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

WELL DESTRUCTION REPORT

GROUNDWATER MONITORING WELL BL-1

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

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

Date: **February 11, 2002**

Re: **Well Destruction Report, Groundwater Monitoring Well BL-1, 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 BL-1. Groundwater monitoring well BL-1 was located along the western boundary on Parcel B 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 BL-1 was installed on February 2, 1999, by Arcadis Geraghty & Miller (Arcadis) as part of an off-site groundwater characterization program of the former International Light Metals (ILM) property immediately west of the Site. Groundwater monitoring well BL-1 was constructed of 2-inch diameter Schedule-40 PVC screen and casing, extended to a depth of approximately 81.5 feet, and had a screened interval from approximately 61.5 to 81.5 feet below ground surface (bgs).

The Department of Toxic Substances Control (DTSC) is the lead environmental agency for activities at the ILM facility. TRC, the ILM property environmental contractor, submitted a letter to the DTSC on January 10, 2002, notifying the DTSC of the closure of groundwater monitoring well BL-1. TRC reported that "the well will be closed according to the previously approved procedures in our letter dated December 28, 1999 and the DTSC's approval letter dated January 5, 2000." Copies of the two TRC letters and the DTSC's approval letter are included as Appendix A.

FIELD ACTIVITIES

The scope of work consisted of obtaining a permit, monitoring and sampling groundwater monitoring well BL-1, submitting the groundwater sample to the laboratory for analysis, and well destruction activities. These tasks are discussed below.

Well destruction activities were performed on January 15 and 16, 2002 under a permit issued by the Los Angeles County Department of Health Services (DHS).

Groundwater Monitoring and Sampling

TAIT Environmental Management, Inc. (Tait), BRC's groundwater monitoring and sampling subcontractor, gauged and sampled BL-1 on January 14, 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)
BL-1	58.34	70.81	-12.47

After the water level was gauged, the groundwater monitoring well 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 6 gallons) were purged from BL-1 and placed in a Department of Transportation (DOT) approved 55-gallon drum. The groundwater monitoring and sampling data sheet is included as Appendix B.

Upon completion of well purging, groundwater samples (one primary groundwater sample, one equipment blank and one trip blank) were collected using a disposable bailer with a bottom-emptying device. Ten 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. Groundwater samples were analyzed for volatile organic compounds (VOCs), including TCE, by EPA Method 8260B. The primary groundwater sample was also analyzed for hexavalent chromium by EPA Method 7196. Groundwater analytical results are included in Appendix C.

Groundwater Sampling Results

Based on the results of the laboratory analyses of groundwater samples collected from BL-1, concentrations of the two primary compounds of potential concern found at the ILM facility are summarized in the following table. Appendix D contains a copy of the laboratory analytical report.

Analyte	Concentration in BL-1	Units
Hexavalent chromium	< 0.02	mg/l
Trichloroethene	1.8	µg/l

mg/l = milligrams per liter
µg/l = micrograms per liter

BOE-C6-0000895

Well Destruction

West Hazmat Drilling, Inc. (WHD) was contracted by Haley & Aldrich to destroy the well. The 2-inch PVC casing and screen was pulled out of the borehole (intact). The existing borehole was destroyed by overdrilling the grout and sand pack with an 11¼-inch outside diameter (OD) auger to a total depth of approximately 85 feet bgs. 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. The unit was calibrated on January 15, 2002 using a 97 parts per million isobutylene in air mixture. PID readings did not exceed 0.5 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 550 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 10 feet bgs. The borehole was filled from 10 feet bgs to 5 feet bgs with Redi-mix concrete. The following observations were recorded during the destruction activities:

Well Destruction Observations for BL-1

Overdrilling Observations	**BL-1**
Original Depth of Well, feet (height above ground, feet)	81.5 (2.5)
Depth of overdrilling (feet)	85
Blank casing removed (condition) in feet	64 (intact)
Screened casing removed (condition) in feet	20 (intact)
Auger depth before cuttings observed, feet bgs	0
Bentonite – grout/sand mix removed, cubic yards	Approximately 3
Backfilling Observations	
Backfill mixture, Portland (bags)/water (gallons)	50/440
Total quantity of Portland used (bags)	50
Total Quantity of Red-mix used (bags)	Approximately 5

A well decommissioning report is included in Appendix C.

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 (BL-1-70' [the laboratory report designation is BL-1-10]) 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. Title 22 metals, VOCs, TPH and PAHs were not detected in soil sample BL-1-70'. The analytical report for this sample is also included in Appendix D. The soil and wastewater are pending disposition by BRC.

BOE-C6-0000896

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

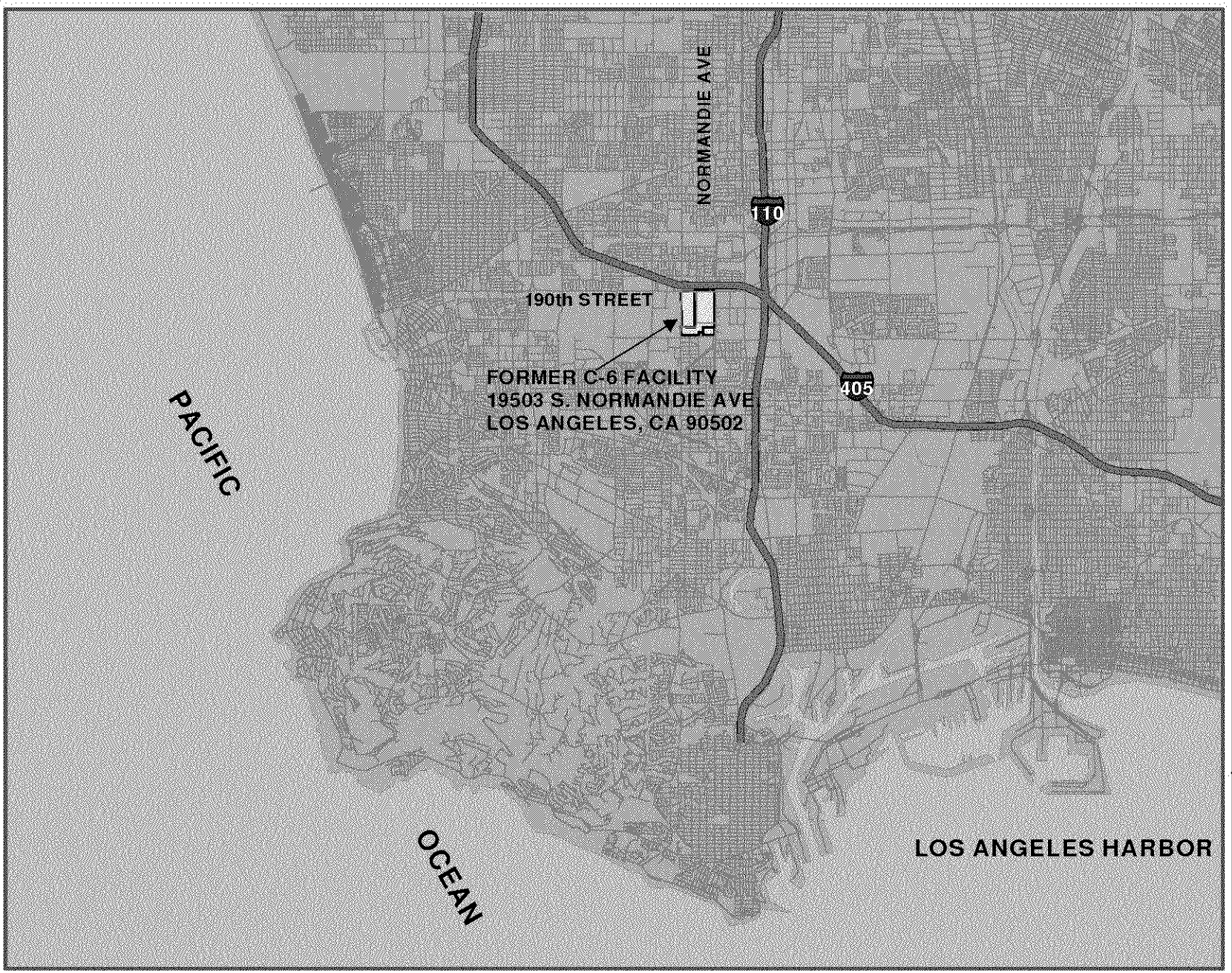
Attachments:

Figure 1 - Site Location Map
Figure 2 – BL-1 Location Map

Appendix A – TRC and DTSC Letters
Appendix B - Groundwater Sampling Data Sheet
Appendix C – Well Decommissioning Report
Appendix D – Laboratory Report & Chain of Custody

BOE-C6-0000897

FIGURES



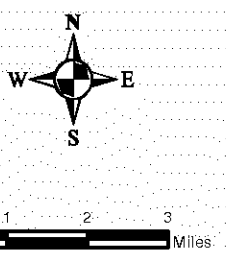
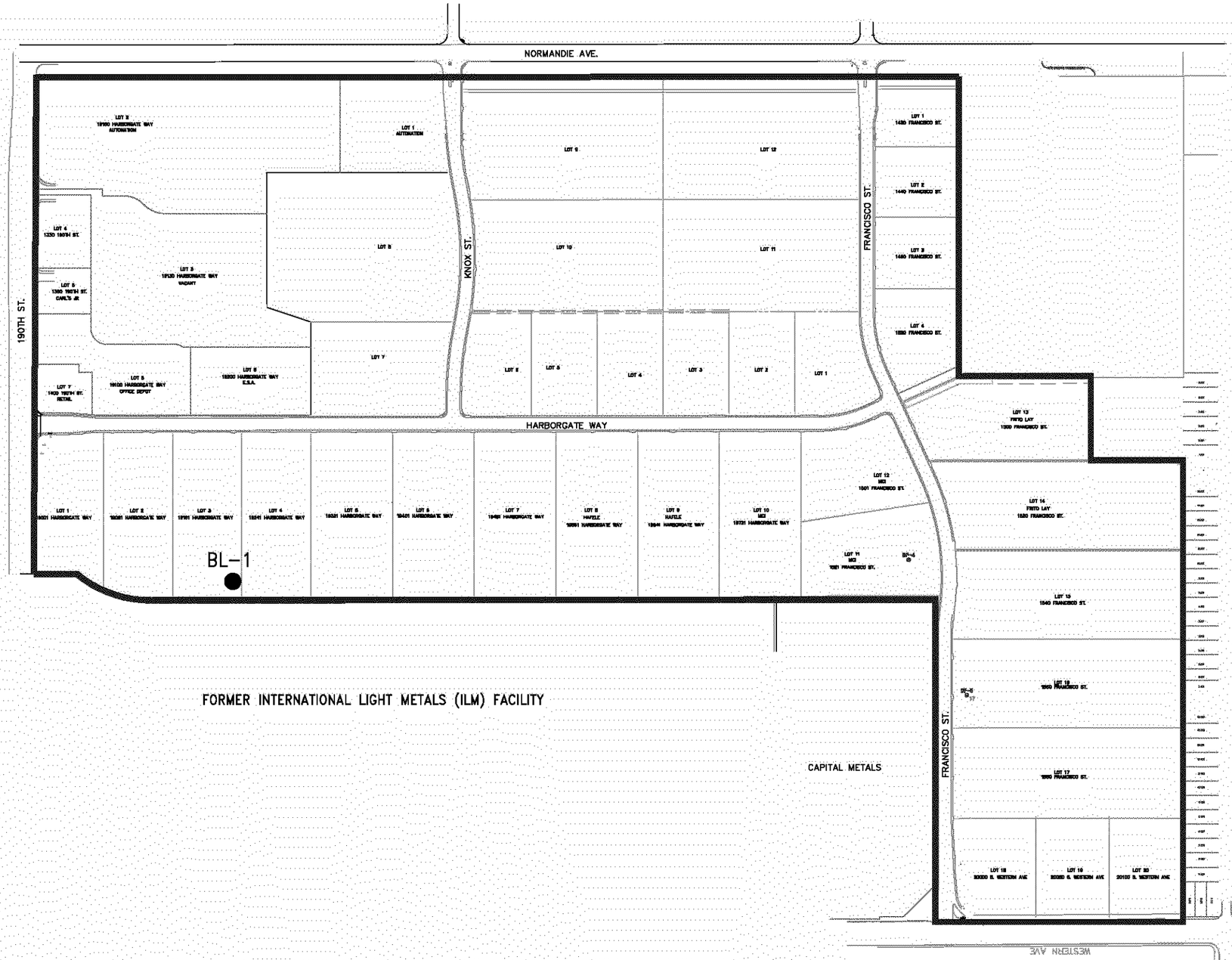


Figure 1
Site Location Map

Boeing Reality 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 : 20 December 2001



LEGEND

- GROUNDWATER MONITORING WELL BL-1
- FORMER C-6 FACILITY BOUNDARY

N

0 100 200 400

FEET

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

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

FIGURE: 2

FORMER BL-1 LOCATION MAP

SCALE: AS SHOWN		PROJECT: 27608
DRAWN: SAL	REVIEWED: -	DATE: 8 FEB. 2002

APPENDIX A

TRC AND DTSC LETTERS

TRC

Customer-Focused Solutions

January 10, 2002

Project No. 30779 (99-200)

Ms. Chia Rin Yen
Hazardous Substances Scientist
Department of Toxic Substances Control
1011 North Grandview Avenue
Glendale, California 91201

Notification of Offsite Well Closure (Well BL-1)
Former International Light Metals Facility
Lockheed Martin Corporation
Torrance, California

Dear Ms. Yen:

Pursuant to our e-mail on Thursday, January 10, 2002, this letter is to notify the Department of Toxic Substances Control (DTSC) of the plans to close one additional offsite well associated with the Ground Water RCRA Facility Investigation (GWRFI) at the former International Light Metals (ILM) facility in Torrance, California.

