..: 11:53
Instrument ID..: G16

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)	72	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E2F010157
MB Lot-Sample #: E2F030000-442

Analysis Date..: 06/04/02
Dilution Factor: 1

Work Order #...: E2DRK1AA

Prep Date.....: 06/03/02
Prep Batch #...: 2154442

Analyst ID.....: 356074

Matrix.....: SOLID

Analysis Time..: 16:32
Instrument ID..: G02

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	90	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E2F010157
MB Lot-Sample #: E2F030000-442

Work Order #...: E2DRK1AF

Matrix.....: SOLID

Prep Date.....: 06/03/02

Analysis Time..: 14:47

Analysis Date..: 06/04/02

Prep Batch #...: 2154442

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	88	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2F010157 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E2F030000-211 Prep Batch #...: 2154211						
Aluminum	ND	20.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1CD
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AA
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AC
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	**0.18 B**	**2.0**	**mg/kg**	**SW846 6010B**	**06/03-06/04/02**	**E2CPW1AD**
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	**0.11 B**	**0.50**	**mg/kg**	**SW846 6010B**	**06/03-06/04/02**	**E2CPW1AE**
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AF
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AG
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AH
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AK
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AL
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2F010157 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AM
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	**0.38 B**	**4.0**	**mg/kg**	**SW846 6010B**	**06/03-06/04/02**	**E2CPW1AN**
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AP
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AQ
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AR
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	06/03-06/04/02	E2CPW1AT
		Dilution Factor: 1				
		Analysis Time..: 11:47		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E2F030000-215 **Prep Batch #...:** 2154215

Mercury	ND	0.10	mg/kg	SW846 7471A	06/03-06/07/02	E2CP81AA
		Dilution Factor: 1				
		Analysis Time..: 09:21		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 EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2F010157
LCS Lot-Sample#: E2F040000-254
Prep Date.....: 06/03/02
Prep Batch #...: 2155254
Dilution Factor: 1
Analyst ID.....: 064667

Work Order #...: E2EKT1AC
Analysis Date..: 06/03/02
Analysis Time..: 17:14
Instrument ID..: MSD

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**98**	**(65 - 150)**	**SW846 8260B**
Benzene	**94**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**96**	**(70 - 135)**	**SW846 8260B**
Toluene	**90**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**86**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	81	(65 - 135)
1,2-Dichloroethane-d4	83	(60 - 140)
Toluene-d8	86	(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/MS Volatiles

Client Lot #...: E2F010157 Work Order #...: E2EKT1AC Matrix.....: SOLID
LCS Lot-Sample#: E2F040000-254
Prep Date.....: 06/03/02 Analysis Date..: 06/03/02
Prep Batch #...: 2155254 Analysis Time..: 17:14
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 064667

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**49.1**	**ug/kg**	**98**	**SW846 8260B**
Benzene	**50.0**	**46.8**	**ug/kg**	**94**	**SW846 8260B**
Trichloroethene	**50.0**	**47.8**	**ug/kg**	**96**	**SW846 8260B**
Toluene	**50.0**	**45.0**	**ug/kg**	**90**	**SW846 8260B**
Chlorobenzene	**50.0**	**42.8**	**ug/kg**	**86**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	81	(65 - 135)
1,2-Dichloroethane-d4	83	(60 - 140)
Toluene-d8	86	(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/MS Volatiles

Client Lot #...: E2F010157 Work Order #...: E2FFC1AC Matrix.....: WATER
LCS Lot-Sample#: E2F040000-393
Prep Date.....: 06/03/02 Analysis Date..: 06/03/02
Prep Batch #...: 2155393 Analysis Time..: 20:25
Dilution Factor: 1 Instrument ID..: MSC
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**96**	**(70 - 140)**	**SW846 8260B**
Benzene	**95**	**(75 - 120)**	**SW846 8260B**
Trichloroethene	**107**	**(70 - 130)**	**SW846 8260B**
Toluene	**99**	**(75 - 125)**	**SW846 8260B**
Chlorobenzene	**97**	**(75 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	106	(80 - 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 #...: E2F010157 Work Order #...: E2FFC1AC Matrix.....: WATER
LCS Lot-Sample#: E2F040000-393
Prep Date.....: 06/03/02 Analysis Date..: 06/03/02
Prep Batch #...: 2155393 Analysis Time..: 20:25
Dilution Factor: 1 Instrument ID..: MSC
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**9.65**	**ug/L**	**96**	**SW846 8260B**
Benzene	**10.0**	**9.51**	**ug/L**	**95**	**SW846 8260B**
Trichloroethene	**10.0**	**10.7**	**ug/L**	**107**	**SW846 8260B**
Toluene	**10.0**	**9.89**	**ug/L**	**99**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.66**	**ug/L**	**97**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	106	(80 - 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 #...: E2F010157 Work Order #...: E2GXH1AC Matrix.....: SOLID
LCS Lot-Sample#: E2F050000-314
Prep Date.....: 06/04/02 Analysis Date..: 06/04/02
Prep Batch #...: 2156314 Analysis Time..: 11:35
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 064667

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**118**	**(65 - 150)**	**SW846 8260B**
Benzene	**116**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**125**	**(70 - 135)**	**SW846 8260B**
Toluene	**110**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**110**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(65 - 135)
1,2-Dichloroethane-d4	118	(60 - 140)
Toluene-d8	109	(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/MS Volatiles

Client Lot #...: E2F010157 **Work Order #...:** E2GXH1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2F050000-314
Prep Date.....: 06/04/02 **Analysis Date..:** 06/04/02
Prep Batch #...: 2156314 **Analysis Time..:** 11:35
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 064667

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**59.1**	**ug/kg**	**118**	**SW846 8260B**
Benzene	**50.0**	**58.2**	**ug/kg**	**116**	**SW846 8260B**
Trichloroethene	**50.0**	**62.3**	**ug/kg**	**125**	**SW846 8260B**
Toluene	**50.0**	**55.2**	**ug/kg**	**110**	**SW846 8260B**
Chlorobenzene	**50.0**	**55.1**	**ug/kg**	**110**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(65 - 135)
1,2-Dichloroethane-d4	118	(60 - 140)
Toluene-d8	109	(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 #...: E2F010157
LCS Lot-Sample#: E2F040000-360
Prep Date.....: 06/03/02
Prep Batch #...: 2155360
Dilution Factor: 1
Analyst ID.....: 001464

Work Order #...: E2E861AC
Analysis Date..: 06/03/02
Analysis Time..: 12:22
Instrument ID..: G16

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**88**	**(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 DATA REPORT

GC Volatiles

Client Lot #...: E2F010157 Work Order #...: E2E861AC Matrix.....: SOLID
LCS Lot-Sample#: E2F040000-360
Prep Date.....: 06/03/02 Analysis Date..: 06/03/02
Prep Batch #...: 2155360 Analysis Time..: 12:22
Dilution Factor: 1 Instrument ID..: G16
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**4.40**	**mg/kg**	**88**	**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

GC Semivolatiles

Client Lot #...: E2F010157 **Work Order #...:** E2DRK1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2F030000-442
Prep Date.....: 06/03/02 **Analysis Date..:** 06/04/02
Prep Batch #...: 2154442 **Analysis Time..:** 17:11
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**85**	**(55 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	96	(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 Semivolatiles

Client Lot #...: E2F010157 Work Order #...: E2DRK1AC Matrix.....: SOLID
LCS Lot-Sample#: E2F030000-442
Prep Date.....: 06/03/02 Analysis Date..: 06/04/02
Prep Batch #...: 2154442 Analysis Time..: 17:11
Dilution Factor: 1 Instrument ID..: G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**214**	**mg/kg**	**85**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	96	(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 Semivolatiles

Client Lot #...: E2F010157 **Work Order #...:** E2DRK1AG **Matrix.....:** SOLID
LCS Lot-Sample#: E2F030000-442
Prep Date.....: 06/03/02 **Analysis Date..:** 06/04/02
Prep Batch #...: 2154442 **Analysis Time..:** 15:27
Dilution Factor: 1 **Instrument ID..:** G03
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**89**	**(55 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	95	(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 Semivolatiles

