239

BRC Copy

HALEY & ALDRICH

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

TECHNICAL MEMORANDUM

STOCKPILE PLACEMENT/DISPOSITION EVALUATION
STOCKPILES SP-19 THROUGH SP-25

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

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

Date: **April 18, 2002**

Re: **Stockpile Placement/Disposition Evaluation, Boeing Realty Corporation, Stockpiles SP-19 through and SP-25**

Haley & Aldrich, Inc. is herein providing this technical memorandum to summarize our recommendations regarding the onsite placement and offsite transport of temporarily stockpiled excavated materials at Parcel C of the Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California (subject parcel). These stockpiles are herein identified as Stockpiles SP-19, SP-20, SP-21, SP-22, SP-23, SP-24, and SP-25.

OVERVIEW/PURPOSE

Potentially impacted materials identified during soil boring installation/well abandonment activities and during demolition monitoring have been excavated to expedite potential onsite remediation activities, thus, reducing the potential for affecting the current redevelopment schedule at the subject parcel. These materials were segregated by the location from which they were excavated and by known or suspected chemical impacts. Representative samples collected from these materials were evaluated using human health risk assessment and groundwater protection evaluation procedures to determine which of the temporary soil stockpiles could be reused onsite and which should be transported offsite to regulated treatment/disposal facilities. The evaluation methodology and the onsite placement/offsite transport recommendations are presented herein.

IDENTIFICATION OF STOCKPILED SOIL

Potentially impacted soils were identified for excavation based on field observations and the results of in-situ samples collected and analyzed following the Los Angeles Regional Water Quality Control Board (LARWQCB)-approved sampling and analysis plan for the subject parcel and the subsequent LARWQCB-approved addenda and supplements. Stockpiled soil was also created from soil cuttings generated during installation of soil borings or well abandonment.

Stockpiles SP-19 through SP-25 were generated between September and November, 2001. SP-19 was generated from an on-site excavation of arsenic impacted soil and contains approximately 5,000 cubic yards of soil. Stockpile SP-20 is comprised of soil cuttings generated during the onsite Building 2 vapor extraction well installation and contains approximately 15 cubic yards of soil. Stockpile SP-21 is comprised of soil cuttings generated during Simulprobe drilling activities and contains approximately 20 cubic yards. Stockpiles SP-22 and SP-24 were generated from onsite stained soil excavations and contain approximately 5 and 40 cubic yards, respectively. Stockpile SP-23 was generated during the abandonment of onsite vapor extraction wells and contains approximately 10 cubic yards. SP-25 is comprised of soil cuttings generated during the Building 1 vapor extraction well installation on Parcel C and contains approximately 4 cubic yards of soil.

STOCKPILE CHARACTERIZATION METHODOLOGY

Stockpiles SP-19 through SP-25 were characterized between September and November, 2001. Twenty representative samples were obtained from Stockpile SP-19, one representative soil samples each was obtained from Stockpile SP-20 and from Stockpile SP-25, and two representative soil sample were obtained from each of Stockpiles SP-21, SP-23, and SP-24. Two soil samples obtained from in-place soils from which Stockpile SP-22 was generated were used to characterize the associated stockpiled soil. Samples obtained from the stockpiles were discrete samples. It is assumed that these samples represent the maximum concentrations of chemicals detected in their respective stockpile. Each of the stockpile samples was analyzed for suspected chemical constituents following the protocols presented in the LARWQCB-approved sampling and analysis plan for the subject parcel and the subsequent LARWQCB-approved addenda and supplements.

STOCKPILE EVALUATION METHODOLOGY

The stockpile sample results for Stockpiles SP-19 through SP-25 were evaluated prior to November 2001 using screening human health risk assessment (SRA) procedures as described in the November 29, 2000 Risk Assessment Work Plan (RAWP) for the subject parcel following the decision process summarized in Figure 1. In addition, maximum volatile organic compound (VOC) concentrations for each stockpile were evaluated to assess whether VOC concentrations in the stockpiles have the potential to degrade existing groundwater quality. The evaluation procedures used herein are similar to those used during the evaluation of Stockpiles SP-1 through SP-18.

Human Health Risk Evaluation

The maximum concentrations detected in each stockpile were separately compared to the maximum concentrations detected within each of three areas of the subject parcel. These three areas of the subject parcel are identified as the Building 1 Exposure Area, the Building 2 Exposure Area, and the Parcel C Exposure Area (Figure 2). The Building 1 and 2 Exposure Areas are defined by two areas of elevated VOC impacts at and in proximity to former Buildings 1 and 2, respectively. The remaining portion of the subject parcel (Parcel C Exposure Area) contains relatively low chemical concentrations and/or smaller impacted areas. Where the stockpile concentrations were greater than the maximum in-situ concentrations they were used in the SRA calculations to assess whether adding the stockpile to that area resulted in risk above the LARWQCB- and Office of Environmental Health Hazard Assessment (OEHHA)-approved target risk levels.

Groundwater Protection Evaluation

Even though shallow groundwater beneath and in proximity to the subject parcel is not used as a domestic water supply, the evaluation conservatively assumed potential downward VOC migration from soil resulting in possible degradation of the Bellflower aquitard to levels greater than the California drinking water standards (i.e. Maximum Contaminant Levels [MCLs]). The assessment was conducted assuming a conservative scenario regarding chemical migration and mixing in groundwater following approved U.S. Environmental Protection Agency and LARWQCB methodology and assumptions. This evaluation was conducted by comparing maximum VOC concentrations to site-specific soil screening levels (SSLs) derived from primary MCLs.

Initial site-specific SSLs were derived using the formula presented in Section 2.5 of the EPA document entitled *Soil Screening Guidance: Technical Background Document (TBD),* dated July 1996, and site-specific geotechnical parameters. The EPA SSL equation is a partitioning formula, which does not account for chemical attenuation during migration in soil or mixing with groundwater. To better represent contaminant migration in the soil column, an attenuation factor of 16 was applied to the initial SSL. This attenuation factor was obtained from Table 5-14 of the LARWQCB's May 1996 *Interim Site Assessment & Cleanup Guidebook*, assuming site-specific average soil particle size distributions, and a distance of 53 feet from soil impacts to the groundwater table (i.e., stockpiled material to be placed onsite at a maximum depth of 12 feet below ground surface (bgs) or shallower, and the water table is located at a depth of 65 feet bgs). An EPA default dilution attenuation factor (DAF) of 20 was also applied to the initial SSL to account for limited groundwater mixing. This EPA default value is presented in the above-referenced July 1996 EPA document, and was used by EPA to develop generic SSLs. The resulting site-specific SSL is, thus, equal to the initial SSL (assuming no soil attenuation or groundwater mixing) multiplied by the product of a soil attenuation factor of 16 and a groundwater mixing factor of 20.

RECOMMENDATIONS

The recommendation for onsite reuse of each stockpile is based on whether the target risk levels are exceeded after evaluation of the maximum concentrations detected in that stockpile to the SRA calculations for each exposure area at Parcel C, and on whether maximum VOC concentrations may degrade groundwater quality to concentrations greater than MCLs. If the estimated risk remains below the target risk levels for that exposure area of the subject parcel and VOC concentrations would not degrade groundwater quality to concentrations greater than MCLs, it is recommended that the stockpile be reused in that area of the subject parcel. If, at each of the three onsite exposure areas, the estimated risk is greater than a target risk level or if VOC concentrations may degrade groundwater quality to concentrations greater than MCLs, it is recommended that the stockpile be transported offsite to a regulated treatment/disposal facility.

A summary of the recommendations for the stockpiles is presented in Table 1. The laboratory data for the stockpile samples is presented in Appendix A, and the SSL calculations are presented in Appendix B.

Based on the evaluation results presented herein, the subject stockpiles were either placed onsite or transported offsite to an appropriate regulated facility between September and December, 2001.

BOE-C6-0180483

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.

Anita Broughton, REA, CIH
Risk Assessment Task Manager

Richard M. Farson, PE
Senior Engineer

Attachments:

Figure 1	Soil Stockpile Reuse Protocol
Figure 2	Parcel C Exposure Areas
Table 1	Recommendations for Stockpiles SP-19 through SP-25
Appendix A	Laboratory Reports
Appendix B	Soil Screening Level (SSL) Calculations

BOE-C6-0180484

Boeing Realty Corporation
3760 Kilroy Airport Way, Suite 500
Long Beach, CA 90806
Telephone: 562-627-4900
FAX: 562-627-4906

06 May 2002
C6-BRC-T-02-009

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

BOEING

Attention: John Geroch

Subject: **STOCKPILE PLACEMENT/DISPOSITION EVALUATION, STOCKPILES SP-19 THROUGH SP-25 FOR BOEING REALTY CORPORATION, FORMER C-6 FACILITY, 19503 SOUTH NORMANDIE AVENUE, LOS ANGELES, CA**

Dear Mr. Geroch:

Please find enclosed for your review, a copy of the subject document prepared by Haley & Aldrich for Boeing Realty Corporation.

Per our meetings and your verbal approvals on October 25 and 30, 2001 and on January 31, 2002 soil from stockpiles SP-20, SP-21, SP-24, and SP-25 were reused onsite.

If you have any questions concerning this document, please contact the undersigned at 562-593-8623.

Sincerely,

Stephanie Sibbett

Stephanie Sibbett
Boeing Realty Corporation

Cc: Mario Stavale, Boeing Realty Corporation

enclosure

Tables

BOE-C6-0180486

Table 1
Recommendations for Stockpiles SP-19 through SP-25
BRC Former C-6 Facility, Los Angeles, California

Stockpile No.	Sample IDs	Approx. Volume	Analyses	Acceptable for Onsite Reuse? (Yes or No)	Restrictions on Parcel C Placement?	Recommendations
SP-19	SP-19-A, SP-19-B, SP-19-C, SP-19-D, SP-19-E, SP-19-F, SP-19-G, SP-19-H, SP-19-I, SP-19-J, SP-19-K, SP-19-L, SP-19-M, SP-19-N, SP-19-O, SP-19-P, SP-19-Q, SP-19-R, SP-19-S, SP-19-T	~ 5000 cy	Arsenic, TCLP, STLC	No	NA	Not acceptable for onsite reuse due to elevated arsenic levels. Results from soil samples collected from impacted areas during excavation contained arsenic that resulted in estimated health risks above target risk levels. Treat/dispose of offsite at a regulated facility.
SP-20	SP-20-1	~ 15 cy	PAHs, Metals, VOCs, SVOCs, TPH	Yes	None	Acceptable for reuse in any portion of Parcel C. Addition of analyte concentrations result in health risk below target risk levels, and detected VOCs do not pose a threat to groundwater quality at levels greater than MCLs.
SP-21	SP_21_100201_1, SP_21_100201_2	~ 20 cy	Metals, VOCs, SVOCs, TPH	Yes	Not acceptable for placement inside the Building 2 area	Acceptable for reuse in Parcel C with the exception of the Building 2 area. In these acceptable areas of Parcel C, addition of analyte concentrations result in health risk below target risk levels, and detected VOCs do not pose a threat to groundwater quality at levels greater than MCLs.
SP-22	BUILD_1_B_15_092701_10, BUILD_1_B_15_092701_16	~ 5 cy	Metals, VOCs, PAHs, PCBs, SVOCs, TPH	No	NA	Not acceptable for onsite reuse due to elevated metals and VOC results. Results from soil samples collected from impacted areas during excavation contained VOCs and metals that resulted in estimated health risks above target risk levels. Treat/dispose of offsite at a regulated facility.