Currently, there are two (2) remaining temporary offsite ground water monitoring wells on the former Boeing Realty Corporation (BRC) property located immediately to the east of the former ILM facility. Eight (8) offsite wells were originally installed in February 1999. However, the former offsite property owner, BRC, has sold the property, and six of the wells (Wells BL-2, BL-4, -5, -6, -7 and -8; see attached Figure 1) were located in the planned "footprint" of buildings or other restricted areas to be developed. For those reasons, TRC requested and received the DTSC's approval to close those ground water monitoring wells (the wells were closed in January and May 2000 and May and June 2001).

One additional well, BL-1, is in the location of a building for which construction is starting (property owned by King's Hawaiian). Therefore, this well will be closed on January 15, 2002. The well will be closed according to the previously approved procedures in our letter dated December 28, 1999 and the DTSC's approval letter dated January 5, 2000. One exception will be the grout seal used to backfill the well boring after overdrilling will be a neat cement rather than a bentonite/cement mixture.

Please call us if you have any questions.

Sincerely,

Ronald V. Giraudi, REA II 20054
Project Director

RVG/SR:rw
Attachment

cc: Yolanda Garza, DTSC
William Rowe, DTSC
John Geroch, California RWQCB - Los Angeles Region
Jennifer Stevens, Lockheed Martin Corporation
Mario Stavale, Boeing Realty Corporation
Stephanie Sibbett, Boeing Realty Corporation

21 Technology Drive • Irvine, California 92618
Telephone 949-727-9336 • Fax 949-727-7399

DVL
FILE

Department of Toxic Substances Control

Edwin F. Lowry, Director
1011 N. Grandview Avenue
Glendale, California 91201

Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Gray Davis
Governor

January 5, 2000

Mr. Ronald Giraudi
TRC Environmental Solutions, Inc.
21 Technology Drive
Irvine, California 92618

CLOSURE OF OFFSITE WELLS, INTERNATIONAL LIGHT METALS, LOCKHEED MARTIN CORPORATION, TORRANCE, CALIFORNIA
EPA ID NUMBER: CAD 030 398 622

Dear Mr. Giraudi:

The former International Light Metals (ILM) facility obtained an Acknowledgment of Termination and Agreement to Record Preservation and Reservation of Rights from the Department of Toxic Substances Control (DTSC) on May 13, 1999 indicating the contaminations to soil at the ILM had been successfully completed through the Corrective Action Administrative Agreement on Consent, Docket HWCA: 94-T0672. The continuing investigation and remediation of groundwater at the ILM site (and offsite) has been established through a Corrective Action Consent Agreement, Docket HWCA: P1-98/99-002 (Consent Agreement).

DTSC received a letter dated December 28, 1999 from TRC Environmental Solutions, Inc. (TRC) requesting that 4 of the 8 monitoring wells (BL-5, -6, -7 and -8) on the Boeing Realty Corporation (BRC) property be closed to facilitate the sales transaction of BRC. In the letter, you stated the reason for this request is that these 4 wells will be located in the footprint of buildings to be constructed by the prospective purchasers of the BRC property. DTSC will accommodate the property owner, BRC, by granting your request. Since the corrective action through the Consent Agreement is at the beginning stages, DTSC would like to further delineate the limitations of granting this request:

1. The RCRA Facility Investigation (RFI) Report was submitted by you on December 30, 1999. DTSC is in the process of reviewing and has not approved the RFI Report. Thus, RFI is considered open and not complete.

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2. Since corrective action has not been fully evaluated, additional monitoring wells may be required and to be installed immediately if DTSC determines that further data is needed.

3. The mission of DTSC is to protect human health and the environment. At any time during the corrective action process, wells will be installed at any location for remediation and/or monitoring purpose. Therefore, DTSC cannot guarantee, but will attempt to compromise with the property owner on locations, if necessary.

4. All terms in the December 28, 1999 TRC letter will be adhered.

5. TRC will convey to BRC that the prospective new owner is expected to grant access to the property for the purpose of this corrective action.

The original project manager is back from her leave of absence, although Peter Chen still will be available during the transition. From now on please refer this project to Ms. Chia Rin Yen at (818) 551-2182 or e-mail at cyen@dtsc.ca.gov.

If you have any question, please contact Chia Rin Yen at the above contact resources.

Sincerely,

Yolanda M. Garza
Unit Chief
Southern California Permitting Branch

cc: Mr. Mario Stavale
Boeing Realty Corporation
4060 Lakewood Boulevard, 6th Floor
Long Beach, California 90808-1700

Mr. Augustine Anijielo
Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013

cfstwf.cls

cc: Ms. Joann Ornelas
Integrated Environmental Services, Inc.
22932 El Toro Road
Lake Forest, California 92630

Mr. Will Rowe
Department of Toxic Substances Control
P.O. Box 806
Sacramento, California 95812-0806

Ms. Chia Rin Yen
Department of Toxic Substances Control
1011 North Grandview Avenue
Glendale, California 91201-2205

cfstwl.cls

TRC

December 28, 1999

Project No. 99-200

Mr. Peter Chen
Hazardous Substances Engineer
Department of Toxic Substances Control
1011 North Grandview Avenue
Glendale, California 91201

Request for Closure of Offsite Wells
Former International Light Metals Facility
Lockheed Martin Corporation
Torrance, California

Dear Mr. Chen:

Pursuant to our telephone conversation on Thursday, December 23, 1999, with yourself and Will Rowe, this letter is to request closure of offsite wells associated with the Ground Water RCRA Facility Investigation (GWRFI) at the former International Light Metals (ILM) facility in Torrance, California.

Currently, there are eight (8) temporary offsite ground water monitoring wells on the Boeing Realty Corporation (BRC) property located immediately to the east of the former ILM facility. These wells were installed in February 1999 and were sampled in March and July 1999. The data and results from these wells along with the onsite wells at the former ILM facility will be submitted to the DTSC in a GWRFI report next week.

However, the offsite property owner, BRC, is in the process of selling this property, and four of the wells (Wells BL-5, -6, -7 and -8; please refer to the enclosed figure) will be located in the "footprint" of buildings which will be constructed by purchasers of the property. For this reason, LMC requests the DTSC's approval to close these ground water monitoring wells. Should the DTSC determine, at a later time, that additional data is needed from monitoring well(s) in the general vicinity of the former Wells BL-5, -6, -7 and -8, new monitoring well(s) will be installed in the general proximity of the former well(s). However, these new well(s) shall be installed in areas outside of the proposed buildings which do not interfere with the new property owner's day-to-day operations (i.e., in parking lots or landscape/berm areas), as approved by the DTSC.

At the present time, BRC does not anticipate that Wells BL-1, -2, -3 or -4 will interfere with buildings which are anticipated to be constructed by the purchasers. However, should any of these wells be found to be in the "footprint" of a proposed building, then LMC, with appropriate notice to DTSC, would proceed to close the affected well(s). As in the case of Wells BL-5, -6, -7 and -8, should the DTSC determine that additional data is needed from wells located in general vicinity of former wells, BL-1, -2, -3 or -4, then new wells would be installed based upon the protocol set forth in the preceding paragraph.

As part of the closure procedure, the following additional work will be performed:

- Ground water level measurements will be collected from the eight (8) offsite wells prior to the closure of wells.

TRC Environmental Solutions, Inc.
21 Technology Drive • Irvine, California 92618
Telephone [redacted]727-9336 • Fax [redacted]727-7399
949 949

Customer-Focused Solutions

- For those wells to be closed, a ground water sample will be collected prior to closure and analyzed for trichloroethene (TCE) by EPA Method 8260 and for hexavalent chromium by EPA Method 7196.
- Wells will be closed by over drilling the well casing, screen, grout and sand pack. The wells will be backfilled by tremie placement of grout from the bottom of the borehole to within 10 feet of the surface (or as directed by the County of Los Angeles). The grout will be a mixture of 5 percent by weight bentonite (prehydrated) and cement. The mixture will be prepared as dry as possible. The upper 10 feet will be completed with concrete (or as directed by the County of Los Angeles).

Please review this information and call us with any questions and/or your approval.

Sincerely,

Ronald V. Giraudi, R.E.A.
Project Director

Jeff Hensel, R.G. 5759
Project Geologist

RVG/JH/RAL:mc

cc: Yolanda Garza, DTSC
William Rowe, DTSC
Augustine Anijielo, California RWQCB - Los Angeles Region
Mario Stavale, Boeing Realty Corporation
Joann Ornelas, Integrated Environmental Services, Inc.

TRC
Customer-focused Solutions

APPENDIX B

GROUNDWATER SAMPLING DATA SHEET

TAIT Environmental Management, Inc

GROUNDWATER SAMPLING DATA SHEET

WELL ID BL-1

PROJECT NAME: Boeing Former C-6	DATE: 1-14-05
PROJECT NO.: EM2303	PREPARED BY: CB
AMBIENT AIR TEMPERATURE (°C): 60s	WEATHER (SKY/WIND DIRECTION-SPEED): Sunny
MEASURING POINT (MP) ELEVATION (FMSL): TOC	

WELL TD (FBMP)	SWL (FBMP)	WATER COL. (FT)	WELL DIAM. (IN)			GALLONS/FOOT			1 CASING VOL. (GAL)	3 CASING VOL. (GAL)
						(2)	4	6		
93.54	70.81	12.73	(2)	4	6	0.16	0.65	1.47	2.1	6.3

TOP OF SCREEN (FBMP)	BOTTOM OF SCREEN (FBMP)	LENGTH OF SCREEN (FBMP)	AIR MONITORING PID/FID (ppm)		
			BACKGROUND	VAULT	BREATHING

TIME	FLOW RATE (GPM)	VOLUME/ TIME	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	T (°C)/ DO (mg/l)	Ph/ Turbidity (NTU)	CONDUCTIVITY (umhos/cm)	DO (mg/l)/ ORP (+/-)	SALINITY (%)	PID/FID (ppm)
16:00	–		0	–	–	22.1/10.48	6.95/>999	3.04 mS/cm	–	–	–
16:05	.66	2g/3m	1	2	–	24/11.25	6.95/>999	3.14 mS/cm	–	–	–
16:09	.33	2g/6m	2	2	–	24/10.07	6.94/357	2.98 mS/cm	–	–	–
16:14	0.4	2g/5m	3	2	–	23.5/	6.86/351	3.05 mS/cm	–	–	–