Client Lot #...: E2F010157 Work Order #...: E2DRK1AG Matrix.....: SOLID
LCS Lot-Sample#: E2F030000-442
Prep Date.....: 06/03/02 Analysis Date..: 06/04/02
Prep Batch #...: 2154442 Analysis Time..: 15:27
Dilution Factor: 1 Instrument ID..: G03
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**221**	**mg/kg**	**89**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	95	(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 #...: E2F010157 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2F030000-211 **Prep Batch #...:** 2154211					
Arsenic	99	(75 - 115)	SW846 6010B	06/03-06/04/02	E2CPW1AU
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Aluminum	95	(70 - 115)	SW846 6010B	06/03-06/04/02	E2CPW1CE
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	99	(75 - 115)	SW846 6010B	06/03-06/04/02	E2CPW1AV
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Barium	99	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1AW
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	99	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1AX
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	102	(85 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1A0
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	104	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1A1
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Lead	99	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1A2
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	90	(70 - 115)	SW846 6010B	06/03-06/04/02	E2CPW1A3
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Silver	100	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1A4
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2F010157 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	100	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1A5
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Copper	101	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1A6
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	101	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1A7
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	99	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1A8
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	98	(75 - 125)	SW846 6010B	06/03-06/04/02	E2CPW1A9
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	101	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1CA
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	102	(80 - 120)	SW846 6010B	06/03-06/04/02	E2CPW1CC
		Dilution Factor: 1			
		Analysis Time..: 11:53	Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E2F030000-215 **Prep Batch #...:** 2154215

Mercury	106	(85 - 115)	SW846 7471A	06/03-06/07/02	E2CP81AC
		Dilution Factor: 1			
		Analysis Time..: 09:22	Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2F010157 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2F030000-211 **Prep Batch #...:** 2154211							
Arsenic	200	197	mg/kg	99	SW846 6010B	06/03-06/04/02	E2CPW1AU
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Aluminum	200	190	mg/kg	95	SW846 6010B	06/03-06/04/02	E2CPW1CE
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	49.6	mg/kg	99	SW846 6010B	06/03-06/04/02	E2CPW1AV
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	199	mg/kg	99	SW846 6010B	06/03-06/04/02	E2CPW1AW
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	4.93	mg/kg	99	SW846 6010B	06/03-06/04/02	E2CPW1AX
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	20.3	mg/kg	102	SW846 6010B	06/03-06/04/02	E2CPW1A0
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	5.18	mg/kg	104	SW846 6010B	06/03-06/04/02	E2CPW1A1
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	49.4	mg/kg	99	SW846 6010B	06/03-06/04/02	E2CPW1A2
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	180	mg/kg	90	SW846 6010B	06/03-06/04/02	E2CPW1A3
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.99	mg/kg	100	SW846 6010B	06/03-06/04/02	E2CPW1A4
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2F010157 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	49.8	mg/kg	100	SW846 6010B	06/03-06/04/02	E2CPW1A5
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	25.1	mg/kg	101	SW846 6010B	06/03-06/04/02	E2CPW1A6
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	101	mg/kg	101	SW846 6010B	06/03-06/04/02	E2CPW1A7
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	49.5	mg/kg	99	SW846 6010B	06/03-06/04/02	E2CPW1A8
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	196	mg/kg	98	SW846 6010B	06/03-06/04/02	E2CPW1A9
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	50.7	mg/kg	101	SW846 6010B	06/03-06/04/02	E2CPW1CA
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	50.9	mg/kg	102	SW846 6010B	06/03-06/04/02	E2CPW1CC
			Dilution Factor: 1				
			Analysis Time..: 11:53		Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E2F030000-215 **Prep Batch #...:** 2154215

Mercury	0.833	0.884	mg/kg	106	SW846 7471A	06/03-06/07/02	E2CP81AC
			Dilution Factor: 1				
			Analysis Time..: 09:22		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E2F010157	Work Order #...:	E12T61AK-MS	Matrix.....:	SOLID
MS Lot-Sample #:	G2E240279-004		E12T61AL-MSD		
Date Sampled...:	05/22/02 15:05	Date Received..:	05/24/02 09:18	MS Run #.....:	2155104
Prep Date.....:	06/03/02	Analysis Date..:	06/03/02		
Prep Batch #...:	2155254	Analysis Time..:	19:15		
Dilution Factor:	1	Analyst ID.....:	064667	Instrument ID..:	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**110**	**(65 - 150)**			**SW846 8260B**
	113	**(65 - 150)**	**2.3**	**(0-30)**	**SW846 8260B**
Benzene	**108**	**(70 - 130)**			**SW846 8260B**
	112	**(70 - 130)**	**3.7**	**(0-30)**	**SW846 8260B**
Trichloroethene	**148 a,MSC**	**(70 - 135)**			**SW846 8260B**
	153 a,MSC	**(70 - 135)**	**2.7**	**(0-30)**	**SW846 8260B**
Toluene	**107**	**(70 - 130)**			**SW846 8260B**
	107	**(70 - 130)**	**0.56**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**107**	**(70 - 130)**			**SW846 8260B**
	106	**(70 - 130)**	**0.22**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(65 - 135)
	101	(65 - 135)
1,2-Dichloroethane-d4	114	(60 - 140)
	112	(60 - 140)
Toluene-d8	111	(70 - 130)
	108	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E2F010157	Work Order #...:	E12T61AK-MS	Matrix.....:	SOLID
MS Lot-Sample #:	G2E240279-004		E12T61AL-MSD		
Date Sampled...:	05/22/02 15:05	Date Received..:	05/24/02 09:18	MS Run #.....:	2155104
Prep Date.....:	06/03/02	Analysis Date..:	06/03/02		
Prep Batch #...:	2155254	Analysis Time..:	19:15		
Dilution Factor:	1	Analyst ID.....:	064667	Instrument ID..:	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.5**	**55.6**	**ug/kg**	**110**		**SW846 8260B**
	ND	**50.5**	**57.0**	**ug/kg**	**113**	**2.3**	**SW846 8260B**
Benzene	**ND**	**50.5**	**54.5**	**ug/kg**	**108**		**SW846 8260B**
	ND	**50.5**	**56.6**	**ug/kg**	**112**	**3.7**	**SW846 8260B**
Trichloroethene	**ND**	**50.5**	**74.9**	**ug/kg**	**148**		**SW846 8260B**
	Qualifiers:		a,MSC				
	ND	**50.5**	**77.0**	**ug/kg**	**153**	**2.7**	**SW846 8260B**
	Qualifiers:		a,MSC				
Toluene	**ND**	**50.5**	**53.8**	**ug/kg**	**107**		**SW846 8260B**
	ND	**50.5**	**54.1**	**ug/kg**	**107**	**0.56**	**SW846 8260B**
Chlorobenzene	**ND**	**50.5**	**53.9**	**ug/kg**	**107**		**SW846 8260B**
	ND	**50.5**	**53.7**	**ug/kg**	**106**	**0.22**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(65 - 135)
	101	(65 - 135)
1,2-Dichloroethane-d4	114	(60 - 140)
	112	(60 - 140)
Toluene-d8	111	(70 - 130)
	108	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E2F010157	Work Order #...:	E18N31AJ-MS E18N31AK-MSD	Matrix.....:	WATER
MS Lot-Sample #:	G2E300347-003				
Date Sampled...:	05/30/02 09:22	Date Received..:	05/30/02 15:20	MS Run #.....:	2155243
Prep Date.....:	06/04/02	Analysis Date..:	06/04/02		
Prep Batch #...:	2155393	Analysis Time..:	04:17		
Dilution Factor:	1	Analyst ID.....:	004648	Instrument ID..:	MSC