BOE-C6-0180487

Table 1
Recommendations for Stockpiles SP-19 through SP-25
BRC Former C-6 Facility, Los Angeles, California

SP-23	SP_23_100201_1, SP_23_100201_2	~ 10 cy	Metals, VOCs, SVOCs, PAHs, TPH	No	NA	Not acceptable for onsite reuse due to elevated VOC results. Results from soil samples collected from impacted areas during excavation contained VOC that resulted in estimated health risks above target risk levels. Detected VOCs pose a threat to groundwater quality at levels greater than MCLs. Treat/dispose of offsite at a regulated facility.
SP-24	SP_24_102301_1, SP_24_102301_2	~ 40 cy	Arsenic, Lead, VOCs, PAHs, PCBs, TPH	Yes	None	Acceptable for reuse in any portion of Parcel C. Addition of analyte concentrations result in health risk below target risk levels, and detected VOCs do not pose a threat to groundwater quality at levels greater than MCLs.
SP-25	1-VEW-24-113001	~ 4 cy	Metals, VOCs, PAHs, TPH	Yes	None	Acceptable for reuse in any portion of Parcel C. Addition of analyte concentrations result in health risk below target risk levels, and detected VOCs do not pose a threat to groundwater quality at levels greater than MCLs.

cy = cubic yards
TCLP = Toxicity Characteristic Leaching Procedure
STLC = Soluble Threshold Limit Concentration
VOCs = Volatile Organic Compounds
SVOCs = Semi-volatile Organic Compounds
TPH = Total Petroleum Hydrocarbons
PAHs = Polynuclear Aromatic Hydrocarbons
PCBs = Polychlorinated Biphenyls

BOE-C6-0180488

Figures

BOE-C6-0180489

FORMER C-6 FACILITY
SOIL STOCKPILE RE-USE PROTOCOL

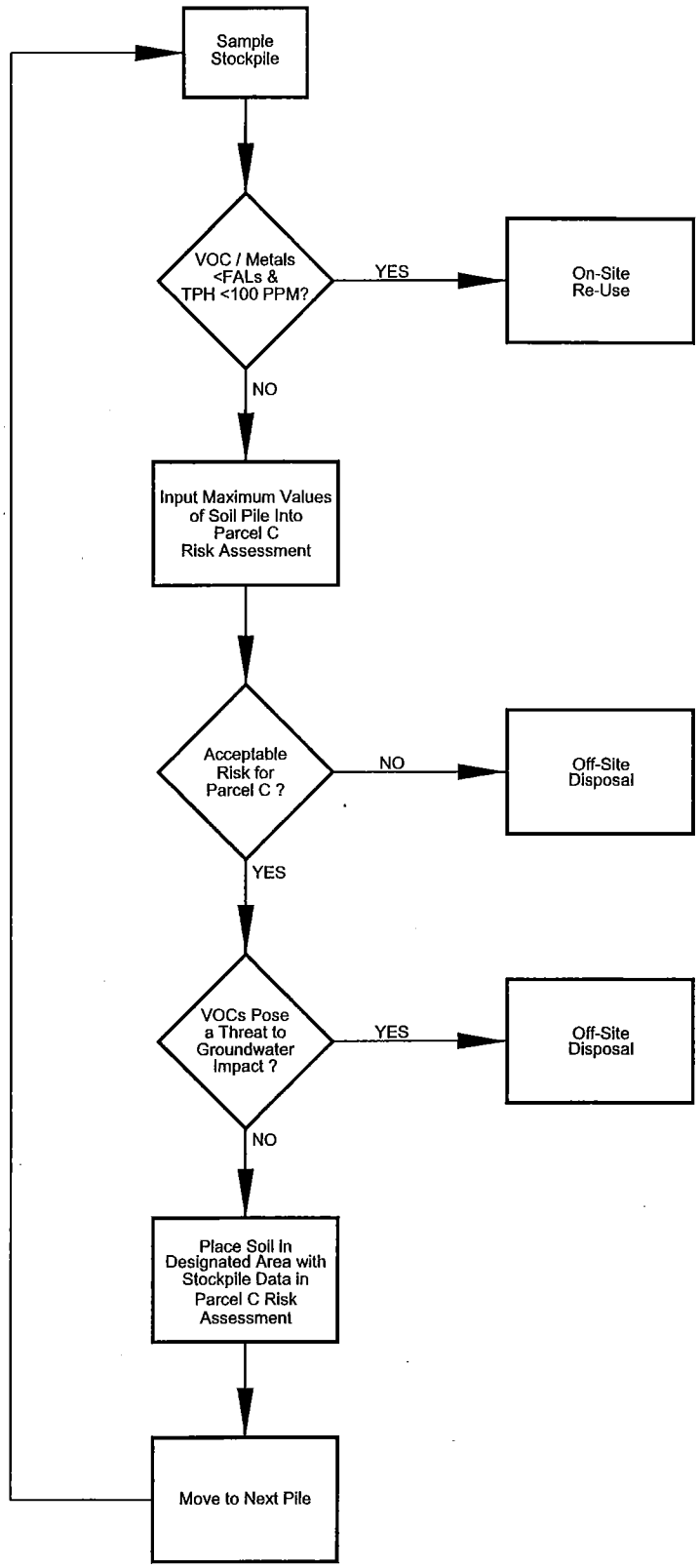
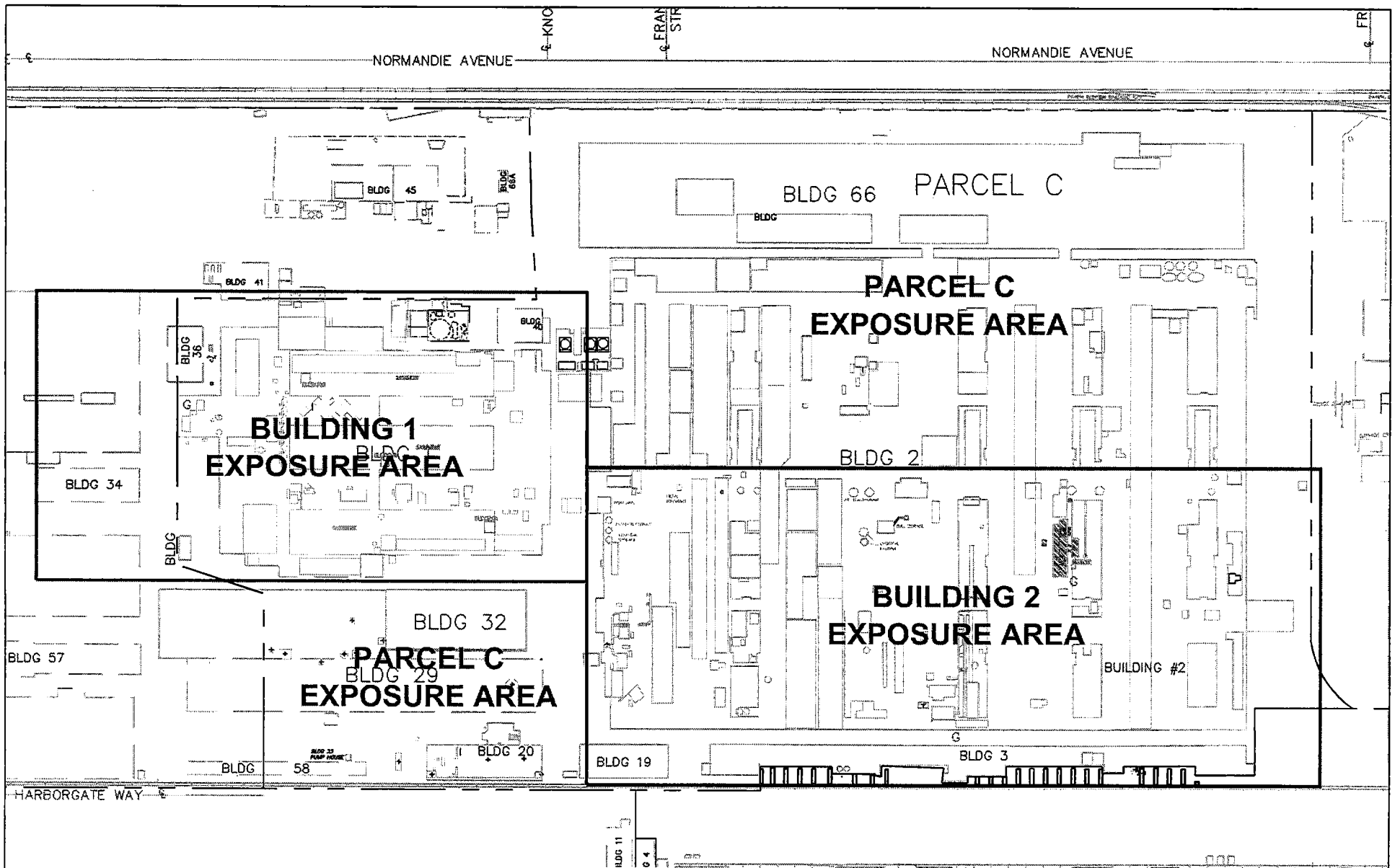


FIGURE 1

HALEY & ALDRICH



FORMER BOEING C-6 FACILITY
LOS ANGELES, CALIFORNIA

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

PARCEL C
EXPOSURE AREAS

FIGURE 2

18 JULY, 2001

BOE-C6-0180491

Appendix A

BOE-C6-0180492

APPENDIX A

LABORATORY REPORTS

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

October 4, 2001

STL LOT NUMBER: E1J010219
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 20 samples received under chain of custody by STL Los Angeles on October 1, 2001. 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. Additional requests for the Aquatic Toxicity and STLC for arsenic tests performed on sample SP-19-R and has been resubmitted and will be reported under E1J060154.