PURGING						SAMPLING		
PURGE START	PURGE END	AVERAGE Q	GALLONS PURGED	CASING VOLUMES PURGED	WL AT END OF PURGING (FBMP)	START SAMPLING TIME	STOP SAMPLING TIME	SAMPLE COLLECTION TIME
16:00	16:14	.46	6	3	70.81	16:27	16:30	16:30

RECOVERY DEPTH (FBMP) AND TIME	80% RECOVERY DEPTH (FBMP)	WL AT SAMPLING (FBMP)
70.81	–	70.81

NOTES: (color, sand/silt content, wellhead/vault condition, factor affecting sample representativeness)

FMSL – Feet above/below sea level; FBMP – Feet below measuring point

M:\TEM2\Clients\BOEING\Long Beach\Confirmation & West Ramp wells\FIELD FORMS\BRC_C-1 LONG BEACH\GROUNDWATER SAMPLING DATA SHEET-1page.doc

APPENDIX C

WELL DECOMMISSIONING REPORT

HALEY & ALDRICH

WELL DECOMMISSIONING REPORT

Well No.
BL-1

PROJECT	Boeing Realty Corporation Former C-6 Facility	**H&A FILE NO.**	27285-012
LOCATION	Los Angeles, California	**PROJECT MGR.**	S.P. Zachary
CLIENT	Boeing Realty Corporation	**FIELD REP.**	T.S. Hammond
CONTRACTOR	West Hazmat Drilling	**REMOVAL DATE**	1/15/2002

Well Designation	BL-1
Well Diameter	2-inch I.D. PVC
Decommissioning Technique	Over Drill, Tremie Grout
Depth to Groundwater	70.18 feet
Total Depth of Well	81.5 feet

	Cement (Lbs. - Bags*)	Additive (Lbs. - Gals.)	Water (Gals.)	Final Quantity (Gals.)
Type	Portland Cement 5-bags	Hydrogel 1.5-lbs	40 gals	50 gals
Manufacturer	Colton Manufacturing	Wyo-Ben		
Quantity	50 bags	16.5 lbs	440 gals	550 gals

Exlanation of Well Decommissioning Techniques:

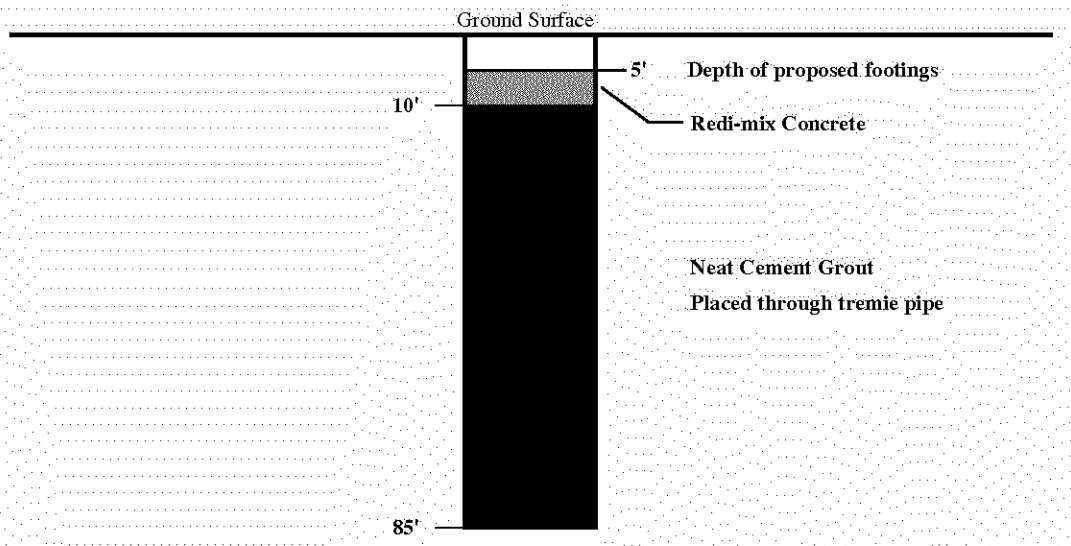
A. Shallow Wells:

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.

***1 Bag = 94 Lbs.**

Sketch:



COMMENTS: The borehole for the well was drilled with 8 1/4-inch O.D. hollow-stem augers.

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 ready-mix concrete.

Form # 3010

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

January 21, 2002

STL LOT NUMBER: E2A140197
NELAP Certification Number: 01118CA
PO/CONTRACT: 05220-SEV001

Mehmet Pehlivan
Tait Environmental
701 Park Center Drive
Santa Ana, CA 92705

Dear Mr. Pehlivan,

This report contains the analytical results for the three samples received under chain of custody by STL Los Angeles on January 14, 2002. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. 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 000035 total pages in this report.

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

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0000913

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES **Severn Trent Laboratories, Inc.**

STL-4124 (0700)

Client: Tait Environmental Management	Project Manager: Mehmet Pehlivan	Date: 1-14-02	Chain of Custody Number: 050086
Address: 701 N. Parkcenter Drive	Telephone Number (Area Code)/Fax Number: 714-560-8613	Lab Number: E2A140197	Page 1 of 1
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact: Mehmet P.	Lab Contact: Diane Suzuki	
Project Name and Location (State): Former C-6 Torrance	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: EM2303			

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): EPA 8260B	EPA 7196	Special Instructions/ Conditions of Receipt
BLI_011402_1630	1-14-02	16:30		X						3	3				X		
BLI_011402_1630	1-14-02	16:30		X				1								X	
BLI_011402_0004	1-14-02	15:15		X							3				X		
BLI_011402_0001 (trip)	1-14-02	—		X				3							X		

000002

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

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

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	1/14/02	1915	1. Received By: [signature]	1/14/02	1915
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

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 1/14/02

Quantims Lot #: E2A140197
Quote #: 40334
Client Name: TATT
Project: Boeing C-6 Torrance
Received by: Royce S.
Date/Time Received: 1/14/02 19:15
Delivered by : [X] Client [ ] Airborne [ ] Fed Ex [ ] DHL [ ] In-House Courier [ ] Rey B. [ ] UPS [ ] DES [ ] Other

Initial / Date

Custody Seal Status: [ ] Intact [ ] Broken [X] None ..... AR 1/14/02
Custody Seal #(s): [X] No Seal # .....
Sample Container(s): [X] STL-LA [ ] Client [ ] N/A .....
Temperature(s) (Cooler/blank) in °C: 4.3 Correction factor -0.1°C (Corrected Temp.) 4.2°C
Thermometer Used : ID: B [X] IR (Infra-red) [ ] Digital (Probe) .....
Samples: [X] Intact [ ] Broken [ ] Other .....
Anomalies: [X] No [ ] Yes (See Clouseau) .....
Labeled by .....
Labeling checked by .....

Turn Around Time: [ ] RUSH-24HR [ ] RUSH-48HR [ ] RUSH-72HR [X] NORMAL .....
Short-Hold Notification: [ ] Ph [X] Wet Chem [ ] Metals (Filter/Pres) [ ] Encore [ ] N/A ...
Outside Analysis(es) (Test/Lab/Date Sent Out) : None

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

Fraction	1	2->3									PH
VOAh /*	3	3									N/A
250mL PB	1	—									

h:HCl na:Sodium Hydroxide 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: 1/14/02 REVIEWED BY/DATE: 1/14/02

PRC Ver. 6 081401 KRF

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000003

BOE-C6-0000915

SEVERN
TRENT
SERVICES

Analytical Report

000004

SAMPLE SUMMARY

E2A140197

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
ERMDC	001	BL1_011402_1630	01/14/02	16:30
ERMDD	002	BL1_011402_0004	01/14/02	15:15
ERMDE	003	BL1_011402_0001	01/14/02	

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.

CLIENT DATA SUMMARY

Lot #: E2A140197

TAIT ENVIRONMENTAL
Boeing C-6/Tait EM2303
Project: 05160-SEV002

Date Reported: 1/21/02

Client Sample ID: BL1_011402_1630
Sample #: 001 Date Sampled: 01/14/02 16:30 Date Received: 01/14/02 Matrix: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
VOLATILE ORGANICS BY GC/MS						
Acetone	ND	10	ug/L	SW846 8260B	01/15/02	2015487
Benzene	**1.1**	**1.0**	**ug/L**	**SW846 8260B**	**01/15/02**	**2015487**
Bromobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromochloromethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromoform	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromomethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B	01/15/02	2015487
2-Butanone	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Dichlorodifluoromethan	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B	01/15/02	2015487
Chloroethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
Chloroform	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Chloromethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Iodomethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1-Dichloroethane	**0.56 J**	**1.0**	**ug/L**	**SW846 8260B**	**01/15/02**	**2015487**
cis-1,2-Dichloroethene	**10**	**1.0**	**ug/L**	**SW846 8260B**	**01/15/02**	**2015487**
trans-1,2-Dichloroethe	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Vinyl chloride	**6.8**	**0.50**	**ug/L**	**SW846 8260B**	**01/15/02**	**2015487**
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
2-Hexanone	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Isopropylbenzene	**0.38 J**	**1.0**	**ug/L**	**SW846 8260B**	**01/15/02**	**2015487**
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487

(Continued on next page)

CLIENT DATA SUMMARY

TAIT ENVIRONMENTAL
Boeing C-6/Tait EM2303
Project: 05160-SEV002

Lot #: E2A140197

Date Reported: 1/21/02

Client Sample ID: BL1_011402_1630
Sample #: 001 Date Sampled: 01/14/02 16:30 Date Received: 01/14/02 Matrix: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
VOLATILE ORGANICS BY GC/MS						
Methylene chloride	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Methyl tert-butyl ethe	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Styrene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,1,2-Tetrachloroeth	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,2,2-Tetrachloroeth	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Toluene	**1.6**	**1.0**	**ug/L**	**SW846 8260B**	**01/15/02**	**2015487**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,1-Trichloroethane	**0.69 J**	**1.0**	**ug/L**	**SW846 8260B**	**01/15/02**	**2015487**
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Trichloroethene	**1.8**	**1.0**	**ug/L**	**SW846 8260B**	**01/15/02**	**2015487**
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,2-Trichlorotrifluo ethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Acrolein	ND	20	ug/L	SW846 8260B	01/15/02	2015487
Acrylonitrile	ND	20	ug/L	SW846 8260B	01/15/02	2015487
Vinyl acetate	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Tetrahydrofuran	ND	10	ug/L	SW846 8260B	01/15/02	2015487
2-Chloroethyl vinyl et	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Bromofluorobenzene	96		%	SW846 8260B	01/15/02	2015487
1,2-Dichloroethane-d4	118		%	SW846 8260B	01/15/02	2015487
Toluene-d8	102		%	SW846 8260B	01/15/02	2015487

J Estimated result. Result is less than RL.

HEXAVALENT CHROMIUM						
Hexavalent Chromium	ND	0.020	mg/L	SW846 7196A	01/15/02	2015224

(Continued on next page)

CLIENT DATA SUMMARY

TAIT ENVIRONMENTAL
Boeing C-6/Tait EM2303
Project: 05160-SEV002

Lot #: E2A140197

Date Reported: 1/21/02

Client Sample ID: BL1_011402_0004
Sample #: 002 Date Sampled: 01/14/02 15:15 Date Received: 01/14/02 Matrix: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
VOLATILE ORGANICS BY GC/MS						
Acetone	ND	10	ug/L	SW846 8260B	01/15/02	2015487
Benzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromochloromethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromoform	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromomethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B	01/15/02	2015487
2-Butanone	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Dichlorodifluoromethan	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B	01/15/02	2015487
Chloroethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
Chloroform	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Chloromethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Iodomethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
trans-1,2-Dichloroethe	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Vinyl chloride	ND	0.50	ug/L	SW846 8260B	01/15/02	2015487
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
2-Hexanone	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Methylene chloride	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487

(Continued on next page)

CLIENT DATA SUMMARY

TAIT ENVIRONMENTAL
Boeing C-6/Tait EM2303
Project: 05160-SEV002

Lot #: E2A140197

Date Reported: 1/21/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Client Sample ID: BL1_011402_0004						
Sample #: 002 Date Sampled: 01/14/02 15:15 Date Received: 01/14/02 Matrix: WATER						
VOLATILE ORGANICS BY GC/MS						
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Methyl tert-butyl ethe	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Styrene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,1,2-Tetrachloroeth	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,2,2-Tetrachloroeth	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Toluene	**0.32 J**	**1.0**	**ug/L**	**SW846 8260B**	**01/15/02**	**2015487**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Trichloroethene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,2-Trichlorotrifluo ethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Acrolein	ND	20	ug/L	SW846 8260B	01/15/02	2015487
Acrylonitrile	ND	20	ug/L	SW846 8260B	01/15/02	2015487
Vinyl acetate	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Tetrahydrofuran	ND	10	ug/L	SW846 8260B	01/15/02	2015487
2-Chloroethyl vinyl et	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Bromofluorobenzene	92		%	SW846 8260B	01/15/02	2015487
1,2-Dichloroethane-d4	109		%	SW846 8260B	01/15/02	2015487
Toluene-d8	99		%	SW846 8260B	01/15/02	2015487

J Estimated result. Result is less than RL.