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	94	(70 - 140)			SW846 8260B
	96	(70 - 140)	2.4	(0-25)	SW846 8260B
Benzene	98	(75 - 120)			SW846 8260B
	98	(75 - 120)	0.0	(0-25)	SW846 8260B
Trichloroethene	105	(70 - 130)			SW846 8260B
	106	(70 - 130)	1.2	(0-25)	SW846 8260B
Toluene	100	(75 - 125)			SW846 8260B
	102	(75 - 125)	1.2	(0-25)	SW846 8260B
Chlorobenzene	100	(75 - 120)			SW846 8260B
	99	(75 - 120)	0.80	(0-25)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 130)
	108	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
	107	(65 - 135)
Toluene-d8	104	(80 - 130)
	106	(80 - 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 #...:	E2F010157	Work Order #...:	E18N31AJ-MS	Matrix.....:	WATER
MS Lot-Sample #:	G2E300347-003		E18N31AK-MSD		
Date Sampled...:	05/30/02 09:22	Date Received..:	05/30/02 15:20	MS Run #.....:	2155243
Prep Date.....:	06/04/02	Analysis Date..:	06/04/02		
Prep Batch #...:	2155393	Analysis Time..:	04:17		
Dilution Factor:	1	Analyst ID.....:	004648	Instrument ID..:	MSC

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10.0**	**9.41**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**9.64**	**ug/L**	**96**	**2.4**	**SW846 8260B**
Benzene	**ND**	**10.0**	**9.82**	**ug/L**	**98**		**SW846 8260B**
	ND	**10.0**	**9.82**	**ug/L**	**98**	**0.0**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	ND	**10.0**	**10.6**	**ug/L**	**106**	**1.2**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.0**	**ug/L**	**100**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**1.2**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.95**	**ug/L**	**100**		**SW846 8260B**
	ND	**10.0**	**9.87**	**ug/L**	**99**	**0.80**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 130)
	108	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
	107	(65 - 135)
Toluene-d8	104	(80 - 130)
	106	(80 - 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 #...:	E2F010157	Work Order #...:	E2AD81CT-MS	Matrix.....:	SOLID
MS Lot-Sample #:	G2E310257-001		E2AD81CU-MSD		
Date Sampled...:	05/29/02 07:45	Date Received..:	05/31/02 09:10	MS Run #.....:	2156145
Prep Date.....:	06/04/02	Analysis Date..:	06/04/02		
Prep Batch #...:	2156314	Analysis Time..:	14:59		
Dilution Factor:	1	Analyst ID.....:	064667	Instrument ID..:	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**128**	**(65 - 150)**			**SW846 8260B**
	124	**(65 - 150)**	**3.8**	**(0-30)**	**SW846 8260B**
Benzene	**128**	**(70 - 130)**			**SW846 8260B**
	123	**(70 - 130)**	**3.7**	**(0-30)**	**SW846 8260B**
Trichloroethene	**148 a,MSC**	**(70 - 135)**			**SW846 8260B**
	139 a,MSC	**(70 - 135)**	**6.1**	**(0-30)**	**SW846 8260B**
Toluene	**118**	**(70 - 130)**			**SW846 8260B**
	112	**(70 - 130)**	**5.4**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**116**	**(70 - 130)**			**SW846 8260B**
	112	**(70 - 130)**	**4.0**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(65 - 135)
	99	(65 - 135)
1,2-Dichloroethane-d4	130	(60 - 140)
	123	(60 - 140)
Toluene-d8	112	(70 - 130)
	102	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E2F010157	**Work Order #...:**	E2AD81CT-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	G2E310257-001		E2AD81CU-MSD		
Date Sampled...:	05/29/02 07:45	**Date Received..:**	05/31/02 09:10	**MS Run #.....:**	2156145
Prep Date.....:	06/04/02	**Analysis Date..:**	06/04/02		
Prep Batch #...:	2156314	**Analysis Time..:**	14:59		
Dilution Factor:	1	**Analyst ID.....:**	064667	**Instrument ID..:**	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**52.0**	**66.7**	**ug/kg**	**128**		**SW846 8260B**
	ND	**52.0**	**64.2**	**ug/kg**	**124**	**3.8**	**SW846 8260B**
Benzene	**ND**	**52.0**	**66.4**	**ug/kg**	**128**		**SW846 8260B**
	ND	**52.0**	**64.0**	**ug/kg**	**123**	**3.7**	**SW846 8260B**
Trichloroethene	**ND**	**52.0**	**76.9**	**ug/kg**	**148**		**SW846 8260B**
	Qualifiers:		a,MSC				
	ND	**52.0**	**72.4**	**ug/kg**	**139**	**6.1**	**SW846 8260B**
	Qualifiers:		a,MSC				
Toluene	**ND**	**52.0**	**61.3**	**ug/kg**	**118**		**SW846 8260B**
	ND	**52.0**	**58.0**	**ug/kg**	**112**	**5.4**	**SW846 8260B**
Chlorobenzene	**ND**	**52.0**	**60.5**	**ug/kg**	**116**		**SW846 8260B**
	ND	**52.0**	**58.2**	**ug/kg**	**112**	**4.0**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(65 - 135)
	99	(65 - 135)
1,2-Dichloroethane-d4	130	(60 - 140)
	123	(60 - 140)
Toluene-d8	112	(70 - 130)
	102	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E2F010157	**Work Order #...:**	E16J41C6-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E2E290277-010		E16J41C7-MSD		
Date Sampled...:	05/29/02 09:30	**Date Received..:**	05/29/02 17:35	**MS Run #.....:**	2155201
Prep Date.....:	06/03/02	**Analysis Date..:**	06/03/02		
Prep Batch #...:	2155361	**Analysis Time..:**	14:49		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**107**	**(70 - 140)**			**SW846 8015B**
	104	**(70 - 140)**	**2.8**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	105	(60 - 130)
	102	(60 - 130)

NOTE(S):

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

Bold print denctes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...:	E2F010157	Work Order #...:	E16J41C6-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2E290277-010		E16J41C7-MSD		
Date Sampled...:	05/29/02 09:30	Date Received..:	05/29/02 17:35	MS Run #.....:	2155201
Prep Date.....:	06/03/02	Analysis Date..:	06/03/02		
Prep Batch #...:	2155361	Analysis Time..:	14:49		
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	5.33	mg/kg	107		SW846 8015B
	ND	5.00	5.19	mg/kg	104	2.8	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	105	(60 - 130)
	102	(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 Semivolatiles

Client Lot #...:	E2F010157	Work Order #...:	E2AD91AG-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2E310258-001		E2AD91AH-MSD		
Date Sampled...:	05/31/02	Date Received..:	05/31/02 14:00	MS Run #.....:	2154216
Prep Date.....:	06/03/02	Analysis Date..:	06/04/02		
Prep Batch #...:	2154442	Analysis Time..:	18:29		
Dilution Factor:	100	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**0.0 NC,MS**	**(55 - 130)**			**SW846 8015B**
	0.0 NC,MS	**(55 - 130)**	**0.0**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	0.0	(60 - 130)
	Qualifiers: DIL,*	
	0.0	(60 - 130)
	Qualifiers: DIL,*	

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E2F010157	Work Order #...:	E2AD91AG-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2E310258-001		E2AD91AH-MSD		
Date Sampled...:	05/31/02	Date Received..:	05/31/02 14:00	MS Run #.....:	2154216
Prep Date.....:	06/03/02	Analysis Date..:	06/04/02		
Prep Batch #...:	2154442	Analysis Time..:	18:29		
Dilution Factor:	100	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Diesel)	**23000**	**250**		**mg/kg**	**0.0**		**SW846 8015B**
	Qualifiers:		NC,MSB				
	23000	**250**		**mg/kg**	**0.0**	**0.0**	**SW846 8015B**
	Qualifiers:		NC,MSB				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	0.0	(60 - 130)
	Qualifiers: DIL,*	
	0.0	(60 - 130)
	Qualifiers: DIL,*	

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2F010157 **Matrix.....:** SOLID
Date Sampled...: 05/29/02 09:30 **Date Received..:** 05/29/02 17:35