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

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 10/1/01	Chain of Custody Number: 054104
Address: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619 - 280 - 9210	Lab Number	Page 1 of 2
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact	Lab Contact	
Project Name and Location (State): BOEING C6 - TORRANCE	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 27285-001			

Analysis (Attach list if more space is needed): RCRA TITLE 22 METALS; STLC; TTLP

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	RCRA TITLE 22 METALS	STLC	TTLP	Special Instructions/ Conditions of Receipt
SP-19-A	10/1/01	815:00				X	X						X	H	H	HOLD FOR STLC
SP-19-B	↓	↓				↓	↓						↓	↓	↓	& TCLP IF
SP-19-C																METALS EXCEED
SP-19-D																RCRA LEVELS
SP-19-E																RUN FISH
SP-19-F																BIOASSAY ON
SP-19-G																HIGHEST
SP-19-H																
SP-19-I																
SP-19-J																
SP-19-K																
SP-19-L	↓	↓				↓	↓						↓	↓	↓	

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: TRAVIS HAMMOND	Date: 10/1/01	Time: 16:00	1. Received By: [signature]	Date: 10-1-01	Time: 1600
2. Relinquished By: [signature]	Date: 10-1-01	Time: 1700	2. Received By: Pacock	Date: 10-1-01	Time: 17:00
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

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

200000

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 10/1/01	Chain of Custody Number: 054105
Address: 9040 FRIARS RD. SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number	Page 2 of 2
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact	Lab Contact	
Project Name and Location (State): BOEING C6 - TORRANCE	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 27285-001			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TITLE 22 METALS	STLC TCLP	Special Instructions/ Conditions of Receipt
SP-19-M	10/1/01	1500				X	X						X	HOLD	HOLD FOR STLC & TCLP IF METALS EXCEED RCRA LEVELS
SP-19-N	↓	↓				↓	↓						↓	↓	
SP-19-O	↓	↓				↓	↓						↓	↓	
SP-19-P	↓	↓				↓	↓						↓	↓	
SP-19-Q	↓	↓				↓	↓						↓	↓	
SP-19-R	↓	↓				↓	↓						↓	↓	RUN FISH BIOASSAY ON HIGHEST
SP-19-S	↓	↓				↓	↓						↓	↓	
SP-19-T	↓	↓				↓	↓						↓	↓	

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 T

QC Requirements (Specify)

1. Relinquished By: TRAVIS HAMMOND	Date: 10/1/01	Time: 16:00	1. Received By	Date: 10-1-01	Time: 1600
2. Relinquished By	Date: 10-1-01	Time: 1700	2. Received By	Date: 10-1-01	Time: 17:00
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

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

SEVERN TRENT SERVICES

CHANGE ORDER

Lab Analysis No.	EIJ010219
Client Name	Haley + Aldrich
Contact	Beth Breitenbach

- [ ] CANCEL Work
- [x] ADD Work
- [ ] Chain of Custody Discrepancy
- [ ] TAT Change
- [ ] Matrix
- [ ] Sample Problem
- [ ] Tests Not Defined
- [ ] Other

EXPLANATION/RESOLUTION

Add moisture content to all samples.

Fish Tox on sample with highest arsenic hit.

Initiated By: [signature]

Date/Time: 10/2/01

Received By: _____

Date/Time: _____

Distribution:
Original - Sample Control/Job Folder; Yellow - Lab; Pink - Initiator

000004

ENS—3008

BOE-C6-0180497

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 10-1-2001

Quantims Lot #: E17010219
Quote #: 42295
Client Name: Haley & Aldrich
Project: Boeing C-6
Received by: A Recolta
Date/Time Received: 10/1/01 17:00
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☒In-House Courier ☐Rey B. ☐UPS ☐DES ☒Other Mike

	Initial / Date
Custody Seal Status: ☐Intact ☐Broken ☒None	RS 10/01/01
Custody Seal #(s): ☑No Seal #	
Sample Container(s): ☒STL-LA ☐Client ☐N/A	
Temperature(s) (COOLER/BLANK) in °C: 27°C (CORRECTED TEMP) 24°C	
Thermometer Used : ☑IR (Infra-red) A ☐Digital (Probe)	
Samples: ☑Intact (CF = -3.0°C) ☐Broken ☐Other	
Anomalies: ☑No ☒Yes (See Clouseau)	
Labeled by	
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) :
Samples come out directly from the field.

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

Fraction	1 → 20										PH
VOAh /*											N/A
8oz CGJ	2										—

h:HCl na:Sodium Hydoxide zana: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: Recolta 10/01/01 REVIEWED BY/DATE: [illegible] 10/01/01

000005

BOE-C6-0180498

SEVERN
TRENT
SERVICES

Analytical Report

000006

EXECUTIVE SUMMARY - Detection Highlights

E1J010219

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_19_A 10/01/01 15:00 001				
Mercury	0.029 B	0.10	mg/kg	SW846 7471A
Aluminum	19700	20.0	mg/kg	SW846 6010B
Arsenic	16.1	1.0	mg/kg	SW846 6010B
Barium	124	2.0	mg/kg	SW846 6010B
Chromium	23.3	1.0	mg/kg	SW846 6010B
Beryllium	0.60	0.50	mg/kg	SW846 6010B
Lead	5.9	0.50	mg/kg	SW846 6010B
Selenium	0.52	0.50	mg/kg	SW846 6010B
Cobalt	9.7	5.0	mg/kg	SW846 6010B
Copper	19.1	2.5	mg/kg	SW846 6010B
Molybdenum	0.60 B	4.0	mg/kg	SW846 6010B
Nickel	15.2	4.0	mg/kg	SW846 6010B
Thallium	1.0	1.0	mg/kg	SW846 6010B
Vanadium	47.7	5.0	mg/kg	SW846 6010B
Zinc	58.8	2.0	mg/kg	SW846 6010B
Percent Moisture	22.1	0.10	%	MCAWW 160.3 MOD
SP_19_B 10/01/01 15:00 002				
Mercury	0.020 B	0.10	mg/kg	SW846 7471A
Aluminum	17100	20.0	mg/kg	SW846 6010B
Arsenic	13.7	1.0	mg/kg	SW846 6010B
Barium	130	2.0	mg/kg	SW846 6010B
Cadmium	0.11 B	0.50	mg/kg	SW846 6010B
Chromium	26.6	1.0	mg/kg	SW846 6010B
Beryllium	0.51	0.50	mg/kg	SW846 6010B
Lead	10.6	0.50	mg/kg	SW846 6010B
Cobalt	10.0	5.0	mg/kg	SW846 6010B
Copper	25.2	2.5	mg/kg	SW846 6010B
Molybdenum	1.4 B	4.0	mg/kg	SW846 6010B
Nickel	19.8	4.0	mg/kg	SW846 6010B
Thallium	1.2	1.0	mg/kg	SW846 6010B
Vanadium	53.2	5.0	mg/kg	SW846 6010B
Zinc	62.8	2.0	mg/kg	SW846 6010B
Percent Moisture	20.1	0.10	%	MCAWW 160.3 MOD
SP_19_C 10/01/01 15:00 003				
Mercury	0.034 B	0.10	mg/kg	SW846 7471A
Aluminum	13800	20.0	mg/kg	SW846 6010B
Arsenic	26.7	1.0	mg/kg	SW846 6010B
Barium	134	2.0	mg/kg	SW846 6010B
Cadmium	0.15 B	0.50	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1J010219

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_19_C 10/01/01 15:00 003				
Chromium	21.7	1.0	mg/kg	SW846 6010B
Beryllium	0.40 B	0.50	mg/kg	SW846 6010B
Lead	14.4	0.50	mg/kg	SW846 6010B
Selenium	0.44 B	0.50	mg/kg	SW846 6010B
Cobalt	8.0	5.0	mg/kg	SW846 6010B
Copper	18.0	2.5	mg/kg	SW846 6010B
Molybdenum	1.3 B	4.0	mg/kg	SW846 6010B
Nickel	17.7	4.0	mg/kg	SW846 6010B
Vanadium	42.9	5.0	mg/kg	SW846 6010B
Zinc	62.9	2.0	mg/kg	SW846 6010B
Percent Moisture	18.9	0.10	%	MCAWW 160.3 MOD
SP_19_D 10/01/01 15:00 004				
Mercury	0.034 B	0.10	mg/kg	SW846 7471A
Aluminum	15700	20.0	mg/kg	SW846 6010B
Arsenic	26.4	1.0	mg/kg	SW846 6010B
Barium	130	2.0	mg/kg	SW846 6010B
Cadmium	0.15 B	0.50	mg/kg	SW846 6010B
Chromium	24.7	1.0	mg/kg	SW846 6010B
Beryllium	0.46 B	0.50	mg/kg	SW846 6010B
Lead	16.2	0.50	mg/kg	SW846 6010B
Selenium	0.51	0.50	mg/kg	SW846 6010B
Cobalt	9.4	5.0	mg/kg	SW846 6010B
Copper	20.2	2.5	mg/kg	SW846 6010B
Molybdenum	1.4 B	4.0	mg/kg	SW846 6010B
Nickel	18.7	4.0	mg/kg	SW846 6010B
Vanadium	49.0	5.0	mg/kg	SW846 6010B
Zinc	68.9	2.0	mg/kg	SW846 6010B
Percent Moisture	18.4	0.10	%	MCAWW 160.3 MOD
SP_19_E 10/01/01 15:00 005				
Mercury	0.037 B	0.10	mg/kg	SW846 7471A
Aluminum	19700	20.0	mg/kg	SW846 6010B
Arsenic	7.1	1.0	mg/kg	SW846 6010B
Barium	165	2.0	mg/kg	SW846 6010B
Chromium	27.1	1.0	mg/kg	SW846 6010B
Beryllium	0.57	0.50	mg/kg	SW846 6010B
Lead	9.7	0.50	mg/kg	SW846 6010B
Selenium	0.56	0.50	mg/kg	SW846 6010B
Cobalt	11.6	5.0	mg/kg	SW846 6010B
Copper	24.0	2.5	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1J010219

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_19_E 10/01/01 15:00 005				
Molybdenum	0.78 B	4.0	mg/kg	SW846 6010B
Nickel	19.8	4.0	mg/kg	SW846 6010B
Vanadium	54.3	5.0	mg/kg	SW846 6010B
Zinc	71.1	2.0	mg/kg	SW846 6010B
Percent Moisture	13.4	0.10	%	MCAWW 160.3 MOD
SP_19_F 10/01/01 15:00 006				
Mercury	0.033 B	0.10	mg/kg	SW846 7471A
Aluminum	22600	20.0	mg/kg	SW846 6010B
Arsenic	14.6	1.0	mg/kg	SW846 6010B
Barium	159	2.0	mg/kg	SW846 6010B
Chromium	29.1	1.0	mg/kg	SW846 6010B
Beryllium	0.63	0.50	mg/kg	SW846 6010B
Lead	9.6	0.50	mg/kg	SW846 6010B
Cobalt	11.5	5.0	mg/kg	SW846 6010B
Copper	24.6	2.5	mg/kg	SW846 6010B
Molybdenum	0.73 B	4.0	mg/kg	SW846 6010B
Nickel	20.3	4.0	mg/kg	SW846 6010B
Vanadium	55.8	5.0	mg/kg	SW846 6010B
Zinc	77.6	2.0	mg/kg	SW846 6010B
Percent Moisture	17.8	0.10	%	MCAWW 160.3 MOD
SP_19_G 10/01/01 15:00 007				
Mercury	0.034 B	0.10	mg/kg	SW846 7471A
Aluminum	16700	20.0	mg/kg	SW846 6010B
Arsenic	9.9	1.0	mg/kg	SW846 6010B
Barium	155	2.0	mg/kg	SW846 6010B
Cadmium	0.31 B	0.50	mg/kg	SW846 6010B
Chromium	28.8	1.0	mg/kg	SW846 6010B
Beryllium	0.47 B	0.50	mg/kg	SW846 6010B
Lead	12.1	0.50	mg/kg	SW846 6010B
Cobalt	10.1	5.0	mg/kg	SW846 6010B
Copper	22.6	2.5	mg/kg	SW846 6010B
Molybdenum	1.4 B	4.0	mg/kg	SW846 6010B
Nickel	20.4	4.0	mg/kg	SW846 6010B
Vanadium	53.9	5.0	mg/kg	SW846 6010B
Zinc	64.7	2.0	mg/kg	SW846 6010B
Percent Moisture	16.8	0.10	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1J010219