Client Sample ID: BL1_011402_0001						
Sample #: 003 Date Sampled: 01/14/02 Date Received: 01/14/02 Matrix: WATER						
VOLATILE ORGANICS BY GC/MS						
Acetone	ND	10	ug/L	SW846 8260B	01/15/02	2015487
Benzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487

(Continued on next page)

CLIENT DATA SUMMARY

TAIT ENVIRONMENTAL
Boeing C-6/Tait EM2303
Project: 05160-SEV002

Lot #: E2A140197

Date Reported: 1/21/02

Client Sample ID: BL1_011402_0001
Sample #: 003 Date Sampled: 01/14/02 Date Received: 01/14/02 Matrix: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
VOLATILE ORGANICS BY GC/MS						
Bromochloromethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromoform	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromomethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B	01/15/02	2015487
2-Butanone	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Dichlorodifluoromethan	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B	01/15/02	2015487
Chloroethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
Chloroform	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Chloromethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Iodomethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
trans-1,2-Dichloroethe	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Vinyl chloride	ND	0.50	ug/L	SW846 8260B	01/15/02	2015487
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
2-Hexanone	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Methylene chloride	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Methyl tert-butyl ethe	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487

(Continued on next page)

CLIENT DATA SUMMARY

TAIT ENVIRONMENTAL
Boeing C-6/Tait EM2303
Project: 05160-SEV002

Lot #: E2A140197

Date Reported: 1/21/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Client Sample ID: BL1_011402_0001						
Sample #: 003 Date Sampled: 01/14/02 Date Received: 01/14/02 Matrix: WATER						
VOLATILE ORGANICS BY GC/MS						
Styrene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,1,2-Tetrachloroeth	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,2,2-Tetrachloroeth	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Toluene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Trichloroethene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B	01/15/02	2015487
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,1,2-Trichlorotrifluo ethane	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	01/15/02	2015487
Acrolein	ND	20	ug/L	SW846 8260B	01/15/02	2015487
Acrylonitrile	ND	20	ug/L	SW846 8260B	01/15/02	2015487
Vinyl acetate	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Tetrahydrofuran	ND	10	ug/L	SW846 8260B	01/15/02	2015487
2-Chloroethyl vinyl et	ND	5.0	ug/L	SW846 8260B	01/15/02	2015487
Bromofluorobenzene	94		%	SW846 8260B	01/15/02	2015487
1,2-Dichloroethane-d4	114		%	SW846 8260B	01/15/02	2015487
Toluene-d8	102		%	SW846 8260B	01/15/02	2015487

TAIT ENVIRONMENTAL

Client Sample ID: BL1_011402_1630

GC/MS Volatiles

Lot-Sample #...:	E2A140197-001	**Work Order #...:**	ERMDC1AC	**Matrix.....:**	WATER
Date Sampled...:	01/14/02 16:30	**Date Received..:**	01/14/02 19:15	**MS Run #.....:**	2015275
Prep Date.....:	01/15/02	**Analysis Date..:**	01/15/02		
Prep Batch #...:	2015487	**Analysis Time..:**	17:35		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSC		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	**1.1**	**1.0**	**ug/L**	**0.30**
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Carbon tetrachloride	ND	0.50	ug/L	0.30
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Iodomethane	ND	2.0	ug/L	1.0
1,2-Dichlorobenzene	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
1,1-Dichloroethane	**0.56 J**	**1.0**	**ug/L**	**0.20**
cis-1,2-Dichloroethene	**10**	**1.0**	**ug/L**	**0.30**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Vinyl chloride	**6.8**	**0.50**	**ug/L**	**0.30**
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30

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TAIT ENVIRONMENTAL

Client Sample ID: BL1_011402_1630

GC/MS Volatiles

Lot-Sample #...: E2A140197-001 **Work Order #...:** ERMDC1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	**0.38 J**	**1.0**	**ug/L**	**0.30**
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	**1.6**	**1.0**	**ug/L**	**0.30**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	**0.69 J**	**1.0**	**ug/L**	**0.20**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	**1.8**	**1.0**	**ug/L**	**0.30**
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
Vinyl acetate	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	118	(65 - 135)
Toluene-d8	102	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: BL1_011402_0004

GC/MS Volatiles

Lot-Sample #...:	E2A140197-002	**Work Order #...:**	ERMDD1AA	**Matrix.....:**	WATER
Date Sampled...:	01/14/02 15:15	**Date Received..:**	01/14/02 19:15	**MS Run #.....:**	2015275
Prep Date.....:	01/15/02	**Analysis Date..:**	01/15/02		
Prep Batch #...:	2015487	**Analysis Time..:**	18:05		
Dilution Factor:	1				
Analyst ID.....:	015590	**Instrument ID..:**	MSC		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Carbon tetrachloride	ND	0.50	ug/L	0.30
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Iodomethane	ND	2.0	ug/L	1.0
1,2-Dichlorobenzene	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
1,1-Dichloroethane	ND	1.0	ug/L	0.20
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30

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TAIT ENVIRONMENTAL

Client Sample ID: BL1_011402_0004

GC/MS Volatiles

Lot-Sample #...: E2A140197-002 Work Order #...: ERMDD1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	**0.32 J**	**1.0**	**ug/L**	**0.30**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
Vinyl acetate	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	109	(65 - 135)
Toluene-d8	99	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: BL1_011402_0001

GC/MS Volatiles

Lot-Sample #...: E2A140197-003 Work Order #...: ERMDE1AA Matrix.....: WATER
Date Sampled...: 01/14/02 Date Received..: 01/14/02 19:15 MS Run #.....: 2015275
Prep Date.....: 01/15/02 Analysis Date..: 01/15/02
Prep Batch #...: 2015487 Analysis Time..: 17:06
Dilution Factor: 1
Analyst ID.....: 015590 Instrument ID..: MSC
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Carbon tetrachloride	ND	0.50	ug/L	0.30
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Iodomethane	ND	2.0	ug/L	1.0
1,2-Dichlorobenzene	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
1,1-Dichloroethane	ND	1.0	ug/L	0.20
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Hexachlorobutadiene	ND	1.0	ug/L	0.30

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TAIT ENVIRONMENTAL

Client Sample ID: BL1_011402_0001

GC/MS Volatiles

Lot-Sample #...: E2A140197-003 Work Order #...: ERMDE1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
Vinyl acetate	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	114	(65 - 135)
Toluene-d8	102	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: BL1_011402_1630

General Chemistry

Lot-Sample #...: E2A140197-001 **Work Order #...:** ERMDC **Matrix.....:** WATER
Date Sampled...: 01/14/02 16:30 **Date Received..:** 01/14/02 19:15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.020	mg/L	SW846 7196A	01/15/02	2015224

Dilution Factor: 1 Analysis Time..: 09:34 Analyst ID.....: 000022
Instrument ID..: W17 MS Run #.....: 2015106 MDL.....: 0.010

SEVERN
TRENT
SERVICES

QA/QC

000019

QC DATA ASSOCIATION SUMMARY

E2A140197

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 7196A		2015224	2015106
	WATER	SW846 8260B		2015487	2015275
002	WATER	SW846 8260B		2015487	2015275
003	WATER	SW846 8260B		2015487	2015275

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2A140197 **Work Order #...:** ERPE01AA **Matrix.....:** WATER
MB Lot-Sample #: E2A150000-487

Prep Date.....: 01/15/02 **Analysis Time..:** 09:32
Analysis Date..: 01/15/02 **Prep Batch #...:** 2015487 **Instrument ID..:** MSC
Dilution Factor: 1

Analyst ID.....: 015590

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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2A140197 **Work Order #...:** ERPE01AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	106	(80 - 130)

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E2A140197 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: ERM4W1AA		MB Lot-Sample #:	E2A150000-224	
	ND	0.020	mg/L	SW846 7196A	01/15/02	2015224

Dilution Factor: 1

Analysis Time..: 09:32 Analyst ID.....: 000022 Instrument ID..: W17

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2A140197 Work Order #...: ERPE01AC Matrix.....: WATER
LCS Lot-Sample#: E2A150000-487
Prep Date.....: 01/15/02 Analysis Date..: 01/15/02
Prep Batch #...: 2015487 Analysis Time..: 09:02
Dilution Factor: 1 Instrument ID..: MSC
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.65**	**ug/L**	**96**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**9.86**	**ug/L**	**99**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
Toluene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**
Trichloroethene	**10.0**	**10.9**	**ug/L**	**109**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d4	110	(65 - 135)
Toluene-d8	118	(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

General Chemistry

Client Lot #...: E2A140197 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium			Work Order #:	ERM4W1AC	LCS Lot-Sample#:	E2A150000-224	
	0.0500	0.0494	mg/L	99	SW846 7196A	01/15/02	2015224

Dilution Factor: 1

Analysis Time..: 09:30 Analyst ID.....: 000022 Instrument ID..: W17

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 #...: E2A140197 Work Order #...: ERPE01AC Matrix.....: WATER
LCS Lot-Sample#: E2A150000-487
Prep Date.....: 01/15/02 Analysis Date..: 01/15/02
Prep Batch #...: 2015487 Analysis Time..: 09:02
Dilution Factor: 1 Instrument ID..: MSC
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**96**	**(75 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**99**	**(70 - 140)**	**SW846 8260B**
Chlorobenzene	**105**	**(75 - 120)**	**SW846 8260B**
Toluene	**102**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**109**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d4	110	(65 - 135)
Toluene-d8	118	(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

General Chemistry

Client Lot #...: E2A140197 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: ERM4W1AC	LCS Lot-Sample#: E2A150000-224		
	99	(85 - 115)	SW846 7196A	01/15/02	2015224

Dilution Factor: 1

Analysis Time..: 09:30 Analyst ID.....: 000022 Instrument ID..: W17

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E2A140197	Work Order #...:	ERLV61AD-MS	Matrix.....:	WATER
MS Lot-Sample #:	E2A140155-002		ERLV61AE-MSD		
Date Sampled...:	01/09/02 09:30	Date Received..:	01/12/02 10:30	MS Run #.....:	2015275
Prep Date.....:	01/15/02	Analysis Date..:	01/15/02		
Prep Batch #...:	2015487	Analysis Time..:	19:04		
Dilution Factor:	1	Analyst ID.....:	015590	Instrument ID..:	MSC

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**9.19**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**9.06**	**ug/L**	**91**	**1.4**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**8.83**	**ug/L**	**88**		**SW846 8260B**
	ND	**10.0**	**9.05**	**ug/L**	**90**	**2.5**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.27**	**ug/L**	**93**		**SW846 8260B**
	ND	**10.0**	**9.40**	**ug/L**	**94**	**1.4**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.17**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**9.38**	**ug/L**	**94**	**2.3**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**10.2**	**ug/L**	**102**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**0.09**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
	105	(75 - 130)
1,2-Dichloroethane-d4	114	(65 - 135)
	118	(65 - 135)
Toluene-d8	98	(80 - 130)
	109	(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

General Chemistry

Client Lot #...: E2A140197 **Matrix.....:** WATER
Date Sampled...: 01/14/02 16:30 **Date Received..:** 01/14/02 19:15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium			WO#: ERMDC1AD-MS/ERMDC1AE-MSD				MS Lot-Sample #: E2A140197-001		
	ND	0.0500	0.0484	mg/L	97		SW846 7196A	01/15/02	2015224
	ND	0.0500	0.0484	mg/L	97	0.0	SW846 7196A	01/15/02	2015224