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2E290277-010 **Prep Batch #...:** 2154211							
Aluminum	NC	(70 - 115)			SW846 6010B	06/03-06/04/02	E16J41C9
	NC	(70 - 115)		(0-25)	SW846 6010B	06/03-06/04/02	E16J41DA
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Arsenic	97	(75 - 115)			SW846 6010B	06/03-06/04/02	E16J41A2
	99	(75 - 115)	2.2	(0-25)	SW846 6010B	06/03-06/04/02	E16J41A3
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Antimony	30 N	(75 - 115)			SW846 6010B	06/03-06/04/02	E16J41A4
	29 N	(75 - 115)	4.0	(0-25)	SW846 6010B	06/03-06/04/02	E16J41A5
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Barium	96	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41A6
	109	(80 - 120)	10	(0-25)	SW846 6010B	06/03-06/04/02	E16J41A7
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Cadmium	94	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41A8
	97	(80 - 120)	2.8	(0-25)	SW846 6010B	06/03-06/04/02	E16J41A9
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Chromium	105	(85 - 120)			SW846 6010B	06/03-06/04/02	E16J41CA
	127 N	(85 - 120)	12	(0-25)	SW846 6010B	06/03-06/04/02	E16J41CC
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Beryllium	99	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41CD
	103	(80 - 120)	3.3	(0-25)	SW846 6010B	06/03-06/04/02	E16J41CE
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2F010157 **Matrix.....:** SOLID
Date Sampled...: 05/29/02 09:30 **Date Received..:** 05/29/02 17:35

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	95	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41CF
	98	(80 - 120)	3.0	(0-25)	SW846 6010B	06/03-06/04/02	E16J41CG
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Selenium	89	(70 - 115)			SW846 6010B	06/03-06/04/02	E16J41CH
	90	(70 - 115)	1.2	(0-25)	SW846 6010B	06/03-06/04/02	E16J41CJ
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Silver	94	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41CK
	96	(80 - 120)	2.6	(0-25)	SW846 6010B	06/03-06/04/02	E16J41CL
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Cobalt	94	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41CM
	99	(80 - 120)	4.2	(0-25)	SW846 6010B	06/03-06/04/02	E16J41CN
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Copper	98	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41CP
	112	(80 - 120)	9.8	(0-25)	SW846 6010B	06/03-06/04/02	E16J41CQ
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Molybdenum	93	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41CR
	94	(80 - 120)	1.8	(0-25)	SW846 6010B	06/03-06/04/02	E16J41CT
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					
Nickel	94	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41CU
	100	(80 - 120)	4.9	(0-25)	SW846 6010B	06/03-06/04/02	E16J41CV
		Dilution Factor: 1					
		Analysis Time..: 12:52			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2154078					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2F010157 **Matrix.....:** SOLID
Date Sampled...: 05/29/02 09:30 **Date Received..:** 05/29/02 17:35

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	95	(75 - 125)			SW846 6010B	06/03-06/04/02	E16J41CW
	97	(75 - 125)	1.7	(0-25)	SW846 6010B	06/03-06/04/02	E16J41CX

Dilution Factor: 1
Analysis Time..: 12:52 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2154078

Vanadium	96	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41C0
	111	(80 - 120)	9.9	(0-25)	SW846 6010B	06/03-06/04/02	E16J41C1

Dilution Factor: 1
Analysis Time..: 12:52 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2154078

Zinc	91	(80 - 120)			SW846 6010B	06/03-06/04/02	E16J41C2
	107	(80 - 120)	10	(0-25)	SW846 6010B	06/03-06/04/02	E16J41C3

Dilution Factor: 1
Analysis Time..: 12:52 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2154078

MS Lot-Sample #: E2E290277-010 **Prep Batch #...:** 2154215

Mercury	112	(80 - 120)			SW846 7471A	06/03-06/07/02	E16J41C4
	123 N	(80 - 120)	9.4	(0-20)	SW846 7471A	06/03-06/07/02	E16J41C5

Dilution Factor: 1
Analysis Time..: 09:31 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 2154083

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2F010157 **Matrix.....:** SOLID
Date Sampled...: 05/29/02 09:30 **Date Received..:** 05/29/02 17:35

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2E290277-010 **Prep Batch #...:** 2154211									
Aluminum									
	5560	200	6650 NC	mg/kg			SW846 6010B	06/03-06/04/02	E16J41C9
	5560	200	8530 NC	mg/kg			SW846 6010B	06/03-06/04/02	E16J41DA
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Arsenic									
	2.9	200	196	mg/kg	97		SW846 6010B	06/03-06/04/02	E16J41A2
	2.9	200	201	mg/kg	99	2.2	SW846 6010B	06/03-06/04/02	E16J41A3
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Antimony									
	ND	50.0	14.9 N	mg/kg	30		SW846 6010B	06/03-06/04/02	E16J41A4
	ND	50.0	14.3 N	mg/kg	29	4.0	SW846 6010B	06/03-06/04/02	E16J41A5
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Barium									
	47.3	200	240	mg/kg	96		SW846 6010B	06/03-06/04/02	E16J41A6
	47.3	200	266	mg/kg	109	10	SW846 6010B	06/03-06/04/02	E16J41A7
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Cadmium									
	0.11	5.00	4.81	mg/kg	94		SW846 6010B	06/03-06/04/02	E16J41A8
	0.11	5.00	4.95	mg/kg	97	2.8	SW846 6010B	06/03-06/04/02	E16J41A9
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Chromium									
	12.4	20.0	33.5	mg/kg	105		SW846 6010B	06/03-06/04/02	E16J41CA
	12.4	20.0	37.9 N	mg/kg	127	12	SW846 6010B	06/03-06/04/02	E16J41CC
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2F010157 **Matrix.....:** SOLID
Date Sampled...: 05/29/02 09:30 **Date Received..:** 05/29/02 17:35

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.31	5.00	5.26	mg/kg	99		SW846 6010B	06/03-06/04/02	E16J41CD
	0.31	5.00	5.44	mg/kg	103	3.3	SW846 6010B	06/03-06/04/02	E16J41CE
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Lead									
	2.5	50.0	50.0	mg/kg	95		SW846 6010B	06/03-06/04/02	E16J41CF
	2.5	50.0	51.6	mg/kg	98	3.0	SW846 6010B	06/03-06/04/02	E16J41CG
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Selenium									
	0.87	200	179	mg/kg	89		SW846 6010B	06/03-06/04/02	E16J41CH
	0.87	200	182	mg/kg	90	1.2	SW846 6010B	06/03-06/04/02	E16J41CJ
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Silver									
	ND	5.00	4.68	mg/kg	94		SW846 6010B	06/03-06/04/02	E16J41CK
	ND	5.00	4.81	mg/kg	96	2.6	SW846 6010B	06/03-06/04/02	E16J41CL
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Cobalt									
	4.0	50.0	51.1	mg/kg	94		SW846 6010B	06/03-06/04/02	E16J41CM
	4.0	50.0	53.3	mg/kg	99	4.2	SW846 6010B	06/03-06/04/02	E16J41CN
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Copper									
	8.9	25.0	33.4	mg/kg	98		SW846 6010B	06/03-06/04/02	E16J41CP
	8.9	25.0	36.9	mg/kg	112	9.8	SW846 6010B	06/03-06/04/02	E16J41CQ
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2F010157 **Matrix.....:** SOLID
Date Sampled...: 05/29/02 09:30 **Date Received..:** 05/29/02 17:35

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	1.3	100	93.8	mg/kg	93		SW846 6010B	06/03-06/04/02	E16J41CR
	1.3	100	95.6	mg/kg	94	1.8	SW846 6010B	06/03-06/04/02	E16J41CT
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Nickel									
	9.9	50.0	57.1	mg/kg	94		SW846 6010B	06/03-06/04/02	E16J41CU
	9.9	50.0	60.0	mg/kg	100	4.9	SW846 6010B	06/03-06/04/02	E16J41CV
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Thallium									
	ND	200	191	mg/kg	95		SW846 6010B	06/03-06/04/02	E16J41CW
	ND	200	194	mg/kg	97	1.7	SW846 6010B	06/03-06/04/02	E16J41CX
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Vanadium									
	21.5	50.0	69.7	mg/kg	96		SW846 6010B	06/03-06/04/02	E16J41C0
	21.5	50.0	77.0	mg/kg	111	9.9	SW846 6010B	06/03-06/04/02	E16J41C1
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						
Zinc									
	30.0	50.0	75.4	mg/kg	91		SW846 6010B	06/03-06/04/02	E16J41C2
	30.0	50.0	83.7	mg/kg	107	10	SW846 6010B	06/03-06/04/02	E16J41C3
			Dilution Factor: 1						
			Analysis Time..: 12:52		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2154078						

MS Lot-Sample #: E2E290277-010 **Prep Batch #...:** 2154215

Mercury									
	ND	0.167	0.187	mg/kg	112		SW846 7471A	06/03-06/07/02	E16J41C4
	ND	0.167	0.205 N	mg/kg	123	9.4	SW846 7471A	06/03-06/07/02	E16J41C5
			Dilution Factor: 1						
			Analysis Time..: 09:31		Instrument ID..: M04			Analyst ID.....: 000023	
			MS Run #.....: 2154083						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

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STL Los Angeles 1721 S Grand Avenue Santa Ana, CA 92706 Attention: Diane Suzuki	Client Project ID E2F010157 Report Number: PLF0033	Sampled: 05/31/02 Received: 06/04/02 Issued: 6/20/02

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX
PLF0033-01RE1	SP-37	Soil
PLF0033-02RE1	SP-36	Soil
PLF0033-03	SP-38	Soil

SAMPLE RECEIPT: Samples were received intact, on ice, at 10°C, and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted.