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_19_H 10/01/01 15:00 008				
Mercury	0.073 B	0.10	mg/kg	SW846 7471A
Aluminum	16800	20.0	mg/kg	SW846 6010B
Arsenic	6.5	1.0	mg/kg	SW846 6010B
Barium	145	2.0	mg/kg	SW846 6010B
Chromium	22.4	1.0	mg/kg	SW846 6010B
Beryllium	0.48 B	0.50	mg/kg	SW846 6010B
Lead	6.7	0.50	mg/kg	SW846 6010B
Selenium	0.57	0.50	mg/kg	SW846 6010B
Cobalt	10.4	5.0	mg/kg	SW846 6010B
Copper	21.2	2.5	mg/kg	SW846 6010B
Molybdenum	0.75 B	4.0	mg/kg	SW846 6010B
Nickel	15.4	4.0	mg/kg	SW846 6010B
Vanadium	47.3	5.0	mg/kg	SW846 6010B
Zinc	52.7	2.0	mg/kg	SW846 6010B
Percent Moisture	16.6	0.10	%	MCAWW 160.3 MOD
SP_19_I 10/01/01 15:00 009				
Mercury	0.024 B	0.10	mg/kg	SW846 7471A
Aluminum	18900	20.0	mg/kg	SW846 6010B
Arsenic	14.4	1.0	mg/kg	SW846 6010B
Barium	128	2.0	mg/kg	SW846 6010B
Chromium	25.5	1.0	mg/kg	SW846 6010B
Beryllium	0.53	0.50	mg/kg	SW846 6010B
Lead	9.0	0.50	mg/kg	SW846 6010B
Selenium	0.55	0.50	mg/kg	SW846 6010B
Cobalt	10.7	5.0	mg/kg	SW846 6010B
Copper	20.9	2.5	mg/kg	SW846 6010B
Molybdenum	0.90 B	4.0	mg/kg	SW846 6010B
Nickel	17.8	4.0	mg/kg	SW846 6010B
Vanadium	51.4	5.0	mg/kg	SW846 6010B
Zinc	59.9	2.0	mg/kg	SW846 6010B
Percent Moisture	17.4	0.10	%	MCAWW 160.3 MOD
SP_19_J 10/01/01 15:00 010				
Aluminum	18500	20.0	mg/kg	SW846 6010B
Arsenic	7.6	1.0	mg/kg	SW846 6010B
Barium	131	2.0	mg/kg	SW846 6010B
Chromium	23.1	1.0	mg/kg	SW846 6010B
Beryllium	0.53	0.50	mg/kg	SW846 6010B
Lead	8.2	0.50	mg/kg	SW846 6010B
Cobalt	10.0	5.0	mg/kg	SW846 6010B

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EXECUTIVE SUMMARY - Detection Highlights

E1J010219

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_19_J 10/01/01 15:00 010				
Copper	19.7	2.5	mg/kg	SW846 6010B
Molybdenum	0.62 B	4.0	mg/kg	SW846 6010B
Nickel	16.0	4.0	mg/kg	SW846 6010B
Vanadium	47.0	5.0	mg/kg	SW846 6010B
Zinc	51.0	2.0	mg/kg	SW846 6010B
Percent Moisture	17.7	0.10	%	MCAWW 160.3 MOD
SP_19_K 10/01/01 15:00 011				
Mercury	0.024 B	0.10	mg/kg	SW846 7471A
Aluminum	20900	20.0	mg/kg	SW846 6010B
Arsenic	13.1	1.0	mg/kg	SW846 6010B
Barium	163	2.0	mg/kg	SW846 6010B
Chromium	28.3	1.0	mg/kg	SW846 6010B
Beryllium	0.61	0.50	mg/kg	SW846 6010B
Lead	8.6	0.50	mg/kg	SW846 6010B
Cobalt	11.7	5.0	mg/kg	SW846 6010B
Copper	22.8	2.5	mg/kg	SW846 6010B
Molybdenum	0.88 B	4.0	mg/kg	SW846 6010B
Nickel	19.4	4.0	mg/kg	SW846 6010B
Vanadium	57.1	5.0	mg/kg	SW846 6010B
Zinc	59.5	2.0	mg/kg	SW846 6010B
Percent Moisture	17.7	0.10	%	MCAWW 160.3 MOD
SP_19_L 10/01/01 15:00 012				
Mercury	0.024 B	0.10	mg/kg	SW846 7471A
Aluminum	15900	20.0	mg/kg	SW846 6010B
Arsenic	7.7	1.0	mg/kg	SW846 6010B
Barium	152	2.0	mg/kg	SW846 6010B
Chromium	23.2	1.0	mg/kg	SW846 6010B
Beryllium	0.43 B	0.50	mg/kg	SW846 6010B
Lead	5.6	0.50	mg/kg	SW846 6010B
Cobalt	10.6	5.0	mg/kg	SW846 6010B
Copper	23.4	2.5	mg/kg	SW846 6010B
Molybdenum	0.67 B	4.0	mg/kg	SW846 6010B
Nickel	19.4	4.0	mg/kg	SW846 6010B
Vanadium	47.3	5.0	mg/kg	SW846 6010B
Zinc	52.2	2.0	mg/kg	SW846 6010B
Percent Moisture	17.0	0.10	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

E1J010219

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_19_M 10/01/01 15:00 013				
Mercury	0.050 B	0.10	mg/kg	SW846 7471A
Aluminum	30400	20.0	mg/kg	SW846 6010B
Arsenic	3.5	1.0	mg/kg	SW846 6010B
Barium	138	2.0	mg/kg	SW846 6010B
Chromium	33.4	1.0	mg/kg	SW846 6010B
Beryllium	0.85	0.50	mg/kg	SW846 6010B
Lead	5.7	0.50	mg/kg	SW846 6010B
Cobalt	11.8	5.0	mg/kg	SW846 6010B
Copper	21.1	2.5	mg/kg	SW846 6010B
Molybdenum	0.33 B	4.0	mg/kg	SW846 6010B
Nickel	22.1	4.0	mg/kg	SW846 6010B
Thallium	1.0	1.0	mg/kg	SW846 6010B
Vanadium	61.3	5.0	mg/kg	SW846 6010B
Zinc	67.0	2.0	mg/kg	SW846 6010B
Percent Moisture	23.2	0.10	%	MCAWW 160.3 MOD
SP_19_N 10/01/01 15:00 014				
Mercury	0.032 B	0.10	mg/kg	SW846 7471A
Aluminum	18000	20.0	mg/kg	SW846 6010B
Arsenic	5.4	1.0	mg/kg	SW846 6010B
Barium	142	2.0	mg/kg	SW846 6010B
Cadmium	1.6	0.50	mg/kg	SW846 6010B
Chromium	34.0	1.0	mg/kg	SW846 6010B
Beryllium	0.50	0.50	mg/kg	SW846 6010B
Lead	5.7	0.50	mg/kg	SW846 6010B
Cobalt	9.4	5.0	mg/kg	SW846 6010B
Copper	25.1	2.5	mg/kg	SW846 6010B
Molybdenum	3.1 B	4.0	mg/kg	SW846 6010B
Nickel	28.3	4.0	mg/kg	SW846 6010B
Thallium	0.87 B	1.0	mg/kg	SW846 6010B
Vanadium	73.7	5.0	mg/kg	SW846 6010B
Zinc	64.2	2.0	mg/kg	SW846 6010B
Percent Moisture	20.2	0.10	%	MCAWW 160.3 MOD
SP_19_O 10/01/01 15:00 015				
Aluminum	18000	20.0	mg/kg	SW846 6010B
Arsenic	3.7	1.0	mg/kg	SW846 6010B
Barium	157	2.0	mg/kg	SW846 6010B
Chromium	25.2	1.0	mg/kg	SW846 6010B
Beryllium	0.52	0.50	mg/kg	SW846 6010B
Lead	6.2	0.50	mg/kg	SW846 6010B

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EXECUTIVE SUMMARY - Detection Highlights

E1J010219

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_19_O 10/01/01 15:00 015				
Selenium	0.42 B	0.50	mg/kg	SW846 6010B
Cobalt	11.4	5.0	mg/kg	SW846 6010B
Copper	21.4	2.5	mg/kg	SW846 6010B
Molybdenum	0.81 B	4.0	mg/kg	SW846 6010B
Nickel	18.9	4.0	mg/kg	SW846 6010B
Vanadium	46.9	5.0	mg/kg	SW846 6010B
Zinc	61.3	2.0	mg/kg	SW846 6010B
Percent Moisture	20.9	0.10	%	MCAWW 160.3 MOD
SP_19_P 10/01/01 15:00 016				
Mercury	0.033 B	0.10	mg/kg	SW846 7471A
Aluminum	24200	20.0	mg/kg	SW846 6010B
Arsenic	4.7	1.0	mg/kg	SW846 6010B
Barium	203	2.0	mg/kg	SW846 6010B
Chromium	29.1	1.0	mg/kg	SW846 6010B
Beryllium	0.69	0.50	mg/kg	SW846 6010B
Lead	6.6	0.50	mg/kg	SW846 6010B
Cobalt	12.2	5.0	mg/kg	SW846 6010B
Copper	28.5	2.5	mg/kg	SW846 6010B
Molybdenum	0.68 B	4.0	mg/kg	SW846 6010B
Nickel	21.4	4.0	mg/kg	SW846 6010B
Vanadium	61.4	5.0	mg/kg	SW846 6010B
Zinc	68.1	2.0	mg/kg	SW846 6010B
Percent Moisture	18.2	0.10	%	MCAWW 160.3 MOD
SP_19_Q 10/01/01 15:00 017				
Mercury	0.029 B	0.10	mg/kg	SW846 7471A
Aluminum	18300	20.0	mg/kg	SW846 6010B
Arsenic	10.1	1.0	mg/kg	SW846 6010B
Barium	149	2.0	mg/kg	SW846 6010B
Chromium	24.9	1.0	mg/kg	SW846 6010B
Beryllium	0.54	0.50	mg/kg	SW846 6010B
Lead	8.0	0.50	mg/kg	SW846 6010B
Selenium	0.56	0.50	mg/kg	SW846 6010B
Cobalt	11.4	5.0	mg/kg	SW846 6010B
Copper	20.6	2.5	mg/kg	SW846 6010B
Molybdenum	0.82 B	4.0	mg/kg	SW846 6010B
Nickel	17.4	4.0	mg/kg	SW846 6010B
Vanadium	50.3	5.0	mg/kg	SW846 6010B
Zinc	53.3	2.0	mg/kg	SW846 6010B
Percent Moisture	19.8	0.10	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