Dilution Factor: 1
Analysis Time..: 09:36 Instrument ID..: W17 Analyst ID.....: 000022
MS Run #.....: 2015106

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 #...:	E2A140197	Work Order #...:	ERLV61AD-MS	Matrix.....:	WATER
MS Lot-Sample #:	E2A140155-002		ERLV61AE-MSD		
Date Sampled...:	01/09/02 09:30	Date Received..:	01/12/02 10:30	MS Run #.....:	2015275
Prep Date.....:	01/15/02	Analysis Date..:	01/15/02		
Prep Batch #...:	2015487	Analysis Time..:	19:04		
Dilution Factor:	1	Analyst ID.....:	015590	Instrument ID..:	MSC

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**92**	**(75 - 120)**			**SW846 8260B**
	91	**(75 - 120)**	**1.4**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**88**	**(70 - 140)**			**SW846 8260B**
	90	**(70 - 140)**	**2.5**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**93**	**(75 - 120)**			**SW846 8260B**
	94	**(75 - 120)**	**1.4**	**(0-25)**	**SW846 8260B**
Toluene	**92**	**(75 - 125)**			**SW846 8260B**
	94	**(75 - 125)**	**2.3**	**(0-25)**	**SW846 8260B**
Trichloroethene	**102**	**(70 - 130)**			**SW846 8260B**
	102	**(70 - 130)**	**0.09**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
	105	(75 - 130)
1,2-Dichloroethane-d4	114	(65 - 135)
	118	(65 - 135)
Toluene-d8	98	(80 - 130)
	109	(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

General Chemistry

Client Lot #...: E2A140197 **Matrix.....:** WATER
Date Sampled...: 01/14/02 16:30 **Date Received..:** 01/14/02 19:15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		WO#: ERMDC1AD-MS/ERMDC1AE-MSD				MS Lot-Sample #: E2A140197-001	
	97	(85 - 115)			SW846 7196A	01/15/02	2015224
	97	(85 - 115)	0.0	(0-20)	SW846 7196A	01/15/02	2015224

Dilution Factor: 1
Analysis Time..: 09:36 Instrument ID..: W17 Analyst ID.....: 000022
MS Run #.....: 2015106

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Lot-Sample #...:	E2A140197	Work Order #...:	ERLV61AD	Matrix.....:	WATER
MS Lot-Sample #:	E2A140155-002				
Date Sampled...:	01/09/02 09:30	Date Received..:	01/12/02 10:30		
Prep Date.....:	01/15/02	Analysis Date..:	01/15/02		
Prep Batch #...:	2015487	MS Run #.....:	2015275		
Dilution Factor:	1	Analyst ID.....:	015590	Instrument ID..:	MSC

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	ND	10.0	9.19	ug/L	92	SW846 8260B
1,1-Dichloroethene	ND	10.0	8.83	ug/L	88	SW846 8260B
Chlorobenzene	ND	10.0	9.27	ug/L	93	SW846 8260B
Toluene	ND	10.0	9.17	ug/L	92	SW846 8260B
Trichloroethene	ND	10.0	10.2	ug/L	102	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	114	(65 - 135)
Toluene-d8	98	(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

General Chemistry

Client Lot #...: E2A140197 Matrix.....: WATER
Date Sampled...: 01/14/02 16:30 Date Received..: 01/14/02 19:15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium			Work Order #...:		ERMDC1AD		MS Lot-Sample #:	E2A140197-001
	ND	0.050	0.0484	mg/L	97	SW846 7196A	01/15/02	2015224

Dilution Factor: 1 Analysis Time..: 09:34 Instrument ID..: W17
Analyst ID.....: 000022
MS Run #.....: 2015106

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Lot-Sample #...: E2A140197 Work Order #...: ERLV61AD Matrix.....: WATER
MS Lot-Sample #: E2A140155-002
Date Sampled...: 01/09/02 09:30 Date Received..: 01/12/02 10:30
Prep Date.....: 01/15/02 Analysis Date..: 01/15/02
Prep Batch #...: 2015487 MS Run #.....: 2015275
Dilution Factor: 1 Analyst ID.....: 015590 Instrument ID..: MSC

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**92**	**(75 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**88**	**(70 - 140)**	**SW846 8260B**
Chlorobenzene	**93**	**(75 - 120)**	**SW846 8260B**
Toluene	**92**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**102**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	114	(65 - 135)
Toluene-d8	98	(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

General Chemistry

Client Lot #...: E2A140197 **Matrix.....:** WATER
Date Sampled...: 01/14/02 16:30 **Date Received..:** 01/14/02 19:15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #...: ERMDC1AD		MS Lot-Sample #: E2A140197-001	
	97	(85 - 115)	SW846 7196A	01/15/02	2015224

Dilution Factor: 1 Analysis Time..: 09:34 Instrument ID..: W17
Analyst ID.....: 000022
MS Run #.....: 2015106

NOTE(S):

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

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

January 21, 2002

STL LOT NUMBER: E2A150272
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 sample received under chain of custody by STL Los Angeles on January 15, 2002. This sample is associated with your BRC former C-6 Torrance Harbor Gateway 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.

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

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

Sincerely,

Diane Suzuki
Project Manager

CC: Project File

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

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0000948

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH INC	Project Manager: SCOTT ZACHARY	Date: 1/15/02	Chain of Custody Number: 054114
Address: 9040 FRIARS ROAD SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: E2A150272	Page 1 of 1
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact:	Lab Contact:	
Project Name and Location (State): C6 - LOS ANGELES	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: BL-1 ABANDONMENT ROLL-OFF 27285-012			

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	Analysis (Attach list if more space is needed): VOCs 8260	TPH 8015	METALS 6010	PAH 8310	Special Instructions/ Conditions of Receipt
BL-1 - 10'	1/15/02	11:00				X							X	X	X	X	

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

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

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

QC Requirements (Specify):

1. Relinquished By: [signature]	Date: 1/15/02	Time: 14:00	1. Received By: [signature]	Date: 1-15-02	Time: 1400
2. Relinquished By: [signature]	Date: 1-15-02	Time: 1640	2. Received By: [signature]	Date: 1-15-02	Time: 1640
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments: ~~CALL FOR PROJECT # TO CHARGE & TURN AROUND TIME REQUIRED~~ TRAVIS 619-987-1767

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

000002

BOE-C6-0000949

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 1/15/02

Quantims Lot #: E2A150272
Quote #: 42295
Client Name: Haley & Aldrich
Project: C6-Torrance
Received by: TS
Date/Time Received: 1/15/02 16:40
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☐In-House Courier ☒Rey B. ☐UPS ☐DES ☐Other

Initial / Date

Custody Seal Status: ☐Intact ☐Broken ☒None ..... AR 1/15/02
Custody Seal #(s): ☒No Seal # .....
Sample Container(s): ☒STL-LA ☐Client ☐N/A .....
Temperature(s) (Cooler/blank) in °C: 5.4 Correction factor -0.1°C (Corrected Temp.) 5.3
Thermometer Used : ID: B ☒IR (Infra-red) ☐Digital (Probe) .....
Samples: ☒Intact ☐Broken ☐Other .....
Anomalies: ☒No ☐Yes (See Clouseau) .....
Labeled by RS .....
Labeling checked by .....

Turn Around Time: ☐RUSH-24HR ☐RUSH-48HR ☐RUSH-72HR ☒NORMAL .....
Short-Hold Notification: ☐Ph ☐Wet Chem ☐Metals (Filter/Pres) ☐Encore ☐N/A ...
Outside Analysis(es) (Test/Lab/Date Sent Out) :
8310 to WSAC

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

Fraction	1										PH
VOAh /*											N/A
400 CGJ	2										—

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] 1/15/05 REVIEWED BY/DATE: [signature]

PRC Ver. 8 081401 XRF QANACA01\N:\Precis\Sample Control Forms

000003

BOE-C6-0000950

SEVERN
TRENT
SERVICES

Analytical Report

000004

EXECUTIVE SUMMARY - Detection Highlights

E2A150272

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
BL-1-10 01/15/02 11:00 001				
C6-C8	0.12 J	1.0	mg/kg	SW846 8015B
Mercury	0.033 B	0.10	mg/kg	SW846 7471A
Aluminum	3840	40.0	mg/kg	SW846 6010B
Arsenic	3.7	2.0	mg/kg	SW846 6010B
Barium	37.2	4.0	mg/kg	SW846 6010B
Chromium	14.6 J	2.0	mg/kg	SW846 6010B
Beryllium	0.32	1.0	mg/kg	SW846 6010B
	Qualifiers: B,J,G			
Lead	2.7 J	1.0	mg/kg	SW846 6010B
Cobalt	1.8 B,G	10.0	mg/kg	SW846 6010B
Copper	4.2 B,J,G	5.0	mg/kg	SW846 6010B
Nickel	4.4 B,G	8.0	mg/kg	SW846 6010B
Vanadium	12.0	10.0	mg/kg	SW846 6010B
Zinc	12.5	4.0	mg/kg	SW846 6010B

METHODS SUMMARY

E2A150272

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
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310	SW846 3550
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

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

SAMPLE SUMMARY

E2A150272

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
ERN8M	001	BL-1-10	01/15/02	11:00

NOTE(S):

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

HALEY & ALDRICH INC

Client Sample ID: BL-1-10

GC Semivolatiles

Lot-Sample #...:	E2A150272-001	Work Order #...:	ERN8M1AA	Matrix.....:	SOLID
Date Sampled...:	01/15/02 11:00	Date Received..:	01/15/02 16:40	MS Run #.....:	2016128
Prep Date.....:	01/16/02	Analysis Date..:	01/18/02		
Prep Batch #...:	2016317	Analysis Time..:	13:34		
Dilution Factor:	1				
Analyst ID.....:	356074	Instrument ID..:	G02		
		Method.....:	SW846 8015B		

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

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

HALEY & ALDRICH INC

Client Sample ID: BL-1-10

GC Volatiles

Lot-Sample #...:	E2A150272-001	Work Order #...:	ERN8M1AC	Matrix.....:	SOLID
Date Sampled...:	01/15/02 11:00	Date Received..:	01/15/02 16:40	MS Run #.....:	2017163
Prep Date.....:	01/16/02	Analysis Date..:	01/16/02		
Prep Batch #...:	2017362	Analysis Time..:	12:05		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G13		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	0.12 J	1.0	mg/kg	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	83	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

000003

HALEY & ALDRICH INC

Client Sample ID: BL-1-10

GC/MS Volatiles

Lot-Sample #...:	E2A150272-001	Work Order #...:	ERN8M1AD	Matrix.....:	SOLID
Date Sampled...:	01/15/02 11:00	Date Received..:	01/15/02 16:40	MS Run #.....:	2021104
Prep Date.....:	01/18/02	Analysis Date..:	01/18/02		
Prep Batch #...:	2021322	Analysis Time..:	23:48		
Dilution Factor:	1				
Analyst ID.....:	999998	Instrument ID..:	MSD		
		Method.....:	SW846 8260B		

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

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: BL-1-10

GC/MS Volatiles

Lot-Sample #...: E2A150272-001 Work Order #...: ERN8M1AD 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	78	(65 - 135)
1,2-Dichloroethane-d4	80	(60 - 140)
Toluene-d8	86	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: BL-1-10