QA/QC CRITERIA: All analyses met method criteria.

EXPLANATION OF DATA QUALIFIERS: No further explanation of data qualifiers needed.

Del Mar Analytical, Phoenix (ELAP I-2446/NELAP# 01109CA)

Nicole Beck For Debbie Fuller
Project Manager

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STL Los Angeles 1721 S Grand Avenue Santa Ana, CA 92706 Attention: Diane Suzuki	Client Project ID: E2F010157 Report Number: PLF0033	Sampled: 05/31/02 Received: 06/04/02

CASE NARRATIVE

HPLC CALIBRATION CHECK CRITERIA
POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Per Method 8000B of SW-846, the percent recovery of the calibration checks for HPLC analyses must be within ± 15% from the true value for each individual compound or the average % recovery of all compounds in the calibration check solution must be within ± 15% recovery. Per Method 8000B, the end user is to be notified if the latter situation occurs.

The % recovery for the following individual compounds fell outside the ± 15% criteria, however the average % recovery of all compounds in the calibration check solution was within ± 15%, thus meeting the overall calibration check criteria.

Compound	Footnote	Calibration Check % Recovery	Lab Number	Batch
Benzo(a)pyrene	2	79.60%	P2F1317-BLK1	P2F1317
Benzo(b)fluoranthene	1	117.73%	P2F1317-BLK1	P2F1317
Benzo(g,h,i)perylene	1	124.17%	P2F1317-BLK1	P2F1317
Dibenz(a,h)anthracene	1	122.28%	P2F1317-BLK1	P2F1317
Chrysene	1	117.38%	P2F1317-BS1	P2F1317
Benzo(a)pyrene	2	79.60%	P2F1317-BSD1	P2F1317
Benzo(b)fluoranthene	1	117.73%	P2F1317-BSD1	P2F1317
Benzo(g,h,i)perylene	1	124.17%	P2F1317-BSD1	P2F1317
Dibenz(a,h)anthracene	1	122.28%	P2F1317-BSD1	P2F1317
Benzo(a)pyrene	2	79.60%	P2F1317-MS1	P2F1317
Benzo(b)fluoranthene	1	117.73%	P2F1317-MS1	P2F1317
Benzo(g,h,i)perylene	1	124.17%	P2F1317-MS1	P2F1317
Dibenz(a,h)anthracene	1	122.28%	P2F1317-MS1	P2F1317
Benzo(a)pyrene	2	79.60%	P2F1317-MSD1	P2F1317
Benzo(b)fluoranthene	1	117.73%	P2F1317-MSD1	P2F1317
Benzo(g,h,i)perylene	1	124.17%	P2F1317-MSD1	P2F1317
Dibenz(a,h)anthracene	1	122.28%	P2F1317-MSD1	P2F1317
Benzo(a)pyrene	2	79.60%	PLF0033-01RE1	P2F1317

Nicole Beck For Debbie Fuller
Project Manager

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STL Los Angeles 1721 S Grand Avenue Santa Ana, CA 92706 Attention: Diane Suzuki	Client Project ID: E2F010157 Report Number: PLF0033	Sampled: 05/31/02 Received: 06/04/02

CASE NARRATIVE

HPLC CALIBRATION CHECK CRITERIA
POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Per Method 8000B of SW-846, the percent recovery of the calibration checks for HPLC analyses must be within ± 15% from the true value for each individual compound or the average % recovery of all compounds in the calibration check solution must be within ± 15% recovery. Per Method 8000B, the end user is to be notified if the latter situation occurs.

The % recovery for the following individual compounds fell outside the ± 15% criteria, however the average % recovery of all compounds in the calibration check solution was within ± 15%, thus meeting the overall calibration check criteria.

Compound	Footnote	Calibration Check % Recovery	Lab Number	Batch
Benzo(b)fluoranthene	1	117.73%	PLF0033-01RE1	P2F1317
Benzo(g,h,i)perylene	1	124.17%	PLF0033-01RE1	P2F1317
Dibenz(a,h)anthracene	1	122.28%	PLF0033-01RE1	P2F1317
Benzo(b)fluoranthene	1	117.73%	PLF0033-02RE1	P2F1317
Benzo(g,h,i)perylene	1	124.17%	PLF0033-02RE1	P2F1317
Dibenz(a,h)anthracene	1	122.28%	PLF0033-02RE1	P2F1317

Footnotes:

1 The calibration demonstrated a high bias for this compound. Samples were flagged to indicate a possible high bias in the result for this compound.

2 The calibration demonstrated a low bias for this compound. Samples were flagged to indicate a possible low bias in the result for this compound.

Nicole Beck For Debbie Fuller
Project Manager

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Santa Ana, CA 92706
Attention: Diane Suzuki

Client Project ID: E2F010157

Report Number: PLF0033

Sampled: 05/31/02
Received: 06/04/02

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLF0033-01RE1 (SP-37 - Soil)								
Acenaphthene	EPA 8310	P2F1317	50	ND	1	6/13/02	6/18/02	
Acenaphthylene	EPA 8310	P2F1317	200	ND	1	6/13/02	6/18/02	
Anthracene	EPA 8310	P2F1317	2.0	ND	1	6/13/02	6/18/02	
Benz(a)anthracene	EPA 8310	P2F1317	2.0	ND	1	6/13/02	6/18/02	
Benzo(a)pyrene	EPA 8310	P2F1317	2.0	ND	1	6/13/02	6/18/02	C2
Benzo(b)fluoranthene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	C1b
Benzo(g,h,i)perylene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	C1f
Benzo(k)fluoranthene	EPA 8310	P2F1317	2.0	ND	1	6/13/02	6/18/02	
Chrysene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Dibenz(a,h)anthracene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	C1d
Fluoranthene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Fluorene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Indeno(1,2,3-cd)pyrene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Naphthalene	EPA 8310	P2F1317	40	ND	1	6/13/02	6/18/02	
Phenanthrene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Pyrene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Surrogate: 2-Methylanthracene (50-115%)				*87 %*				
Sample ID: PLF0033-02RE1 (SP-36 - Soil)								
Acenaphthene	EPA 8310	P2F1317	50	ND	1	6/13/02	6/18/02	
Acenaphthylene	EPA 8310	P2F1317	200	ND	1	6/13/02	6/18/02	
Anthracene	EPA 8310	P2F1317	2.0	ND	1	6/13/02	6/18/02	
Benz(a)anthracene	EPA 8310	P2F1317	2.0	ND	1	6/13/02	6/18/02	
Benzo(a)pyrene	EPA 8310	P2F1317	2.0	**3.1**	1	6/13/02	6/19/02	
Benzo(b)fluoranthene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	C1b
Benzo(g,h,i)perylene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	C1f
Benzo(k)fluoranthene	EPA 8310	P2F1317	2.0	ND	1	6/13/02	6/18/02	
Chrysene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Dibenz(a,h)anthracene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	C1d
Fluoranthene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Fluorene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Indeno(1,2,3-cd)pyrene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Naphthalene	EPA 8310	P2F1317	40	ND	1	6/13/02	6/18/02	
Phenanthrene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Pyrene	EPA 8310	P2F1317	5.0	ND	1	6/13/02	6/18/02	
Surrogate: 2-Methylanthracene (50-115%)				*88 %*				

Nicole Beck For Debbie Fuller
Project Manager

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STL Los Angeles
1721 S Grand Avenue
Santa Ana, CA 92706
Attention: Diane Suzuki