E1J010219

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_19_R 10/01/01 15:00 018				
Aluminum	14100	20.0	mg/kg	SW846 6010B
Arsenic	32.8	1.0	mg/kg	SW846 6010B
Barium	118	2.0	mg/kg	SW846 6010B
Cadmium	0.28 B	0.50	mg/kg	SW846 6010B
Chromium	20.1	1.0	mg/kg	SW846 6010B
Beryllium	0.41 B	0.50	mg/kg	SW846 6010B
Lead	8.0	0.50	mg/kg	SW846 6010B
Cobalt	10.5	5.0	mg/kg	SW846 6010B
Copper	21.6	2.5	mg/kg	SW846 6010B
Molybdenum	1.3 B	4.0	mg/kg	SW846 6010B
Nickel	16.7	4.0	mg/kg	SW846 6010B
Vanadium	49.0	5.0	mg/kg	SW846 6010B
Zinc	45.6	2.0	mg/kg	SW846 6010B
Percent Moisture	15.2	0.10	%	MCAWW 160.3 MOD
SP_19_S 10/01/01 15:00 019				
Aluminum	21500	20.0	mg/kg	SW846 6010B
Arsenic	9.7	1.0	mg/kg	SW846 6010B
Barium	146	2.0	mg/kg	SW846 6010B
Chromium	27.6	1.0	mg/kg	SW846 6010B
Beryllium	0.60	0.50	mg/kg	SW846 6010B
Lead	7.8	0.50	mg/kg	SW846 6010B
Selenium	0.40 B	0.50	mg/kg	SW846 6010B
Cobalt	12.7	5.0	mg/kg	SW846 6010B
Copper	20.9	2.5	mg/kg	SW846 6010B
Molybdenum	1.6 B	4.0	mg/kg	SW846 6010B
Nickel	19.4	4.0	mg/kg	SW846 6010B
Vanadium	56.0	5.0	mg/kg	SW846 6010B
Zinc	61.0	2.0	mg/kg	SW846 6010B
Percent Moisture	17.3	0.10	%	MCAWW 160.3 MOD
SP_19_T 10/01/01 15:00 020				
Aluminum	16500	20.0	mg/kg	SW846 6010B
Arsenic	15.4	1.0	mg/kg	SW846 6010B
Barium	168	2.0	mg/kg	SW846 6010B
Cadmium	0.25 B	0.50	mg/kg	SW846 6010B
Chromium	24.3	1.0	mg/kg	SW846 6010B
Beryllium	0.48 B	0.50	mg/kg	SW846 6010B
Lead	7.9	0.50	mg/kg	SW846 6010B
Selenium	0.57	0.50	mg/kg	SW846 6010B
Cobalt	9.9	5.0	mg/kg	SW846 6010B

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EXECUTIVE SUMMARY - Detection Highlights

E1J010219

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_19_T 10/01/01 15:00 020				
Copper	19.1	2.5	mg/kg	SW846 6010B
Molybdenum	2.1 B	4.0	mg/kg	SW846 6010B
Nickel	17.6	4.0	mg/kg	SW846 6010B
Vanadium	53.1	5.0	mg/kg	SW846 6010B
Zinc	53.1	2.0	mg/kg	SW846 6010B
Percent Moisture	19.1	0.10	%	MCAWW 160.3 MOD

METHODS SUMMARY

E1J010219

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

E1J010219

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
ELEEA	001	SP_19_A	10/01/01	15:00
ELEEC	002	SP_19_B	10/01/01	15:00
ELEED	003	SP_19_C	10/01/01	15:00
ELEEE	004	SP_19_D	10/01/01	15:00
ELEEF	005	SP_19_E	10/01/01	15:00
ELEEG	006	SP_19_F	10/01/01	15:00
ELEEH	007	SP_19_G	10/01/01	15:00
ELEEJ	008	SP_19_H	10/01/01	15:00
ELEEK	009	SP_19_I	10/01/01	15:00
ELEEL	010	SP_19_J	10/01/01	15:00
ELEEM	011	SP_19_K	10/01/01	15:00
ELEEN	012	SP_19_L	10/01/01	15:00
ELEEP	013	SP_19_M	10/01/01	15:00
ELEEQ	014	SP_19_N	10/01/01	15:00
ELEER	015	SP_19_O	10/01/01	15:00
ELEET	016	SP_19_P	10/01/01	15:00
ELEEV	017	SP_19_Q	10/01/01	15:00
ELEEW	018	SP_19_R	10/01/01	15:00
ELEEX	019	SP_19_S	10/01/01	15:00
ELEE0	020	SP_19_T	10/01/01	15:00

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: SP_19_A

General Chemistry

Lot-Sample #...: E1J010219-001 Work Order #...: ELEEA Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	22.1	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 000022
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_B

General Chemistry

Lot-Sample #...: E1J010219-002 Work Order #...: ELEEC Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	20.1	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_C

General Chemistry

Lot-Sample #...: E1J010219-003 **Work Order #...:** ELEED **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**18.9**	**0.10**	**%**	**MCAWW 160.3 MOD**	**10/02-10/03/01**	**1275385**

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_D

General Chemistry

Lot-Sample #...: E1J010219-004 **Work Order #...:** ELEEE **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**18.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**10/02-10/03/01**	**1275385**

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_E

General Chemistry

Lot-Sample #...: E1J010219-005 Work Order #...: ELEEF Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	13.4	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_F

General Chemistry

Lot-Sample #...: E1J010219-006 **Work Order #...:** ELEEG **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**17.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**10/02-10/03/01**	**1275385**

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_G

General Chemistry

Lot-Sample #...: E1J010219-007 Work Order #...: ELEEH Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	16.8	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_H

General Chemistry

Lot-Sample #...: E1J010219-008 Work Order #...: ELEEJ Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	16.6	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_I

General Chemistry

Lot-Sample #...: E1J010219-009 Work Order #...: ELEEK Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	17.4	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_J

General Chemistry

Lot-Sample #...: E1J010219-010 **Work Order #...:** ELEEL **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**17.7**	**0.10**	**%**	**MCAWW 160.3 MOD**	**10/02-10/03/01**	**1275385**

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_K

General Chemistry

Lot-Sample #...: E1J010219-011 Work Order #...: ELEEM Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	17.7	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_L

General Chemistry

Lot-Sample #...: E1J010219-012 **Work Order #...:** ELEEN **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**17.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**10/02-10/03/01**	**1275385**

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_M

General Chemistry

Lot-Sample #...: E1J010219-013 Work Order #...: ELEEP Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	23.2	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_N

General Chemistry

Lot-Sample #...: E1J010219-014 Work Order #...: ELEEQ Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	20.2	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_O

General Chemistry

Lot-Sample #...: E1J010219-015 **Work Order #...:** ELEER **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**20.9**	**0.10**	**%**	**MCAWW 160.3 MOD**	**10/02-10/03/01**	**1275385**
	Dilution Factor: 1			Analysis Time..: 11:00	Analyst ID.....: 0000229	
	Instrument ID..: W15			MS Run #.....: 1275209	MDL.....:	

HALEY & ALDRICH INC

Client Sample ID: SP_19_P

General Chemistry

Lot-Sample #...: E1J010219-016 **Work Order #...:** ELEET **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**18.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**10/02-10/03/01**	**1275385**

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_Q

General Chemistry

Lot-Sample #...: E1J010219-017 Work Order #...: ELEEV Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	19.8	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_R

General Chemistry

Lot-Sample #...: E1J010219-018 Work Order #...: ELEEW Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	15.2	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_S

General Chemistry

Lot-Sample #...: E1J010219-019 Work Order #...: ELEEX Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	17.3	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_T

General Chemistry

Lot-Sample #...: E1J010219-020 Work Order #...: ELEE0 Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	19.1	0.10	%	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 0000229
Instrument ID..: W15 MS Run #.....: 1275209 MDL.....:

HALEY & ALDRICH INC

Client Sample ID: SP_19_A

TOTAL Metals

Lot-Sample #...: E1J010219-001 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**19700**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEA1AA**
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**16.1**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEA1AC**
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEA1AD
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**124**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEA1AE**
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEA1AF
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**23.3**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEA1AG**
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.60**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEA1AH**
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**5.9**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEA1AJ**
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	**0.52**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEA1AK**
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEA1AL
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_A

TOTAL Metals

Lot-Sample #...: E1J010219-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	9.7	5.0	mg/kg	SW846 6010B	10/02/01	ELEEA1AM
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	19.1	2.5	mg/kg	SW846 6010B	10/02/01	ELEEA1AN
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.60 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEA1AP
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	15.2	4.0	mg/kg	SW846 6010B	10/02/01	ELEEA1AQ
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	1.0	1.0	mg/kg	SW846 6010B	10/02/01	ELEEA1AR
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	47.7	5.0	mg/kg	SW846 6010B	10/02/01	ELEEA1AT
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	58.8	2.0	mg/kg	SW846 6010B	10/02/01	ELEEA1AU
		Dilution Factor: 1		Analysis Time..: 17:23	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	
Prep Batch #...: 1275237						
Mercury	0.029 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEA1AV
		Dilution Factor: 1		Analysis Time..: 13:51	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_B

TOTAL Metals

Lot-Sample #...: E1J010219-002 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**17100**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEC1AA**
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**13.7**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEC1AC**
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEC1AD
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**130**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEC1AE**
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	**0.11 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEC1AF**
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**26.6**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEC1AG**
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.51**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEC1AH**
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**10.6**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEC1AJ**
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEC1AK
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEC1AL
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_B

TOTAL Metals

Lot-Sample #...: E1J010219-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	10.0	5.0	mg/kg	SW846 6010B	10/02/01	ELEEC1AM
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	25.2	2.5	mg/kg	SW846 6010B	10/02/01	ELEEC1AN
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	1.4 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEC1AP
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	19.8	4.0	mg/kg	SW846 6010B	10/02/01	ELEEC1AQ
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	1.2	1.0	mg/kg	SW846 6010B	10/02/01	ELEEC1AR
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	53.2	5.0	mg/kg	SW846 6010B	10/02/01	ELEEC1AT
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	62.8	2.0	mg/kg	SW846 6010B	10/02/01	ELEEC1AU
		Dilution Factor: 1		Analysis Time..: 17:58	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	
Prep Batch #...: 1275237						
Mercury	0.020 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEC1AV
		Dilution Factor: 1		Analysis Time..: 14:00	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_C

TOTAL Metals

Lot-Sample #...: E1J010219-003 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**13800**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AA**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**26.7**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AC**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEED1AD
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**134**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AE**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	**0.15 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AF**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**21.7**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AG**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.40 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AH**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**14.4**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AJ**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	**0.44 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AK**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEED1AL
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_C

TOTAL Metals

Lot-Sample #...: E1J010219-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	**8.0**	**5.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AM**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	**18.0**	**2.5**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AN**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	**1.3 B**	**4.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AP**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	**17.7**	**4.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AQ**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEED1AR
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	**42.9**	**5.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AT**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	**62.9**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEED1AU**
		Dilution Factor: 1		Analysis Time..: 18:06	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	**0.034 B**	**0.10**	**mg/kg**	**SW846 7471A**	**10/02/01**	**ELEED1AV**
		Dilution Factor: 1		Analysis Time..: 14:02	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_D