HPLC

Lot-Sample #...:	E2A150272-001	**Work Order #...:**	ERN8M1A1	**Matrix.....:**	SOLID
Date Sampled...:	01/15/02 11:00	**Date Received..:**	01/15/02 16:40	**MS Run #.....:**	2016156
Prep Date.....:	01/16/02	**Analysis Date..:**	01/17/02		
Prep Batch #...:	2016374	**Analysis Time..:**	23:54		
Dilution Factor:	1				
Analyst ID.....:	033077	**Instrument ID..:**	LC7		
		Method.....:	SW846 8310		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	400	ug/kg	63
Acenaphthylene	ND	200	ug/kg	46
Anthracene	ND	8.0	ug/kg	1.1
Benzo(a)anthracene	ND	16	ug/kg	1.7
Benzo(a)pyrene	ND	10	ug/kg	3.1
Benzo(b)fluoranthene	ND	4.0	ug/kg	2.4
Benzo(ghi)perylene	ND	16	ug/kg	3.1
Benzo(k)fluoranthene	ND	4.0	ug/kg	1.1
Chrysene	ND	20	ug/kg	14
Dibenz(a,h)anthracene	ND	40	ug/kg	9.2
Fluoranthene	ND	20	ug/kg	4.8
Fluorene	ND	40	ug/kg	6.7
Indeno(1,2,3-cd)pyrene	ND	20	ug/kg	3.1
Naphthalene	ND	200	ug/kg	23
Phenanthrene	ND	16	ug/kg	2.6
Pyrene	ND	40	ug/kg	11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	76	(41 - 115)

HALEY & ALDRICH INC

BL-1-10

GC/MS Volatiles

Lot-Sample #: E2A150272-001 **Work Order #:** ERN8M1AD **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2A210000-322 B **Work Order #:** ER09N1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown hydrocarbon		8.7	M	21.353	ug/kg
Unknown alkane		7.4	M	21.599	ug/kg

NOTE(S):

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

HALEY & ALDRICH INC

Client Sample ID: BL-1-10

TOTAL Metals

Lot-Sample #...: E2A150272-001 **Matrix.....:** SOLID
Date Sampled...: 01/15/02 11:00 **Date Received..:** 01/15/02 16:40

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2016399						
Aluminum	**3840**	**40.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AE**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 16.0	
Arsenic	**3.7**	**2.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AF**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.80	
Antimony	ND G	12.0	mg/kg	SW846 6010B	01/16-01/18/02	ERN8M1AG
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 1.2	
Barium	**37.2**	**4.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AH**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.20	
Cadmium	ND G	1.0	mg/kg	SW846 6010B	01/16-01/18/02	ERN8M1AJ
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.12	
Chromium	**14.6 J**	**2.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AK**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.20	
Beryllium	**0.32 B,J,G**	**1.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AL**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.10	
Lead	**2.7 J**	**1.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AM**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.60	
Selenium	ND G	1.0	mg/kg	SW846 6010B	01/16-01/18/02	ERN8M1AN
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.80	

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HALEY & ALDRICH INC

Client Sample ID: BL-1-10

TOTAL Metals

Lot-Sample #...: E2A150272-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND G	2.0	mg/kg	SW846 6010B	01/16-01/18/02	ERN8M1AP
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.20	
Cobalt	**1.8 B,G**	**10.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AQ**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.20	
Copper	**4.2 B,J,G**	**5.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AR**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.80	
Molybdenum	ND G	8.0	mg/kg	SW846 6010B	01/16-01/18/02	ERN8M1AT
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.60	
Nickel	**4.4 B,G**	**8.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AU**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.60	
Thallium	ND G	2.0	mg/kg	SW846 6010B	01/16-01/18/02	ERN8M1AV
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 1.6	
Vanadium	**12.0**	**10.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AW**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 0.20	
Zinc	**12.5**	**4.0**	**mg/kg**	**SW846 6010B**	**01/16-01/18/02**	**ERN8M1AX**
		Dilution Factor: 2		Analysis Time..: 11:37	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2016183	MDL.....: 2.0	

Prep Batch #...: 2016402

Mercury	**0.033 B**	**0.10**	**mg/kg**	**SW846 7471A**	**01/16-01/17/02**	**ERN8M1A0**
		Dilution Factor: 1		Analysis Time..: 15:23	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2016185	MDL.....: 0.020	

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

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

000017

QC DATA ASSOCIATION SUMMARY

E2A150272

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		2016317	2016128
	SOLID	SW846 8015B		2017362	2017163
	SOLID	SW846 7471A		2016402	2016185
	SOLID	SW846 8260B		2021322	2021104
	SOLID	SW846 6010B		2016399	2016183
	SOLID	SW846 8310		2016374	2016156

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E2A150272
MB Lot-Sample #: E2A160000-317
Analysis Date..: 01/18/02
Dilution Factor: 1

Work Order #...: ERQMR1AA
Prep Date.....: 01/16/02
Prep Batch #...: 2016317
Analyst ID.....: 356074

Matrix.....: SOLID
Analysis Time..: 16:35
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	94	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

HPLC

Client Lot #...: E2A150272
MB Lot-Sample #: G2A160000-374
Analysis Date..: 01/17/02
Dilution Factor: 1

Work Order #...: ERQ3W1AA
Prep Date.....: 01/16/02
Prep Batch #...: 2016374
Analyst ID.....: 033077

Matrix.....: SOLID
Analysis Time..: 22:43
Instrument ID..: LC7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	400	ug/kg	SW846 8310
Acenaphthylene	ND	200	ug/kg	SW846 8310
Anthracene	ND	8.0	ug/kg	SW846 8310
Benzo(a)anthracene	ND	16	ug/kg	SW846 8310
Benzo(a)pyrene	ND	10	ug/kg	SW846 8310
Benzo(b)fluoranthene	ND	4.0	ug/kg	SW846 8310
Benzo(ghi)perylene	ND	16	ug/kg	SW846 8310
Benzo(k)fluoranthene	ND	4.0	ug/kg	SW846 8310
Chrysene	ND	20	ug/kg	SW846 8310
Dibenz(a,h)anthracene	ND	40	ug/kg	SW846 8310
Fluoranthene	ND	20	ug/kg	SW846 8310
Fluorene	ND	40	ug/kg	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	20	ug/kg	SW846 8310
Naphthalene	ND	200	ug/kg	SW846 8310
Phenanthrene	ND	16	ug/kg	SW846 8310
Pyrene	ND	40	ug/kg	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	75	(41 - 115)

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E2A150272
MB Lot-Sample #: E2A170000-362

Analysis Date..: 01/16/02
Dilution Factor: 1

Work Order #...: ERT7G1AA

Prep Date.....: 01/16/02
Prep Batch #...: 2017362

Analyst ID.....: 001464

Matrix.....: SOLID

Analysis Time..: 11:09
Instrument ID..: G13

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)	83	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2A150272
MB Lot-Sample #: E2A210000-322

Analysis Date..: 01/18/02
Dilution Factor: 1

Work Order #...: ER09N1AA

Prep Date.....: 01/18/02
Prep Batch #...: 2021322

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 23:18
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 #...: E2A150272 **Work Order #...:** ER09N1AA **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	78	(65 - 135)
1,2-Dichloroethane-d4	80	(60 - 140)
Toluene-d8	86	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E2A160000-399 **Prep Batch #...:** 2016399						
Aluminum	ND	20.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1CF
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AA
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AC
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AD
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AE
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	**0.14 B**	**1.0**	**mg/kg**	**SW846 6010B**	**01/16-01/17/02**	**ERQ7T1AF**
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	**0.092 B**	**0.50**	**mg/kg**	**SW846 6010B**	**01/16-01/17/02**	**ERQ7T1AG**
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	**0.42 B**	**0.50**	**mg/kg**	**SW846 6010B**	**01/16-01/17/02**	**ERQ7T1AH**
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AJ
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AK
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AL
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	**0.63 B**	**2.5**	**mg/kg**	**SW846 6010B**	**01/16-01/17/02**	**ERQ7T1AM**
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AN
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AP
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AQ
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AR
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	01/16-01/17/02	ERQ7T1AT
		Dilution Factor: 1				
		Analysis Time..: 17:25		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E2A160000-402 **Prep Batch #...:** 2016402

Mercury	ND	0.10	mg/kg	SW846 7471A	01/16-01/17/02	ERQ8K1AA
		Dilution Factor: 1				
		Analysis Time..: 14:39		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E2A150272 Work Order #...: ERQMR1AC Matrix.....: SOLID
LCS Lot-Sample#: E2A160000-317
Prep Date.....: 01/16/02 Analysis Date..: 01/16/02
Prep Batch #...: 2016317 Analysis Time..: 17:56
Dilution Factor: 1 Instrument ID..: G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**207**	**mg/kg**	**83**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	85	(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

HPLC

Client Lot #...: E2A150272 Work Order #...: ERQ3W1AC Matrix.....: SOLID
LCS Lot-Sample#: G2A160000-374
Prep Date.....: 01/16/02 Analysis Date..: 01/17/02
Prep Batch #...: 2016374 Analysis Time..: 23:18
Dilution Factor: 1 Instrument ID..: LC7
Analyst ID.....: 033077

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	1330	1030	ug/kg	77	SW846 8310
Acenaphthylene	667	462	ug/kg	69	SW846 8310
Anthracene	26.6	15.6	ug/kg	59	SW846 8310
Benzo(a)anthracene	66.7	50.3	ug/kg	75	SW846 8310
Benzo(a)pyrene	**66.7**	**46.2**	**ug/kg**	**69**	**SW846 8310**
Benzo(b)fluoranthene	26.6	18.9	ug/kg	71	SW846 8310
Benzo(ghi)perylene	106	76.0	ug/kg	71	SW846 8310
Benzo(k)fluoranthene	26.6	19.0	ug/kg	71	SW846 8310
Chrysene	66.7	50.0	ug/kg	75	SW846 8310
Dibenz(a,h)anthracene	266	170	ug/kg	64	SW846 8310
Fluoranthene	66.7	44.2	ug/kg	66	SW846 8310
Fluorene	**133**	**60.4**	**ug/kg**	**45**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**66.7**	**47.9**	**ug/kg**	**72**	**SW846 8310**
Naphthalene	**667**	**425**	**ug/kg**	**64**	**SW846 8310**
Phenanthrene	53.2	29.1	ug/kg	55	SW846 8310
Pyrene	**133**	**90.1**	**ug/kg**	**68**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	75	(41 - 115)

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 #...: E2A150272 Work Order #...: ERT7G1AC Matrix.....: SOLID
LCS Lot-Sample#: E2A170000-362
Prep Date.....: 01/16/02 Analysis Date..: 01/16/02
Prep Batch #...: 2017362 Analysis Time..: 11:37
Dilution Factor: 1 Instrument ID..: G13
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**4.94**	**mg/kg**	**99**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	112	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2A150272 Work Order #...: ER09N1AC Matrix.....: SOLID
LCS Lot-Sample#: E2A210000-322
Prep Date.....: 01/18/02 Analysis Date..: 01/18/02
Prep Batch #...: 2021322 Analysis Time..: 22:48
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**52.0**	**ug/kg**	**104**	**SW846 8260B**
Benzene	**50.0**	**54.4**	**ug/kg**	**109**	**SW846 8260B**
Trichloroethene	**50.0**	**52.9**	**ug/kg**	**106**	**SW846 8260B**
Toluene	**50.0**	**50.1**	**ug/kg**	**100**	**SW846 8260B**
Chlorobenzene	**50.0**	**51.1**	**ug/kg**	**102**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	81	(65 - 135)
1,2-Dichloroethane-d4	88	(60 - 140)
Toluene-d8	85	(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

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2A160000-399 **Prep Batch #...:** 2016399							
Arsenic	200	188	mg/kg	94	SW846 6010B	01/16-01/17/02	ERQ7T1AU
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Aluminum	200	182	mg/kg	91	SW846 6010B	01/16-01/17/02	ERQ7T1CG
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	45.2	mg/kg	90	SW846 6010B	01/16-01/17/02	ERQ7T1AV
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	189	mg/kg	94	SW846 6010B	01/16-01/17/02	ERQ7T1AW
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	4.87	mg/kg	97	SW846 6010B	01/16-01/17/02	ERQ7T1AX
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	20.2	mg/kg	101	SW846 6010B	01/16-01/17/02	ERQ7T1A0
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	5.14	mg/kg	103	SW846 6010B	01/16-01/17/02	ERQ7T1A1
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	47.4	mg/kg	95	SW846 6010B	01/16-01/17/02	ERQ7T1A2
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	174	mg/kg	87	SW846 6010B	01/16-01/17/02	ERQ7T1A3
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.74	mg/kg	95	SW846 6010B	01/16-01/17/02	ERQ7T1A4
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	48.3	mg/kg	97	SW846 6010B	01/16-01/17/02	ERQ7T1A5
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	23.3	mg/kg	93	SW846 6010B	01/16-01/17/02	ERQ7T1A6
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	97.8	mg/kg	98	SW846 6010B	01/16-01/17/02	ERQ7T1A7
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	48.0	mg/kg	96	SW846 6010B	01/16-01/17/02	ERQ7T1A8
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	187	mg/kg	93	SW846 6010B	01/16-01/17/02	ERQ7T1A9
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	49.4	mg/kg	99	SW846 6010B	01/16-01/17/02	ERQ7T1CA
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	49.7	mg/kg	99	SW846 6010B	01/16-01/17/02	ERQ7T1CC
			Dilution Factor: 1				
			Analysis Time..: 17:33		Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E2A160000-402 **Prep Batch #...:** 2016402