Client Project ID: E2F010157

Report Number: PLF0033

Sampled: 05/31/02
Received: 06/04/02

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLF0033-03 (SP-38 - Soil)								
Acenaphthene	EPA 8310	P2F1106	100	ND	1	6/11/02	6/15/02	
Acenaphthylene	EPA 8310	P2F1106	400	**620**	1	6/11/02	6/15/02	
Anthracene	EPA 8310	P2F1106	4.0	ND	1	6/11/02	6/15/02	
Benz(a)anthracene	EPA 8310	P2F1106	4.0	ND	1	6/11/02	6/15/02	
Benzo(a)pyrene	EPA 8310	P2F1106	4.0	ND	1	6/11/02	6/15/02	
Benzo(b)fluoranthene	EPA 8310	P2F1106	10	ND	1	6/11/02	6/15/02	
Benzo(g,h,i)perylene	EPA 8310	P2F1106	10	ND	1	6/11/02	6/15/02	
Benzo(k)fluoranthene	EPA 8310	P2F1106	4.0	ND	1	6/11/02	6/15/02	
Chrysene	EPA 8310	P2F1106	10	ND	1	6/11/02	6/15/02	
Dibenz(a,h)anthracene	EPA 8310	P2F1106	10	ND	1	6/11/02	6/15/02	
Fluoranthene	EPA 8310	P2F1106	10	ND	1	6/11/02	6/15/02	
Fluorene	EPA 8310	P2F1106	10	ND	1	6/11/02	6/15/02	
Indeno(1,2,3-cd)pyrene	EPA 8310	P2F1106	10	ND	1	6/11/02	6/15/02	
Naphthalene	EPA 8310	P2F1106	80	ND	1	6/11/02	6/15/02	
Phenanthrene	EPA 8310	P2F1106	10	ND	1	6/11/02	6/15/02	
Pyrene	EPA 8310	P2F1106	10	ND	1	6/11/02	6/15/02	
Surrogate: 2-Methylanthracene (50-115%)				*76 %*				

The reporting limit for this sample was adjusted by a factor of 2 to account for the applicable preparation factor.

DEL MAR ANALYTICAL, PHOENIX (NELAP# 01109CA

Nicole Beck For Debbie Fuller
Project Manager

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Client Project ID: E2F010157
Report Number: PLF0033

Sampled: 05/31/02
Received: 06/04/02

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: P2F1106 Extracted: 06/11/02										
Blank Analyzed: 06/14/02 (P2F1106-BLK1)										
Acenaphthene	ND	50	ug/kg							
Acenaphthylene	ND	200	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benz(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							
Dibenz(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	*99.1*		*ug/kg*	*100*		*99*	*50-115*			
LCS Analyzed: 06/14/02 (P2F1106-BS1)										
Acenaphthene	**1730**	50	ug/kg	2000		86	70-115			
Acenaphthylene	**877**	200	ug/kg	1000		88	75-130			
Anthracene	**34.7**	2.0	ug/kg	40.0		87	65-115			
Benz(a)anthracene	**101**	2.0	ug/kg	100		101	85-120			
Benzo(a)pyrene	**99.3**	2.0	ug/kg	100		99	50-115			
Benzo(b)fluoranthene	**41.1**	5.0	ug/kg	40.0		103	75-125			
Benzo(g,h,i)perylene	**171**	5.0	ug/kg	160		107	75-120			
Benzo(k)fluoranthene	**37.3**	2.0	ug/kg	40.0		93	85-115			
Chrysene	**107**	5.0	ug/kg	100		107	75-115			
Dibenz(a,h)anthracene	**400**	5.0	ug/kg	400		100	75-125			
Fluoranthene	**90.7**	5.0	ug/kg	100		91	75-115			
Fluorene	**178**	5.0	ug/kg	200		89	70-130			
Indeno(1,2,3-cd)pyrene	**86.5**	5.0	ug/kg	100		86	80-115			
Naphthalene	**853**	40	ug/kg	1000		85	70-115			
Phenanthrene	**66.5**	5.0	ug/kg	80.0		83	70-115			
Pyrene	**204**	5.0	ug/kg	200		102	85-120			

Nicole Beck For Debbie Fuller
Project Manager

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Attention: Diane Suzuki

Client Project ID: E2F010157
Report Number: PLF0033

Sampled: 05/31/02
Received: 06/04/02

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: P2F1106 Extracted: 06/11/02										
LCS Analyzed: 06/14/02 (P2F1106-BS1)										
Surrogate: 2-Methylanthracene	*103*		*ug/kg*	*100*		*103*	*50-115*			
LCS Dup Analyzed: 06/15/02 (P2F1106-BSD1)										
Acenaphthene	**1930**	50	ug/kg	2000		96	70-115	11	30	
Acenaphthylene	**957**	200	ug/kg	1000		96	75-130	9	30	
Anthracene	**36.3**	2.0	ug/kg	40.0		91	65-115	5	30	
Benz(a)anthracene	**103**	2.0	ug/kg	100		103	85-120	2	30	
Benzo(a)pyrene	**99.7**	2.0	ug/kg	100		100	50-115	0.4	30	
Benzo(b)fluoranthene	**40.9**	5.0	ug/kg	40.0		102	75-125	0.5	30	
Benzo(g,h,i)perylene	**165**	5.0	ug/kg	160		103	75-120	4	30	
Benzo(k)fluoranthene	**37.5**	2.0	ug/kg	40.0		94	85-115	0.5	30	
Chrysene	**110**	5.0	ug/kg	100		110	75-115	3	30	
Dibenz(a,h)anthracene	**389**	5.0	ug/kg	400		97	75-125	3	30	
Fluoranthene	**94.1**	5.0	ug/kg	100		94	75-115	4	30	
Fluorene	**193**	5.0	ug/kg	200		96	70-130	8	30	
Indeno(1,2,3-cd)pyrene	**88.4**	5.0	ug/kg	100		88	80-115	2	30	
Naphthalene	**921**	40	ug/kg	1000		92	70-115	8	30	
Phenanthrene	**70.0**	5.0	ug/kg	80.0		88	70-115	5	30	
Pyrene	**211**	5.0	ug/kg	200		106	85-120	3	30	
Surrogate: 2-Methylanthracene	*106*		*ug/kg*	*100*		*106*	*50-115*			
Matrix Spike Analyzed: 06/15/02 (P2F1106-MS1)					**Source: PLF0033-03**					
Acenaphthene	**3020**	100	ug/kg	4000	ND	76	65-115			
Acenaphthylene	**2250**	400	ug/kg	2000	620	82	65-125			
Anthracene	**56.7**	4.0	ug/kg	80.0	ND	70	55-115			
Benz(a)anthracene	**165**	4.0	ug/kg	200	ND	82	50-140			
Benzo(a)pyrene	**157**	4.0	ug/kg	200	ND	78	50-120			
Benzo(b)fluoranthene	**65.1**	10	ug/kg	80.0	ND	81	50-150			
Benzo(g,h,i)perylene	**246**	10	ug/kg	320	ND	77	50-155			
Benzo(k)fluoranthene	**58.5**	4.0	ug/kg	80.0	ND	73	50-140			
Chrysene	**185**	10	ug/kg	200	ND	92	50-145			
Dibenz(a,h)anthracene	**598**	10	ug/kg	800	ND	75	50-150			
Fluoranthene	**143**	10	ug/kg	200	ND	72	50-135			
Fluorene	**284**	10	ug/kg	400	ND	71	65-115			
Indeno(1,2,3-cd)pyrene	**135**	10	ug/kg	200	ND	68	50-140			
Naphthalene	**1460**	80	ug/kg	2000	ND	73	65-115			
Phenanthrene	**111**	10	ug/kg	160	ND	69	50-120			

Nicole Beck For Debbie Fuller
Project Manager

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STL Los Angeles
1721 S Grand Avenue
Santa Ana, CA 92706
Attention: Diane Suzuki