TOTAL Metals

Lot-Sample #...: E1J010219-004 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**15700**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEE1AA**
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**26.4**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEE1AC**
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEE1AD
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**130**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEE1AE**
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	**0.15 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEE1AF**
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**24.7**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEE1AG**
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.46 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEE1AH**
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**16.2**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEE1AJ**
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	**0.51**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEE1AK**
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEE1AL
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_D

TOTAL Metals

Lot-Sample #...: E1J010219-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	9.4	5.0	mg/kg	SW846 6010B	10/02/01	ELEEE1AM
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	20.2	2.5	mg/kg	SW846 6010B	10/02/01	ELEEE1AN
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	1.4 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEE1AP
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	18.7	4.0	mg/kg	SW846 6010B	10/02/01	ELEEE1AQ
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEE1AR
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	49.0	5.0	mg/kg	SW846 6010B	10/02/01	ELEEE1AT
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	68.9	2.0	mg/kg	SW846 6010B	10/02/01	ELEEE1AU
		Dilution Factor: 1		Analysis Time..: 18:15	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	0.034 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEE1AV
		Dilution Factor: 1		Analysis Time..: 14:04	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_E

TOTAL Metals

Lot-Sample #...: E1J010219-005 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**19700**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEF1AA**
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**7.1**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEF1AC**
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEF1AD
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**165**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEF1AE**
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEF1AF
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**27.1**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEF1AG**
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.57**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEF1AH**
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**9.7**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEF1AJ**
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	**0.56**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEF1AK**
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEF1AL
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_E

TOTAL Metals

Lot-Sample #...: E1J010219-005 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	11.6	5.0	mg/kg	SW846 6010B	10/02/01	ELEEF1AM
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	24.0	2.5	mg/kg	SW846 6010B	10/02/01	ELEEF1AN
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.78 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEF1AP
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	19.8	4.0	mg/kg	SW846 6010B	10/02/01	ELEEF1AQ
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEF1AR
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	54.3	5.0	mg/kg	SW846 6010B	10/02/01	ELEEF1AT
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	71.1	2.0	mg/kg	SW846 6010B	10/02/01	ELEEF1AU
		Dilution Factor: 1		Analysis Time..: 18:40	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	
Prep Batch #...: 1275237						
Mercury	0.037 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEF1AV
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_F

TOTAL Metals

Lot-Sample #...: E1J010219-006 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**22600**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEG1AA**
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**14.6**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEG1AC**
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEG1AD
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**159**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEG1AE**
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEG1AF
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**29.1**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEG1AG**
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.63**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEG1AH**
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**9.6**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEG1AJ**
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEG1AK
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEG1AL
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_F

TOTAL Metals

Lot-Sample #...: E1J010219-006 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	11.5	5.0	mg/kg	SW846 6010B	10/02/01	ELEEG1AM
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	24.6	2.5	mg/kg	SW846 6010B	10/02/01	ELEEG1AN
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.73 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEG1AP
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	20.3	4.0	mg/kg	SW846 6010B	10/02/01	ELEEG1AQ
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEG1AR
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	55.8	5.0	mg/kg	SW846 6010B	10/02/01	ELEEG1AT
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	77.6	2.0	mg/kg	SW846 6010B	10/02/01	ELEEG1AU
		Dilution Factor: 1		Analysis Time..: 18:48	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	
Prep Batch #...: 1275237						
Mercury	0.033 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEG1AV
		Dilution Factor: 1		Analysis Time..: 14:07	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_G

TOTAL Metals

Lot-Sample #...: E1J010219-007 Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**16700**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEH1AA**
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL..... : 8.0	
Arsenic	**9.9**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEH1AC**
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEH1AD
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**155**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEH1AE**
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.... : 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	**0.31 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEH1AF**
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**28.8**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEH1AG**
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.47 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEH1AH**
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**12.1**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEH1AJ**
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEH1AK
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEH1AL
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_G

TOTAL Metals

Lot-Sample #...: E1J010219-007 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	10.1	5.0	mg/kg	SW846 6010B	10/02/01	ELEEH1AM
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	22.6	2.5	mg/kg	SW846 6010B	10/02/01	ELEEH1AN
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	1.4 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEH1AP
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	20.4	4.0	mg/kg	SW846 6010B	10/02/01	ELEEH1AQ
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEH1AR
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	53.9	5.0	mg/kg	SW846 6010B	10/02/01	ELEEH1AT
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	64.7	2.0	mg/kg	SW846 6010B	10/02/01	ELEEH1AU
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	
Prep Batch #...: 1275237						
Mercury	0.034 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEH1AV
		Dilution Factor: 1		Analysis Time..: 14:09	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_H

TOTAL Metals

Lot-Sample #...: E1J010219-008 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**16800**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEJ1AA**
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**6.5**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEJ1AC**
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEJ1AD
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**145**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEJ1AE**
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEJ1AF
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**22.4**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEJ1AG**
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.48 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEJ1AH**
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**6.7**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEJ1AJ**
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	**0.57**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEJ1AK**
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEJ1AL
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_H

TOTAL Metals

Lot-Sample #...: E1J010219-008 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	10.4	5.0	mg/kg	SW846 6010B	10/02/01	ELEEJ1AM
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	21.2	2.5	mg/kg	SW846 6010B	10/02/01	ELEEJ1AN
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.75 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEJ1AP
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	15.4	4.0	mg/kg	SW846 6010B	10/02/01	ELEEJ1AQ
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEJ1AR
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	47.3	5.0	mg/kg	SW846 6010B	10/02/01	ELEEJ1AT
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	52.7	2.0	mg/kg	SW846 6010B	10/02/01	ELEEJ1AU
		Dilution Factor: 1		Analysis Time..: 19:05	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	0.073 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEJ1AV
		Dilution Factor: 1		Analysis Time..: 14:11	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_I

TOTAL Metals

Lot-Sample #...: E1J010219-009 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**18900**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEK1AA**
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**14.4**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEK1AC**
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEK1AD
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**128**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEK1AE**
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEK1AF
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**25.5**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEK1AG**
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.53**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEK1AH**
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**9.0**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEK1AJ**
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	**0.55**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEK1AK**
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEK1AL
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_I

TOTAL Metals

Lot-Sample #...: E1J010219-009 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	10.7	5.0	mg/kg	SW846 6010B	10/02/01	ELEEK1AM
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	20.9	2.5	mg/kg	SW846 6010B	10/02/01	ELEEK1AN
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.90 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEK1AP
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	17.8	4.0	mg/kg	SW846 6010B	10/02/01	ELEEK1AQ
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEK1AR
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	51.4	5.0	mg/kg	SW846 6010B	10/02/01	ELEEK1AT
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	59.9	2.0	mg/kg	SW846 6010B	10/02/01	ELEEK1AU
		Dilution Factor: 1		Analysis Time..: 19:13	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	0.024 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEK1AV
		Dilution Factor: 1		Analysis Time..: 14:12	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_J

TOTAL Metals

Lot-Sample #...: E1J010219-010 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**18500**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEL1AA**
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**7.6**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEL1AC**
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEL1AD
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL..... : 0.60	
Barium	**131**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEL1AE**
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEL1AF
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**23.1**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEL1AG**
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.53**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEL1AH**
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**8.2**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEL1AJ**
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEL1AK
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEL1AL
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_J

TOTAL Metals

Lot-Sample #...: E1J010219-010 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	10.0	5.0	mg/kg	SW846 6010B	10/02/01	ELEEL1AM
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	19.7	2.5	mg/kg	SW846 6010B	10/02/01	ELEEL1AN
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.62 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEL1AP
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	16.0	4.0	mg/kg	SW846 6010B	10/02/01	ELEEL1AQ
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEL1AR
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	47.0	5.0	mg/kg	SW846 6010B	10/02/01	ELEEL1AT
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	51.0	2.0	mg/kg	SW846 6010B	10/02/01	ELEEL1AU
		Dilution Factor: 1		Analysis Time..: 19:21	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	ND	0.10	mg/kg	SW846 7471A	10/02/01	ELEEL1AV
		Dilution Factor: 1		Analysis Time..: 14:18	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_K

TOTAL Metals

Lot-Sample #...: E1J010219-011 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**20900**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEM1AA**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**13.1**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEM1AC**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEM1AD
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**163**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEM1AE**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEM1AF
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**28.3**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEM1AG**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.61**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEM1AH**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**8.6**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEM1AJ**
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEM1AK
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEM1AL
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_K

TOTAL Metals

Lot-Sample #...: E1J010219-011 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	11.7	5.0	mg/kg	SW846 6010B	10/02/01	ELEEM1AM
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	22.8	2.5	mg/kg	SW846 6010B	10/02/01	ELEEM1AN
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.88 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEM1AP
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	19.4	4.0	mg/kg	SW846 6010B	10/02/01	ELEEM1AQ
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEM1AR
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	57.1	5.0	mg/kg	SW846 6010B	10/02/01	ELEEM1AT
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	59.5	2.0	mg/kg	SW846 6010B	10/02/01	ELEEM1AU
		Dilution Factor: 1		Analysis Time..: 19:30	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	
Prep Batch #...: 1275237						
Mercury	0.024 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEM1AV
		Dilution Factor: 1		Analysis Time..: 14:19	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_L

TOTAL Metals

Lot-Sample #...: E1J010219-012 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**15900**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEN1AA**
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**7.7**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEN1AC**
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEN1AD
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**152**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEN1AE**
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEN1AF
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**23.2**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEN1AG**
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.43 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEN1AH**
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**5.6**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEN1AJ**
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEN1AK
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEN1AL
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_L

TOTAL Metals

Lot-Sample #...: E1J010219-012 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	10.6	5.0	mg/kg	SW846 6010B	10/02/01	ELEEN1AM
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	23.4	2.5	mg/kg	SW846 6010B	10/02/01	ELEEN1AN
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.67 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEN1AP
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	19.4	4.0	mg/kg	SW846 6010B	10/02/01	ELEEN1AQ
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEN1AR
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	47.3	5.0	mg/kg	SW846 6010B	10/02/01	ELEEN1AT
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	52.2	2.0	mg/kg	SW846 6010B	10/02/01	ELEEN1AU
		Dilution Factor: 1		Analysis Time..: 19:38	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	0.024 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEN1AV
		Dilution Factor: 1		Analysis Time..: 14:39	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_M

TOTAL Metals

Lot-Sample #...: E1J010219-013 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**30400**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEP1AA**
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**3.5**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEP1AC**
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEP1AD
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**138**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEP1AE**
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEP1AF
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**33.4**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEP1AG**
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.85**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEP1AH**
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**5.7**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEP1AJ**
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEP1AK
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEP1AL
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_M