Mercury	0.833	0.808	mg/kg	97	SW846 7471A	01/16-01/17/02	ERQ8K1AC
			Dilution Factor: 1				
			Analysis Time..: 14:41		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E2A150272 Work Order #...: ERQMR1AC Matrix.....: SOLID
LCS Lot-Sample#: E2A160000-317
Prep Date.....: 01/16/02 Analysis Date..: 01/16/02
Prep Batch #...: 2016317 Analysis Time..: 17:56
Dilution Factor: 1 Instrument ID..: G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**83**	**(55 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	85	(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

HPLC

Client Lot #...: E2A150272 **Work Order #...:** ERQ3W1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G2A160000-374
Prep Date.....: 01/16/02 **Analysis Date..:** 01/17/02
Prep Batch #...: 2016374 **Analysis Time..:** 23:18
Dilution Factor: 1 **Instrument ID..:** LC7
Analyst ID.....: 033077

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	77	(50 - 150)	SW846 8310
Acenaphthylene	69	(50 - 150)	SW846 8310
Anthracene	59	(50 - 150)	SW846 8310
Benzo(a)anthracene	75	(50 - 150)	SW846 8310
Benzo(a)pyrene	**69**	**(49 - 107)**	**SW846 8310**
Benzo(b)fluoranthene	71	(50 - 150)	SW846 8310
Benzo(ghi)perylene	71	(50 - 150)	SW846 8310
Benzo(k)fluoranthene	71	(50 - 150)	SW846 8310
Chrysene	75	(50 - 150)	SW846 8310
Dibenz(a,h)anthracene	64	(50 - 150)	SW846 8310
Fluoranthene	66	(50 - 150)	SW846 8310
Fluorene	**45**	**(43 - 112)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**72**	**(54 - 114)**	**SW846 8310**
Naphthalene	**64**	**(44 - 110)**	**SW846 8310**
Phenanthrene	55	(50 - 150)	SW846 8310
Pyrene	**68**	**(49 - 115)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	75	(41 - 115)

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 #...: E2A150272 Work Order #...: ERT7G1AC Matrix.....: SOLID
LCS Lot-Sample#: E2A170000-362
Prep Date.....: 01/16/02 Analysis Date..: 01/16/02
Prep Batch #...: 2017362 Analysis Time..: 11:37
Dilution Factor: 1 Instrument ID..: G13
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**99**	**(70 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	112	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2A150272 Work Order #...: ER09N1AC Matrix.....: SOLID
LCS Lot-Sample#: E2A210000-322
Prep Date.....: 01/18/02 Analysis Date..: 01/18/02
Prep Batch #...: 2021322 Analysis Time..: 22:48
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**104**	**(65 - 150)**	**SW846 8260B**
Benzene	**109**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**106**	**(70 - 135)**	**SW846 8260B**
Toluene	**100**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**102**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	81	(65 - 135)
1,2-Dichloroethane-d4	88	(60 - 140)
Toluene-d8	85	(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

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2A160000-399 **Prep Batch #...:** 2016399					
Arsenic	94	(75 - 115)	SW846 6010B	01/16-01/17/02	ERQ7T1AU
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Aluminum	91	(70 - 115)	SW846 6010B	01/16-01/17/02	ERQ7T1CG
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	90	(75 - 115)	SW846 6010B	01/16-01/17/02	ERQ7T1AV
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Barium	94	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1AW
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	97	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1AX
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	101	(85 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1A0
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	103	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1A1
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Lead	95	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1A2
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	87	(70 - 115)	SW846 6010B	01/16-01/17/02	ERQ7T1A3
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Silver	95	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1A4
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	97	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1A5
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Copper	93	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1A6
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	98	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1A7
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	96	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1A8
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	93	(75 - 125)	SW846 6010B	01/16-01/17/02	ERQ7T1A9
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	99	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1CA
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	99	(80 - 120)	SW846 6010B	01/16-01/17/02	ERQ7T1CC
		Dilution Factor: 1			
		Analysis Time..: 17:33	Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E2A160000-402 **Prep Batch #...:** 2016402

Mercury	97	(85 - 115)	SW846 7471A	01/16-01/17/02	ERQ8K1AC
		Dilution Factor: 1			
		Analysis Time..: 14:41	Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID
Date Sampled...: 01/14/02 12:30 **Date Received..:** 01/14/02 17:46

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2A140199-001 **Prep Batch #...:** 2016399									
Aluminum									
	21800	200	26200 N	mg/kg			SW846 6010B	01/16-01/17/02	ERMDP1C8
	21800	200	25600 N	mg/kg			SW846 6010B	01/16-01/17/02	ERMDP1C9
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Arsenic									
	16.6	200	205	mg/kg	94		SW846 6010B	01/16-01/17/02	ERMDP1A0
	16.6	200	203	mg/kg	93	0.77	SW846 6010B	01/16-01/17/02	ERMDP1A1
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Antimony									
	ND	50.0	14.5 N	mg/kg	29		SW846 6010B	01/16-01/17/02	ERMDP1A2
	ND	50.0	14.7 N	mg/kg	29	1.6	SW846 6010B	01/16-01/17/02	ERMDP1A3
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Barium									
	145	200	339	mg/kg	97		SW846 6010B	01/16-01/17/02	ERMDP1A4
	145	200	333	mg/kg	94	1.8	SW846 6010B	01/16-01/17/02	ERMDP1A5
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Cadmium									
	0.24	5.00	5.35	mg/kg	102		SW846 6010B	01/16-01/17/02	ERMDP1A6
	0.24	5.00	5.18	mg/kg	99	3.2	SW846 6010B	01/16-01/17/02	ERMDP1A7
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Chromium									
	23.3	20.0	45.6	mg/kg	112		SW846 6010B	01/16-01/17/02	ERMDP1A8
	23.3	20.0	44.7	mg/kg	107	1.9	SW846 6010B	01/16-01/17/02	ERMDP1A9
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID
Date Sampled...: 01/14/02 12:30 **Date Received..:** 01/14/02 17:46

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.76	5.00	5.70	mg/kg	99		SW846 6010B	01/16-01/17/02	ERMDP1CA
	0.76	5.00	5.60	mg/kg	97	1.9	SW846 6010B	01/16-01/17/02	ERMDP1CC
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Lead									
	6.1	50.0	53.2	mg/kg	94		SW846 6010B	01/16-01/17/02	ERMDP1CD
	6.1	50.0	52.9	mg/kg	94	0.48	SW846 6010B	01/16-01/17/02	ERMDP1CE
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Selenium									
	ND	200	172	mg/kg	86		SW846 6010B	01/16-01/17/02	ERMDP1CF
	ND	200	171	mg/kg	86	0.65	SW846 6010B	01/16-01/17/02	ERMDP1CG
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Silver									
	ND	5.00	4.62	mg/kg	92		SW846 6010B	01/16-01/17/02	ERMDP1CH
	ND	5.00	4.70	mg/kg	94	1.5	SW846 6010B	01/16-01/17/02	ERMDP1CJ
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Cobalt									
	11.6	50.0	61.1	mg/kg	99		SW846 6010B	01/16-01/17/02	ERMDP1CK
	11.6	50.0	66.4	mg/kg	110	8.3	SW846 6010B	01/16-01/17/02	ERMDP1CL
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Copper									
	25.9	25.0	52.0	mg/kg	105		SW846 6010B	01/16-01/17/02	ERMDP1CM
	25.9	25.0	51.2	mg/kg	101	1.6	SW846 6010B	01/16-01/17/02	ERMDP1CN
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID
Date Sampled...: 01/14/02 12:30 **Date Received..:** 01/14/02 17:46

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	0.47	100	93.7	mg/kg	93		SW846 6010B	01/16-01/17/02	ERMDP1CP
	0.47	100	92.7	mg/kg	92	1.1	SW846 6010B	01/16-01/17/02	ERMDP1CQ
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Nickel									
	14.8	50.0	62.4	mg/kg	95		SW846 6010B	01/16-01/17/02	ERMDP1CR
	14.8	50.0	61.4	mg/kg	93	1.6	SW846 6010B	01/16-01/17/02	ERMDP1CT
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Thallium									
	ND	200	185	mg/kg	92		SW846 6010B	01/16-01/17/02	ERMDP1CU
	ND	200	183	mg/kg	91	1.1	SW846 6010B	01/16-01/17/02	ERMDP1CV
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Vanadium									
	52.1	50.0	107	mg/kg	109		SW846 6010B	01/16-01/17/02	ERMDP1CW
	52.1	50.0	105	mg/kg	106	1.6	SW846 6010B	01/16-01/17/02	ERMDP1CX
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						
Zinc									
	78.4	50.0	136	mg/kg	115		SW846 6010B	01/16-01/17/02	ERMDP1C0
	78.4	50.0	135	mg/kg	114	0.41	SW846 6010B	01/16-01/17/02	ERMDP1C1
			Dilution Factor: 1						
			Analysis Time..: 19:01		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2016183						

MS Lot-Sample #: E2A140199-001 **Prep Batch #...:** 2016402

Mercury									
	0.068	0.167	0.252	mg/kg	110		SW846 7471A	01/16-01/17/02	ERMDP1C5
	0.068	0.167	0.238	mg/kg	102	5.4	SW846 7471A	01/16-01/17/02	ERMDP1C6
			Dilution Factor: 1						
			Analysis Time..: 15:10		Instrument ID..: M04			Analyst ID.....: 000023	
			MS Run #.....: 2016185						

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

GC Volatiles

Client Lot #...:	E2A150272	Work Order #...:	ERN8M1A2-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2A150272-001		ERN8M1A3-MSD		
Date Sampled...:	01/15/02 11:00	Date Received..:	01/15/02 16:40	MS Run #.....:	2017163
Prep Date.....:	01/16/02	Analysis Date..:	01/16/02		
Prep Batch #...:	2017362	Analysis Time..:	12:33		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G13

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Gasoline)	**0.12**	**5.00**	**4.92**	**mg/kg**	**96**		**SW846 8015B**
	0.12	**5.00**	**4.92**	**mg/kg**	**96**	**0.17**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	112	(60 - 130)
	112	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E2A150272	Work Order #...:	ERN9A1A2-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2A150278-001		ERN9A1A3-MSD		
Date Sampled...:	01/10/02 12:40	Date Received..:	01/15/02 16:40	MS Run #.....:	2021104
Prep Date.....:	01/19/02	Analysis Date..:	01/19/02		
Prep Batch #...:	2021322	Analysis Time..:	02:49		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	46.6	ug/kg	93		SW846 8260B
	ND	50.0	47.0	ug/kg	94	0.81	SW846 8260B
Benzene	ND	50.0	47.9	ug/kg	96		SW846 8260B
	ND	50.0	46.2	ug/kg	92	3.6	SW846 8260B
Trichloroethene	ND	50.0	50.9	ug/kg	102		SW846 8260B
	ND	50.0	49.2	ug/kg	98	3.3	SW846 8260B
Toluene	ND	50.0	45.7	ug/kg	91		SW846 8260B
	ND	50.0	43.2	ug/kg	86	5.6	SW846 8260B
Chlorobenzene	ND	50.0	44.8	ug/kg	90		SW846 8260B
	ND	50.0	42.1	ug/kg	84	6.4	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	80	(65 - 135)
	82	(65 - 135)
1,2-Dichloroethane-d4	88	(60 - 140)
	89	(60 - 140)
Toluene-d8	86	(70 - 130)
	85	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E2A150272	**Work Order #...:**	ERN9W1A2-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E2A150278-005		ERN9W1A3-MSD		
Date Sampled...:	01/14/02 16:10	**Date Received..:**	01/15/02 16:40	**MS Run #.....:**	2016128
Prep Date.....:	01/16/02	**Analysis Date..:**	01/16/02		
Prep Batch #...:	2016317	**Analysis Time..:**	19:53		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Diesel)	**ND**	**250**	**178**	**mg/kg**	**71**		**SW846 8015B**
	ND	**250**	**204**	**mg/kg**	**81**	**13**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	76	(60 - 130)
	83	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...:	E2A150272	Work Order #...:	ERN9W1A4-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2A150278-005		ERN9W1A5-MSD		
Date Sampled...:	01/14/02 16:10	Date Received..:	01/15/02 16:40	MS Run #.....:	2016156
Prep Date.....:	01/16/02	Analysis Date..:	01/18/02		
Prep Batch #...:	2016374	Analysis Time..:	03:27		
Dilution Factor:	1	Analyst ID.....:	033077	Instrument ID..:	LC7