Client Project ID: E2F010157

Report Number: PLF0033

Sampled: 05/31/02
Received: 06/04/02

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: P2F1106 Extracted: 06/11/02										
Matrix Spike Analyzed: 06/15/02 (P2F1106-MS1)					**Source: PLF0033-03**					
Pyrene	**330**	10	ug/kg	400	ND	82	55-155			
Surrogate: 2-Methylanthracene	*179*		*ug/kg*	*200*		*90*	*50-115*			
Matrix Spike Dup Analyzed: 06/15/02 (P2F1106-MSD1)					**Source: PLF0033-03**					
Acenaphthene	**3300**	100	ug/kg	4000	ND	82	65-115	9	30	
Acenaphthylene	**2450**	400	ug/kg	2000	620	92	65-125	9	30	
Anthracene	**61.8**	4.0	ug/kg	80.0	ND	77	55-115	9	30	
Benz(a)anthracene	**174**	4.0	ug/kg	200	ND	87	50-140	5	30	
Benzo(a)pyrene	**171**	4.0	ug/kg	200	ND	86	50-120	9	30	
Benzo(b)fluoranthene	**68.4**	10	ug/kg	80.0	ND	86	50-150	5	30	
Benzo(g,h,i)perylene	**276**	10	ug/kg	320	ND	86	50-155	11	30	
Benzo(k)fluoranthene	**64.0**	4.0	ug/kg	80.0	ND	80	50-140	9	30	
Chrysene	**178**	10	ug/kg	200	ND	89	50-145	4	30	
Dibenz(a,h)anthracene	**654**	10	ug/kg	800	ND	82	50-150	9	30	
Fluoranthene	**160**	10	ug/kg	200	ND	80	50-135	11	30	
Fluorene	**305**	10	ug/kg	400	ND	76	65-115	7	30	
Indeno(1,2,3-cd)pyrene	**149**	10	ug/kg	200	ND	74	50-140	10	30	
Naphthalene	**1540**	80	ug/kg	2000	ND	77	65-115	5	30	
Phenanthrene	**121**	10	ug/kg	160	ND	76	50-120	9	30	
Pyrene	**357**	10	ug/kg	400	ND	89	55-155	8	30	
Surrogate: 2-Methylanthracene	*182*		*ug/kg*	*200*		*91*	*50-115*			
Batch: P2F1317 Extracted: 06/13/02										
Blank Analyzed: 06/18/02 (P2F1317-BLK1)										
Acenaphthene	ND	50	ug/kg							
Acenaphthylene	ND	200	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benz(a)anthracene	ND	2.0	ug/kg							
Benzo(a)pyrene	ND	2.0	ug/kg							C2
Benzo(b)fluoranthene	ND	5.0	ug/kg							C1b
Benzo(g,h,i)perylene	ND	5.0	ug/kg							C1f
Benzo(k)fluoranthene	ND	2.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenz(a,h)anthracene	ND	5.0	ug/kg							C1d
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							

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STL Los Angeles
1721 S Grand Avenue
Santa Ana, CA 92706
Attention: Diane Suzuki

Client Project ID: E2F010157
Report Number: PLF0033

Sampled: 05/31/02
Received: 06/04/02

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: P2F1317 Extracted: 06/13/02										
Blank Analyzed: 06/18/02 (P2F1317-BLK1)										
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	*93.9*		*ug/kg*	*100*		*94*	*50-115*			
LCS Analyzed: 06/19/02 (P2F1317-BS1)										
Acenaphthene	**1630**	50	ug/kg	2000		82	70-115			
Acenaphthylene	**782**	200	ug/kg	1000		78	75-130			
Anthracene	**30.5**	2.0	ug/kg	40.0		76	65-115			
Benz(a)anthracene	**88.3**	2.0	ug/kg	100		88	85-120			
Benzo(a)pyrene	**72.8**	2.0	ug/kg	100		73	50-115			
Benzo(b)fluoranthene	**33.7**	5.0	ug/kg	40.0		84	75-125			
Benzo(g,h,i)perylene	**144**	5.0	ug/kg	160		90	75-120			
Benzo(k)fluoranthene	**33.9**	2.0	ug/kg	40.0		85	85-115			
Chrysene	**81.0**	5.0	ug/kg	100		81	75-115			C1a
Dibenz(a,h)anthracene	**348**	5.0	ug/kg	400		87	75-125			
Fluoranthene	**78.1**	5.0	ug/kg	100		78	75-115			
Fluorene	**160**	5.0	ug/kg	200		80	70-130			
Indeno(1,2,3-cd)pyrene	**84.9**	5.0	ug/kg	100		85	80-115			
Naphthalene	**760**	40	ug/kg	1000		76	70-115			
Phenanthrene	**59.3**	5.0	ug/kg	80.0		74	70-115			
Pyrene	**183**	5.0	ug/kg	200		92	85-120			
Surrogate: 2-Methylanthracene	*88.0*		*ug/kg*	*100*		*88*	*50-115*			
LCS Dup Analyzed: 06/18/02 (P2F1317-BSD1)										
Acenaphthene	**1710**	50	ug/kg	2000		86	70-115	5	30	
Acenaphthylene	**843**	200	ug/kg	1000		84	75-130	8	30	
Anthracene	**32.2**	2.0	ug/kg	40.0		80	65-115	5	30	
Benz(a)anthracene	**90.5**	2.0	ug/kg	100		90	85-120	2	30	
Benzo(a)pyrene	**67.3**	2.0	ug/kg	100		67	50-115	8	30	C2
Benzo(b)fluoranthene	**35.3**	5.0	ug/kg	40.0		88	75-125	5	30	C1b
Benzo(g,h,i)perylene	**139**	5.0	ug/kg	160		87	75-120	4	30	C1f
Benzo(k)fluoranthene	**35.2**	2.0	ug/kg	40.0		88	85-115	4	30	
Chrysene	**81.3**	5.0	ug/kg	100		81	75-115	0.4	30	
Dibenz(a,h)anthracene	**352**	5.0	ug/kg	400		88	75-125	1	30	C1d
Fluoranthene	**80.0**	5.0	ug/kg	100		80	75-115	2	30	

Nicole Beck For Debbie Fuller
Project Manager

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STL Los Angeles
1721 S Grand Avenue
Santa Ana, CA 92706
Attention: Diane Suzuki

Client Project ID: E2F010157

Report Number: PLF0033

Sampled: 05/31/02
Received: 06/04/02

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: P2F1317 Extracted: 06/13/02										
LCS Dup Analyzed: 06/18/02 (P2F1317-BSD1)										
Fluorene	**172**	5.0	ug/kg	200		86	70-130	7	30	
Indeno(1,2,3-cd)pyrene	**86.3**	5.0	ug/kg	100		86	80-115	2	30	
Naphthalene	**801**	40	ug/kg	1000		80	70-115	5	30	
Phenanthrene	**66.1**	5.0	ug/kg	80.0		83	70-115	11	30	
Pyrene	**187**	5.0	ug/kg	200		94	85-120	2	30	
Surrogate: 2-Methylanthracene	*87.2*		*ug/kg*	*100*		*87*	*50-115*			
Matrix Spike Analyzed: 06/18/02 (P2F1317-MS1)					**Source: PLF0288-04**					
Acenaphthene	**1790**	50	ug/kg	2000	ND	90	65-115			
Acenaphthylene	**956**	200	ug/kg	1000	ND	85	65-125			
Anthracene	**31.8**	2.0	ug/kg	40.0	ND	79	55-115			
Benz(a)anthracene	**86.1**	2.0	ug/kg	100	ND	86	50-140			
Benzo(a)pyrene	**68.6**	2.0	ug/kg	100	ND	69	50-120			C2
Benzo(b)fluoranthene	**34.3**	5.0	ug/kg	40.0	ND	83	50-150			C1b
Benzo(g,h,i)perylene	**129**	5.0	ug/kg	160	ND	81	50-155			C1f
Benzo(k)fluoranthene	**32.7**	2.0	ug/kg	40.0	ND	82	50-140			
Chrysene	**77.3**	5.0	ug/kg	100	ND	77	50-145			
Dibenz(a,h)anthracene	**340**	5.0	ug/kg	400	ND	85	50-150			C1d
Fluoranthene	**78.2**	5.0	ug/kg	100	ND	78	50-135			
Fluorene	**169**	5.0	ug/kg	200	ND	84	65-115			
Indeno(1,2,3-cd)pyrene	**78.7**	5.0	ug/kg	100	ND	79	50-140			
Naphthalene	**808**	40	ug/kg	1000	ND	81	65-115			
Phenanthrene	**59.3**	5.0	ug/kg	80.0	ND	74	50-120			
Pyrene	**184**	5.0	ug/kg	200	ND	92	55-155			
Surrogate: 2-Methylanthracene	*87.8*		*ug/kg*	*100*		*88*	*50-115*			
Matrix Spike Dup Analyzed: 06/18/02 (P2F1317-MSD1)					**Source: PLF0288-04**					
Acenaphthene	**1710**	50	ug/kg	2000	ND	86	65-115	5	30	
Acenaphthylene	**928**	200	ug/kg	1000	ND	82	65-125	3	30	
Anthracene	**31.6**	2.0	ug/kg	40.0	ND	78	55-115	0.6	30	
Benz(a)anthracene	**89.9**	2.0	ug/kg	100	ND	90	50-140	4	30	
Benzo(a)pyrene	**73.2**	2.0	ug/kg	100	ND	73	50-120	6	30	C2
Benzo(b)fluoranthene	**35.7**	5.0	ug/kg	40.0	ND	87	50-150	4	30	C1b
Benzo(g,h,i)perylene	**137**	5.0	ug/kg	160	ND	86	50-155	6	30	C1f
Benzo(k)fluoranthene	**34.3**	2.0	ug/kg	40.0	ND	86	50-140	5	30	
Chrysene	**81.5**	5.0	ug/kg	100	ND	82	50-145	5	30	
Dibenz(a,h)anthracene	**353**	5.0	ug/kg	400	ND	88	50-150	4	30	C1d