TOTAL Metals

Lot-Sample #...: E1J010219-013 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	11.8	5.0	mg/kg	SW846 6010B	10/02/01	ELEEP1AM
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	21.1	2.5	mg/kg	SW846 6010B	10/02/01	ELEEP1AN
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.33 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEP1AP
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	22.1	4.0	mg/kg	SW846 6010B	10/02/01	ELEEP1AQ
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	1.0	1.0	mg/kg	SW846 6010B	10/02/01	ELEEP1AR
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	61.3	5.0	mg/kg	SW846 6010B	10/02/01	ELEEP1AT
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	67.0	2.0	mg/kg	SW846 6010B	10/02/01	ELEEP1AU
		Dilution Factor: 1		Analysis Time..: 19:46	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	
Prep Batch #...: 1275237						
Mercury	0.050 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEP1AV
		Dilution Factor: 1		Analysis Time..: 14:21	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_N

TOTAL Metals

Lot-Sample #...: E1J010219-014 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**18000**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEQ1AA**
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**5.4**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEQ1AC**
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEQ1AD
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**142**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEQ1AE**
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	**1.6**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEQ1AF**
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**34.0**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEQ1AG**
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.50**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEQ1AH**
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**5.7**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEQ1AJ**
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEQ1AK
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEQ1AL
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_N

TOTAL Metals

Lot-Sample #...: E1J010219-014 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	9.4	5.0	mg/kg	SW846 6010B	10/02/01	ELEEQ1AM
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	25.1	2.5	mg/kg	SW846 6010B	10/02/01	ELEEQ1AN
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	3.1 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEQ1AP
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	28.3	4.0	mg/kg	SW846 6010B	10/02/01	ELEEQ1AQ
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	0.87 B	1.0	mg/kg	SW846 6010B	10/02/01	ELEEQ1AR
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	73.7	5.0	mg/kg	SW846 6010B	10/02/01	ELEEQ1AT
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	64.2	2.0	mg/kg	SW846 6010B	10/02/01	ELEEQ1AU
		Dilution Factor: 1		Analysis Time..: 19:55	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	
Prep Batch #...: 1275237						
Mercury	0.032 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEQ1AV
		Dilution Factor: 1		Analysis Time..: 14:23	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_O

TOTAL Metals

Lot-Sample #...: E1J010219-015 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**18000**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEER1AA**
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**3.7**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEER1AC**
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEER1AD
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**157**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEER1AE**
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEER1AF
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**25.2**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEER1AG**
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.52**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEER1AH**
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**6.2**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEER1AJ**
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	**0.42 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEER1AK**
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEER1AL
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_O

TOTAL Metals

Lot-Sample #...: E1J010219-015 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	11.4	5.0	mg/kg	SW846 6010B	10/02/01	ELEER1AM
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	21.4	2.5	mg/kg	SW846 6010B	10/02/01	ELEER1AN
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.81 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEER1AP
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	18.9	4.0	mg/kg	SW846 6010B	10/02/01	ELEER1AQ
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEER1AR
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	46.9	5.0	mg/kg	SW846 6010B	10/02/01	ELEER1AT
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	61.3	2.0	mg/kg	SW846 6010B	10/02/01	ELEER1AU
		Dilution Factor: 1		Analysis Time..: 20:18	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	ND	0.10	mg/kg	SW846 7471A	10/02/01	ELEER1AV
		Dilution Factor: 1		Analysis Time..: 14:25	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_P

TOTAL Metals

Lot-Sample #...: E1J010219-016 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**24200**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEET1AA**
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**4.7**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEET1AC**
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEET1AD
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**203**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEET1AE**
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEET1AF
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**29.1**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEET1AG**
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.69**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEET1AH**
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**6.6**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEET1AJ**
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEET1AK
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEET1AL
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_P

TOTAL Metals

Lot-Sample #...: E1J010219-016 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	12.2	5.0	mg/kg	SW846 6010B	10/02/01	ELEET1AM
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	28.5	2.5	mg/kg	SW846 6010B	10/02/01	ELEET1AN
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.68 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEET1AP
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	21.4	4.0	mg/kg	SW846 6010B	10/02/01	ELEET1AQ
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEET1AR
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	61.4	5.0	mg/kg	SW846 6010B	10/02/01	ELEET1AT
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	68.1	2.0	mg/kg	SW846 6010B	10/02/01	ELEET1AU
		Dilution Factor: 1		Analysis Time..: 20:26	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	
Prep Batch #...: 1275237						
Mercury	0.033 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEET1AV
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_Q

TOTAL Metals

Lot-Sample #...: E1J010219-017 Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**18300**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEV1AA**
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**10.1**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEV1AC**
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEV1AD
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**149**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEV1AE**
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEV1AF
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**24.9**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEV1AG**
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.54**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEV1AH**
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**8.0**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEV1AJ**
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	**0.56**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEV1AK**
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEV1AL
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_Q

TOTAL Metals

Lot-Sample #...: E1J010219-017 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	11.4	5.0	mg/kg	SW846 6010B	10/02/01	ELEEV1AM
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	20.6	2.5	mg/kg	SW846 6010B	10/02/01	ELEEV1AN
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	0.82 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEV1AP
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	17.4	4.0	mg/kg	SW846 6010B	10/02/01	ELEEV1AQ
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEV1AR
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	50.3	5.0	mg/kg	SW846 6010B	10/02/01	ELEEV1AT
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	53.3	2.0	mg/kg	SW846 6010B	10/02/01	ELEEV1AU
		Dilution Factor: 1		Analysis Time..: 20:34	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	0.029 B	0.10	mg/kg	SW846 7471A	10/02/01	ELEEV1AV
		Dilution Factor: 1		Analysis Time..: 14:28	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_R

TOTAL Metals

Lot-Sample #...: E1J010219-018 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**14100**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AA**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**32.8**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AC**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEW1AD
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**118**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AE**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	**0.28 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AF**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**20.1**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AG**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.41 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AH**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**8.0**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AJ**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEW1AK
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEW1AL
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_R

TOTAL Metals

Lot-Sample #...: E1J010219-018 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	**10.5**	**5.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AM**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	**21.6**	**2.5**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AN**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	**1.3 B**	**4.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AP**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	**16.7**	**4.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AQ**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEW1AR
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	**49.0**	**5.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AT**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	**45.6**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEW1AU**
		Dilution Factor: 1		Analysis Time..: 20:43	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	ND	0.10	mg/kg	SW846 7471A	10/02/01	ELEEW1AV
		Dilution Factor: 1		Analysis Time..: 14:30	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_S

TOTAL Metals

Lot-Sample #...: E1J010219-019 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**21500**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEX1AA**
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**9.7**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEX1AC**
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEEX1AD
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**146**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEX1AE**
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEEX1AF
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**27.6**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEX1AG**
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.60**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEX1AH**
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**7.8**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEX1AJ**
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	**0.40 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEEX1AK**
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEX1AL
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_S

TOTAL Metals

Lot-Sample #...: E1J010219-019 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	12.7	5.0	mg/kg	SW846 6010B	10/02/01	ELEEX1AM
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	20.9	2.5	mg/kg	SW846 6010B	10/02/01	ELEEX1AN
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	1.6 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEEX1AP
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	19.4	4.0	mg/kg	SW846 6010B	10/02/01	ELEEX1AQ
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEEX1AR
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	56.0	5.0	mg/kg	SW846 6010B	10/02/01	ELEEX1AT
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	61.0	2.0	mg/kg	SW846 6010B	10/02/01	ELEEX1AU
		Dilution Factor: 1		Analysis Time..: 20:51	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	ND	0.10	mg/kg	SW846 7471A	10/02/01	ELEEX1AV
		Dilution Factor: 1		Analysis Time..: 14:32	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_19_T

TOTAL Metals

Lot-Sample #...: E1J010219-020 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275230						
Aluminum	**16500**	**20.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEE01AA**
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 8.0	
Arsenic	**15.4**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEE01AC**
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEE01AD
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.60	
Barium	**168**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEE01AE**
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Cadmium	**0.25 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEE01AF**
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.060	
Chromium	**24.3**	**1.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEE01AG**
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Beryllium	**0.48 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEE01AH**
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.050	
Lead	**7.9**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEE01AJ**
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Selenium	**0.57**	**0.50**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELEE01AK**
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEE01AL
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_19_T

TOTAL Metals

Lot-Sample #...: E1J010219-020 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	9.9	5.0	mg/kg	SW846 6010B	10/02/01	ELEE01AM
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Copper	19.1	2.5	mg/kg	SW846 6010B	10/02/01	ELEE01AN
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.40	
Molybdenum	2.1 B	4.0	mg/kg	SW846 6010B	10/02/01	ELEE01AP
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Nickel	17.6	4.0	mg/kg	SW846 6010B	10/02/01	ELEE01AQ
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEE01AR
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.80	
Vanadium	53.1	5.0	mg/kg	SW846 6010B	10/02/01	ELEE01AT
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 0.10	
Zinc	53.1	2.0	mg/kg	SW846 6010B	10/02/01	ELEE01AU
		Dilution Factor: 1		Analysis Time..: 20:59	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1275100	MDL.....: 1.0	

Prep Batch #...: 1275237

Mercury	ND	0.10	mg/kg	SW846 7471A	10/02/01	ELEE01AV
		Dilution Factor: 1		Analysis Time..: 14:33	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1275103	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

SEVERN
TRENT
SERVICES

QA/QC

000078

QC DATA ASSOCIATION SUMMARY

E1J010219

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
002	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
003	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
004	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
005	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
006	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
007	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
008	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
009	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
010	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
011	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209

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QC DATA ASSOCIATION SUMMARY

E1J010219

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
012	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
013	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
014	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
015	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
016	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
017	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
018	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
019	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209
020	SOLID	SW846 7471A		1275237	1275103
	SOLID	SW846 6010B		1275230	1275100
	SOLID	MCAWW 160.3 MOD		1275385	1275209

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1J020000-230 **Prep Batch #...:** 1275230						
Aluminum	ND	20.0	mg/kg	SW846 6010B	10/02/01	ELEP71AA
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEP71AC
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELEP71AD
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	10/02/01	ELEP71AE
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEP71AF
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEP71AG
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEP71AH
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEP71AJ
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELEP71AK
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEP71AL
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	10/02/01	ELEP71AM
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	10/02/01	ELEP71AN
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	10/02/01	ELEP71AP
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	10/02/01	ELEP71AQ
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELEP71AR
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	10/02/01	ELEP71AT
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	10/02/01	ELEP71AU
		Dilution Factor: 1				
		Analysis Time..: 17:06		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E1J020000-237 **Prep Batch #...:** 1275237