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	1330	1000	ug/kg	75		SW846 8310
	ND	1330	999	ug/kg	75	0.46	SW846 8310
Acenaphthylene	ND	667	541	ug/kg	81		SW846 8310
	ND	667	498	ug/kg	75	8.4	SW846 8310
Anthracene	ND	26.6	19.4	ug/kg	73		SW846 8310
	ND	26.6	18.3	ug/kg	69	6.0	SW846 8310
Benzo(a)anthracene	ND	66.7	56.9	ug/kg	85		SW846 8310
	ND	66.7	56.9	ug/kg	85	0.02	SW846 8310
Benzo(a)pyrene	**ND**	**66.7**	**52.9**	**ug/kg**	**79**		**SW846 8310**
	ND	**66.7**	**53.8**	**ug/kg**	**81**	**1.8**	**SW846 8310**
Benzo(b)fluoranthene	ND	26.6	21.4	ug/kg	80		SW846 8310
	ND	26.6	21.5	ug/kg	81	0.62	SW846 8310
Benzo(ghi)perylene	ND	106	84.7	ug/kg	80		SW846 8310
	ND	106	86.1	ug/kg	81	1.6	SW846 8310
Benzo(k)fluoranthene	ND	26.6	21.3	ug/kg	80		SW846 8310
	ND	26.6	22.0	ug/kg	83	2.9	SW846 8310
Chrysene	ND	66.7	56.0	ug/kg	84		SW846 8310
	ND	66.7	55.8	ug/kg	84	0.47	SW846 8310
Dibenz(a,h)anthracene	ND	266	190	ug/kg	72		SW846 8310
	ND	266	193	ug/kg	72	1.2	SW846 8310
Fluoranthene	ND	66.7		ug/kg	78		SW846 8310
	ND	66.7	50.1	ug/kg	75	3.4	SW846 8310
Fluorene	**ND**	**133**	**79.7**	**ug/kg**	**60**		**SW846 8310**
	ND	**133**	**71.0**	**ug/kg**	**53**	**12**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**ND**	**66.7**	**53.4**	**ug/kg**	**80**		**SW846 8310**
	ND	**66.7**	**53.9**	**ug/kg**	**81**	**0.92**	**SW846 8310**
Naphthalene	**ND**	**667**	**496**	**ug/kg**	**74**		**SW846 8310**
	ND	**667**	**444**	**ug/kg**	**67**	**11**	**SW846 8310**
Phenanthrene	ND	53.2	37.7	ug/kg	71		SW846 8310
	ND	53.2	34.8	ug/kg	65	8.0	SW846 8310
Pyrene	**ND**	**133**	**109**	**ug/kg**	**82**		**SW846 8310**
	ND	**133**	**105**	**ug/kg**	**79**	**3.3**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	81	(41 - 115)
	73	(41 - 115)

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

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID
Date Sampled...: 01/14/02 12:30 **Date Received..:** 01/14/02 17:46

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2A140199-001 **Prep Batch #...:** 2016399							
Aluminum	NC	(70 - 115)			SW846 6010B	01/16-01/17/02	ERMDP1C8
	NC	(70 - 115)		(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1C9
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Arsenic	94	(75 - 115)			SW846 6010B	01/16-01/17/02	ERMDP1A0
	93	(75 - 115)	0.77	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1A1
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Antimony	29 N	(75 - 115)			SW846 6010B	01/16-01/17/02	ERMDP1A2
	29 N	(75 - 115)	1.6	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1A3
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Barium	97	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1A4
	94	(80 - 120)	1.8	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1A5
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Cadmium	102	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1A6
	99	(80 - 120)	3.2	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1A7
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Chromium	112	(85 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1A8
	107	(85 - 120)	1.9	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1A9
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Beryllium	99	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1CA
	97	(80 - 120)	1.9	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1CC
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID
Date Sampled...: 01/14/02 12:30 **Date Received..:** 01/14/02 17:46

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	94	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1CD
	94	(80 - 120)	0.48	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1CE
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Selenium	86	(70 - 115)			SW846 6010B	01/16-01/17/02	ERMDP1CF
	86	(70 - 115)	0.65	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1CG
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Silver	92	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1CH
	94	(80 - 120)	1.5	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1CJ
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Cobalt	99	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1CK
	110	(80 - 120)	8.3	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1CL
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Copper	105	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1CM
	101	(80 - 120)	1.6	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1CN
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Molybdenum	93	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1CP
	92	(80 - 120)	1.1	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1CQ
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					
Nickel	95	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1CR
	93	(80 - 120)	1.6	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1CT
		Dilution Factor: 1					
		Analysis Time..: 19:01			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2016183					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2A150272 **Matrix.....:** SOLID
Date Sampled...: 01/14/02 12:30 **Date Received..:** 01/14/02 17:46

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	92	(75 - 125)			SW846 6010B	01/16-01/17/02	ERMDP1CU
	91	(75 - 125)	1.1	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1CV

Dilution Factor: 1
Analysis Time..: 19:01 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2016183

Vanadium	109	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1CW
	106	(80 - 120)	1.6	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1CX

Dilution Factor: 1
Analysis Time..: 19:01 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2016183

Zinc	115	(80 - 120)			SW846 6010B	01/16-01/17/02	ERMDP1C0
	114	(80 - 120)	0.41	(0-25)	SW846 6010B	01/16-01/17/02	ERMDP1C1

Dilution Factor: 1
Analysis Time..: 19:01 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 2016183

MS Lot-Sample #: E2A140199-001 **Prep Batch #...:** 2016402

Mercury	110	(80 - 120)			SW846 7471A	01/16-01/17/02	ERMDP1C5
	102	(80 - 120)	5.4	(0-20)	SW846 7471A	01/16-01/17/02	ERMDP1C6

Dilution Factor: 1
Analysis Time..: 15:10 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 2016185

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 EVALUATION REPORT

GC Volatiles

Client Lot #...:	E2A150272	Work Order #...:	ERN8M1A2-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2A150272-001		ERN8M1A3-MSD		
Date Sampled...:	01/15/02 11:00	Date Received..:	01/15/02 16:40	MS Run #.....:	2017163
Prep Date.....:	01/16/02	Analysis Date..:	01/16/02		
Prep Batch #...:	2017362	Analysis Time..:	12:33		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**96**	**(70 - 140)**			**SW846 8015B**
	96	**(70 - 140)**	**0.17**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	112	(60 - 130)
	112	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E2A150272	Work Order #...:	ERN9A1A2-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2A150278-001		ERN9A1A3-MSD		
Date Sampled...:	01/10/02 12:40	Date Received..:	01/15/02 16:40	MS Run #.....:	2021104
Prep Date.....:	01/19/02	Analysis Date..:	01/19/02		
Prep Batch #...:	2021322	Analysis Time..:	02:49		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**93**	**(65 - 150)**			**SW846 8260B**
	94	**(65 - 150)**	**0.81**	**(0-30)**	**SW846 8260B**
Benzene	**96**	**(70 - 130)**			**SW846 8260B**
	92	**(70 - 130)**	**3.6**	**(0-30)**	**SW846 8260B**
Trichloroethene	**102**	**(70 - 135)**			**SW846 8260B**
	98	**(70 - 135)**	**3.3**	**(0-30)**	**SW846 8260B**
Toluene	**91**	**(70 - 130)**			**SW846 8260B**
	86	**(70 - 130)**	**5.6**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**90**	**(70 - 130)**			**SW846 8260B**
	84	**(70 - 130)**	**6.4**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	80	(65 - 135)
	82	(65 - 135)
1,2-Dichloroethane-d4	88	(60 - 140)
	89	(60 - 140)
Toluene-d8	86	(70 - 130)
	85	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E2A150272	Work Order #...:	ERN9W1A2-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2A150278-005		ERN9W1A3-MSD		
Date Sampled...:	01/14/02 16:10	Date Received..:	01/15/02 16:40	MS Run #.....:	2016128
Prep Date.....:	01/16/02	Analysis Date..:	01/16/02		
Prep Batch #...:	2016317	Analysis Time..:	19:53		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**71**	**(55 - 130)**			**SW846 8015B**
	81	**(55 - 130)**	**13**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	76	(60 - 130)
	83	(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

HPLC

Client Lot #...: E2A150272 Work Order #...: ERN9W1A4-MS Matrix.....: SOLID
MS Lot-Sample #: E2A150278-005 ERN9W1A5-MSD
Date Sampled...: 01/14/02 16:10 Date Received..: 01/15/02 16:40 MS Run #.....: 2016156
Prep Date.....: 01/16/02 Analysis Date..: 01/18/02
Prep Batch #...: 2016374 Analysis Time..: 03:27
Dilution Factor: 1 Analyst ID.....: 033077 Instrument ID..: LC7

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	75	(50 - 150)			SW846 8310
	75	(50 - 150)	0.46	(0-50)	SW846 8310
Acenaphthylene	81	(50 - 150)			SW846 8310
	75	(50 - 150)	8.4	(0-50)	SW846 8310
Anthracene	73	(50 - 150)			SW846 8310
	69	(50 - 150)	6.0	(0-50)	SW846 8310
Benzo(a)anthracene	85	(50 - 150)			SW846 8310
	85	(50 - 150)	0.02	(0-50)	SW846 8310
Benzo(a)pyrene	**79**	**(49 - 107)**			**SW846 8310**
	81	**(49 - 107)**	**1.8**	**(0-53)**	**SW846 8310**
Benzo(b)fluoranthene	80	(50 - 150)			SW846 8310
	81	(50 - 150)	0.62	(0-50)	SW846 8310
Benzo(ghi)perylene	80	(50 - 150)			SW846 8310
	81	(50 - 150)	1.6	(0-50)	SW846 8310
Benzo(k)fluoranthene	80	(50 - 150)			SW846 8310
	83	(50 - 150)	2.9	(0-50)	SW846 8310
Chrysene	84	(50 - 150)			SW846 8310
	84	(50 - 150)	0.47	(0-50)	SW846 8310
Dibenz(a,h)anthracene	72	(50 - 150)			SW846 8310
	72	(50 - 150)	1.2	(0-50)	SW846 8310
Fluoranthene	78	(50 - 150)			SW846 8310
	75	(50 - 150)	3.4	(0-50)	SW846 8310
Fluorene	**60**	**(43 - 112)**			**SW846 8310**
	53	**(43 - 112)**	**12**	**(0-56)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**80**	**(54 - 114)**			**SW846 8310**
	81	**(54 - 114)**	**0.92**	**(0-51)**	**SW846 8310**
Naphthalene	**74**	**(44 - 110)**			**SW846 8310**
	67	**(44 - 110)**	**11**	**(0-50)**	**SW846 8310**
Phenanthrene	71	(50 - 150)			SW846 8310
	65	(50 - 150)	8.0	(0-50)	SW846 8310
Pyrene	**82**	**(49 - 115)**			**SW846 8310**
	79	**(49 - 115)**	**3.3**	**(0-54)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	81	(41 - 115)
	73	(41 - 115)

NOTE(S):

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

Bold print denotes control parameters