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Project Manager

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STL Los Angeles 1721 S Grand Avenue Santa Ana, CA 92706 Attention: Diane Suzuki	Client Project ID: E2F010157 Report Number: PLF0033	Sampled: 05/31/02 Received: 06/04/02

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: P2F1317 Extracted: 06/13/02										
Matrix Spike Dup Analyzed: 06/18/02 (P2F1317-MSD1)					**Source: PLF0288-04**					
Fluoranthene	**78.1**	5.0	ug/kg	100	ND	78	50-135	0.1	30	
Fluorene	**167**	5.0	ug/kg	200	ND	84	65-115	1	30	
Indeno(1,2,3-cd)pyrene	**83.8**	5.0	ug/kg	100	ND	84	50-140	6	30	
Naphthalene	**817**	40	ug/kg	1000	ND	82	65-115	1	30	
Phenanthrene	**61.7**	5.0	ug/kg	80.0	ND	77	50-120	4	30	
Pyrene	**182**	5.0	ug/kg	200	ND	91	55-155	1	30	
Surrogate: 2-Methylanthracene	*89.2*		*ug/kg*	*100*		*89*	*50-115*			

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STL Los Angeles 1721 S Grand Avenue Santa Ana, CA 92706 Attention: Diane Suzuki	Client Project ID: E2F010157 Report Number: PLF0033	Sampled: 05/31/02 Received: 06/04/02

METHOD BLANK/QC DATA

DATA QUALIFIERS AND DEFINITIONS

C1 Calibration Verification recovery was above the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form. 117.07

C2 Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form 79.60

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported.

RPD Relative Percent Difference

Nicole Beck For Debbie Fuller
Project Manager

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Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager: D. Suzuki	Date: 06/03/02	Chain of Custody Number: 128408
Address	Telephone Number (Area Code)/Fax Number: (714) 258-8610 Ext 309	Lab Number: E2F040157	Page 1 of 1
City / State / Zip Code	Site Contact	Lab Contact: D. Suzuki	
Project Name and Location (State)	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): 8310

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	HNO3	HCl	NaOH	ZnAc/NaOH	8310	Special Instructions/ Conditions of Receipt
SP-37	05/31/02	1815				Y							2	PLF0033-01
SP-36	↓	1830				Y							2	-02
SP-38	↓	1708				Y							2	-03

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 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other June 10th

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	06/03/02	1345	1. Received By		
2. Relinquished By			2. Received By	06/04/02	
3. Relinquished By 06/04/02			3. Received By 06/04/02	06/04/02	10:38 AM

Comments: Temp 10°C

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

0000094

BOE-C6-0003372

Appendix E

Well Decommissioning Report

HALEY & ALDRICH

WELL DECOMMISSIONING REPORT

Well No.
WCC-3D

PROJECT	Boeing Realty Corporation Former C-6 Facility	H&A FILE NO.	
LOCATION	Los Angeles, California	PROJECT MGR.	S.P. Zachary
CLIENT	Boeing Realty Corporation	FIELD REP.	H. Hernandez
CONTRACTOR	West Hazmat Drilling	REMOVAL DATE	5/31/2002

Well Designation	WCC-3D
Well Diameter	4-inch I.D. PVC
Decommissioning Technique	Over Drill, Tremie Grout
Depth to Groundwater	64.16 feet
Total Depth of Well	141 feet

	Cement (Lbs. - Bags*)	Additive (Lbs. - Gals.)	Water (Gals.)	Final Quantity (Gals.)
Type	Portland Cement 3-bags	Hydrogel 1.5 bags	40 gals	50 gals
Manufacturer	Colton Manufacturing	Wyo-Ben		
Quantity	43 bags	21.5 bags	572 gals	720 gals

*1 Bag = 94 Lbs.

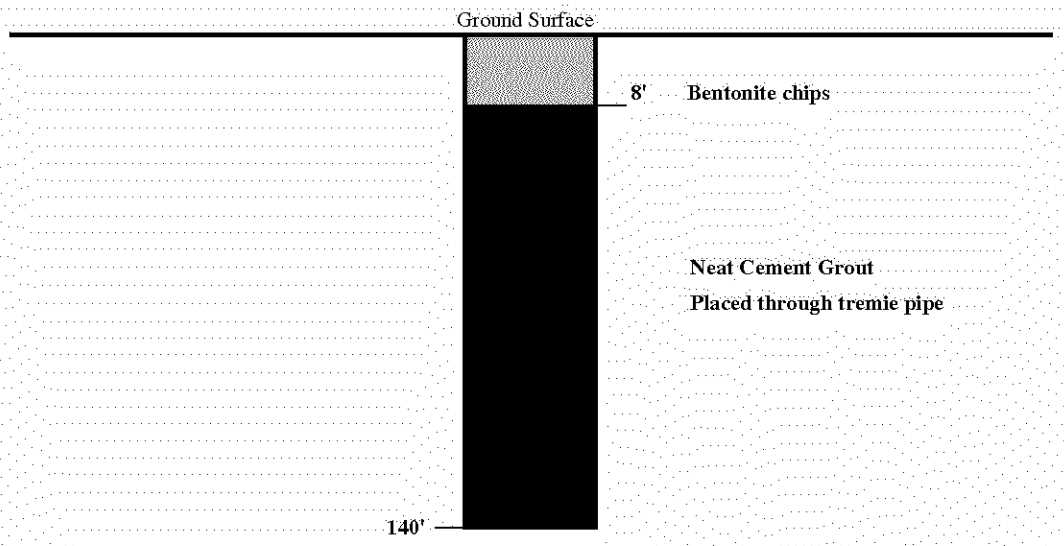
Exlanation of Well Decommissioning Techniques:

A. Shallow Wells:

These wells may either be removed by pulling the casing out of the ground, or plugged in-place using bentonite grout. If the well is plugged in-place, the casing must be plugged above the screen using a bentonite/cement grout (see grout placement guidelines), and the casing should be cut-off a minimum of 3 feet below the ground surface. If the well is pulled, care should be taken to compact the soils to avoid significant ground subsidence.

B. Deep Wells: Deep wells must be plugged using a bentonite/cement grout, which will fill the casing and annular space (see grout placement guidelines). The casing must be terminated 3 feet below the ground surface.

Sketch:



COMMENTS: The destruction was performed by pulling the PVC well casing and screen, over-drilling with 11 1/4-inch O.D. hollow-stem augers, and grouting through a 1 1/2-inch tremie pipe placed on the bottom of the borehole through the augers. The grout was allowed to settle over night and the borehole was topped off to 5-feet bgs with bentonite chips.

Form # 3010