Mercury	ND	0.10	mg/kg	SW846 7471A	10/02/01	ELEQ21AA
		Dilution Factor: 1				
		Analysis Time..: 13:47		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1J020000-230 **Prep Batch #...:** 1275230							
Aluminum	200	182	mg/kg	91	SW846 6010B	10/02/01	ELEP71AV
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	200	190	mg/kg	95	SW846 6010B	10/02/01	ELEP71AW
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	42.9	mg/kg	86	SW846 6010B	10/02/01	ELEP71AX
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	207	mg/kg	104	SW846 6010B	10/02/01	ELEP71A0
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	5.07	mg/kg	101	SW846 6010B	10/02/01	ELEP71A1
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	20.7	mg/kg	103	SW846 6010B	10/02/01	ELEP71A2
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	5.10	mg/kg	102	SW846 6010B	10/02/01	ELEP71A3
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	47.1	mg/kg	94	SW846 6010B	10/02/01	ELEP71A4
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	182	mg/kg	91	SW846 6010B	10/02/01	ELEP71A5
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.84	mg/kg	97	SW846 6010B	10/02/01	ELEP71A6
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	49.8	mg/kg	100	SW846 6010B	10/02/01	ELEP71A7
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	24.2	mg/kg	97	SW846 6010B	10/02/01	ELEP71A8
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	98.4	mg/kg	98	SW846 6010B	10/02/01	ELEP71A9
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	52.1	mg/kg	104	SW846 6010B	10/02/01	ELEP71CA
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	182	mg/kg	91	SW846 6010B	10/02/01	ELEP71CC
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	50.5	mg/kg	101	SW846 6010B	10/02/01	ELEP71CD
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	50.8	mg/kg	102	SW846 6010B	10/02/01	ELEP71CE
			Dilution Factor: 1				
			Analysis Time..: 17:12		Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E1J020000-237 **Prep Batch #...:** 1275237

Mercury	0.833	0.854	mg/kg	102	SW846 7471A	10/02/01	ELEQ21AC
			Dilution Factor: 1				
			Analysis Time..: 13:49		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

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1J020000-230 **Prep Batch #...:** 1275230					
Aluminum	91	(70 - 115)	SW846 6010B	10/02/01	ELEP71AV
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Arsenic	95	(75 - 115)	SW846 6010B	10/02/01	ELEP71AW
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Antimony	86	(75 - 115)	SW846 6010B	10/02/01	ELEP71AX
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Barium	104	(80 - 120)	SW846 6010B	10/02/01	ELEP71A0
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Cadmium	101	(80 - 120)	SW846 6010B	10/02/01	ELEP71A1
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Chromium	103	(85 - 120)	SW846 6010B	10/02/01	ELEP71A2
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Beryllium	102	(80 - 120)	SW846 6010B	10/02/01	ELEP71A3
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Lead	94	(80 - 120)	SW846 6010B	10/02/01	ELEP71A4
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Selenium	91	(70 - 115)	SW846 6010B	10/02/01	ELEP71A5
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Silver	97	(80 - 120)	SW846 6010B	10/02/01	ELEP71A6
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	100	(80 - 120)	SW846 6010B	10/02/01	ELEP71A7
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Copper	97	(80 - 120)	SW846 6010B	10/02/01	ELEP71A8
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Molybdenum	98	(80 - 120)	SW846 6010B	10/02/01	ELEP71A9
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Nickel	104	(80 - 120)	SW846 6010B	10/02/01	ELEP71CA
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Thallium	91	(75 - 125)	SW846 6010B	10/02/01	ELEP71CC
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Vanadium	101	(80 - 120)	SW846 6010B	10/02/01	ELEP71CD
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01
Zinc	102	(80 - 120)	SW846 6010B	10/02/01	ELEP71CE
		Dilution Factor: 1			
		Analysis Time..: 17:12	Analyst ID.....: 021088		Instrument ID..: M01

LCS Lot-Sample#: E1J020000-237 **Prep Batch #...:** 1275237

Mercury	102	(85 - 115)	SW846 7471A	10/02/01	ELEQ21AC
		Dilution Factor: 1			
		Analysis Time..: 13:49	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 #...: E1J010219 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J010219-001 **Prep Batch #...:** 1275230										
Aluminum										
	19700	200	25100	NC	mg/kg			SW846 6010B	10/02/01	ELEEA1AW
	19700	200	22400	NC	mg/kg			SW846 6010B	10/02/01	ELEEA1AX
			Dilution Factor: 1							
			Analysis Time..: 17:37				Instrument ID..: M01		Analyst ID.....: 021088	
			MS Run #.....: 1275100							
Arsenic										
	16.1	200	184		mg/kg	84		SW846 6010B	10/02/01	ELEEA1A0
	16.1	200	194		mg/kg	89	5.0	SW846 6010B	10/02/01	ELEEA1A1
			Dilution Factor: 1							
			Analysis Time..: 17:37				Instrument ID..: M01		Analyst ID.....: 021088	
			MS Run #.....: 1275100							
Antimony										
	ND	50.0	11.8	N	mg/kg	24		SW846 6010B	10/02/01	ELEEA1A2
	ND	50.0	11.2	N	mg/kg	22	5.8	SW846 6010B	10/02/01	ELEEA1A3
			Dilution Factor: 1							
			Analysis Time..: 17:37				Instrument ID..: M01		Analyst ID.....: 021088	
			MS Run #.....: 1275100							
Barium										
	124	200	333		mg/kg	105		SW846 6010B	10/02/01	ELEEA1A4
	124	200	326		mg/kg	101	2.2	SW846 6010B	10/02/01	ELEEA1A5
			Dilution Factor: 1							
			Analysis Time..: 17:37				Instrument ID..: M01		Analyst ID.....: 021088	
			MS Run #.....: 1275100							
Cadmium										
	ND	5.00	4.21		mg/kg	84		SW846 6010B	10/02/01	ELEEA1A6
	ND	5.00	4.36		mg/kg	87	3.6	SW846 6010B	10/02/01	ELEEA1A7
			Dilution Factor: 1							
			Analysis Time..: 17:37				Instrument ID..: M01		Analyst ID.....: 021088	
			MS Run #.....: 1275100							
Chromium										
	23.3	20.0	47.6	N	mg/kg	121		SW846 6010B	10/02/01	ELEEA1A8
	23.3	20.0	45.8		mg/kg	112	4.0	SW846 6010B	10/02/01	ELEEA1A9
			Dilution Factor: 1							
			Analysis Time..: 17:37				Instrument ID..: M01		Analyst ID.....: 021088	
			MS Run #.....: 1275100							

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.60	5.00	5.57	mg/kg	99		SW846 6010B	10/02/01	ELEEA1CA
	0.60	5.00	5.50	mg/kg	98	1.3	SW846 6010B	10/02/01	ELEEA1CC
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					
Lead									
	5.9	50.0	51.5	mg/kg	91		SW846 6010B	10/02/01	ELEEA1CD
	5.9	50.0	52.0	mg/kg	92	0.95	SW846 6010B	10/02/01	ELEEA1CE
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					
Selenium									
	0.52	200	175	mg/kg	87		SW846 6010B	10/02/01	ELEEA1CF
	0.52	200	173	mg/kg	86	0.80	SW846 6010B	10/02/01	ELEEA1CG
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					
Silver									
	ND	5.00	4.41	mg/kg	88		SW846 6010B	10/02/01	ELEEA1CH
	ND	5.00	4.45	mg/kg	89	0.90	SW846 6010B	10/02/01	ELEEA1CJ
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					
Cobalt									
	9.7	50.0	58.6	mg/kg	98		SW846 6010B	10/02/01	ELEEA1CK
	9.7	50.0	58.2	mg/kg	97	0.68	SW846 6010B	10/02/01	ELEEA1CL
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					
Copper									
	19.1	25.0	45.3	mg/kg	105		SW846 6010B	10/02/01	ELEEA1CM
	19.1	25.0	45.7	mg/kg	107	0.85	SW846 6010B	10/02/01	ELEEA1CN
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	0.60	100	84.0	mg/kg	83		SW846 6010B	10/02/01	ELEEA1CP
	0.60	100	86.6	mg/kg	86	3.0	SW846 6010B	10/02/01	ELEEA1CQ
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					
Nickel									
	15.2	50.0	67.1	mg/kg	104		SW846 6010B	10/02/01	ELEEA1CR
	15.2	50.0	66.2	mg/kg	102	1.4	SW846 6010B	10/02/01	ELEEA1CT
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					
Thallium									
	1.0	200	185	mg/kg	92		SW846 6010B	10/02/01	ELEEA1CU
	1.0	200	185	mg/kg	92	0.17	SW846 6010B	10/02/01	ELEEA1CV
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					
Vanadium									
	47.7	50.0	101	mg/kg	108		SW846 6010B	10/02/01	ELEEA1CW
	47.7	50.0	101	mg/kg	106	0.56	SW846 6010B	10/02/01	ELEEA1CX
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					
Zinc									
	58.8	50.0	112	mg/kg	106		SW846 6010B	10/02/01	ELEEA1C0
	58.8	50.0	115	mg/kg	112	2.9	SW846 6010B	10/02/01	ELEEA1C1
				Dilution Factor: 1					
				Analysis Time..: 17:37		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275100					

MS Lot-Sample #: E1J010219-001 **Prep Batch #...:** 1275237

Mercury									
	0.029	0.167	0.200	mg/kg	103		SW846 7471A	10/02/01	ELEEA1C2
	0.029	0.167	0.197	mg/kg	101	1.7	SW846 7471A	10/02/01	ELEEA1C3
				Dilution Factor: 1					
				Analysis Time..: 13:56		Instrument ID..: M04		Analyst ID.....: 000023	
				MS Run #.....: 1275103					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J010219-001 **Prep Batch #...:** 1275230							
Aluminum	NC	(70 - 115)			SW846 6010B	10/02/01	ELEEA1AW
	NC	(70 - 115)		(0-25)	SW846 6010B	10/02/01	ELEEA1AX
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Arsenic	84	(75 - 115)			SW846 6010B	10/02/01	ELEEA1A0
	89	(75 - 115)	5.0	(0-25)	SW846 6010B	10/02/01	ELEEA1A1
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Antimony	24 N	(75 - 115)			SW846 6010B	10/02/01	ELEEA1A2
	22 N	(75 - 115)	5.8	(0-25)	SW846 6010B	10/02/01	ELEEA1A3
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Barium	105	(80 - 120)			SW846 6010B	10/02/01	ELEEA1A4
	101	(80 - 120)	2.2	(0-25)	SW846 6010B	10/02/01	ELEEA1A5
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Cadmium	84	(80 - 120)			SW846 6010B	10/02/01	ELEEA1A6
	87	(80 - 120)	3.6	(0-25)	SW846 6010B	10/02/01	ELEEA1A7
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Chromium	121 N	(85 - 120)			SW846 6010B	10/02/01	ELEEA1A8
	112	(85 - 120)	4.0	(0-25)	SW846 6010B	10/02/01	ELEEA1A9
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Beryllium	99	(80 - 120)			SW846 6010B	10/02/01	ELEEA1CA
	98	(80 - 120)	1.3	(0-25)	SW846 6010B	10/02/01	ELEEA1CC
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	91	(80 - 120)			SW846 6010B	10/02/01	ELEEA1CD
	92	(80 - 120)	0.95	(0-25)	SW846 6010B	10/02/01	ELEEA1CE
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Selenium	87	(70 - 115)			SW846 6010B	10/02/01	ELEEA1CF
	86	(70 - 115)	0.80	(0-25)	SW846 6010B	10/02/01	ELEEA1CG
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Silver	88	(80 - 120)			SW846 6010B	10/02/01	ELEEA1CH
	89	(80 - 120)	0.90	(0-25)	SW846 6010B	10/02/01	ELEEA1CJ
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Cobalt	98	(80 - 120)			SW846 6010B	10/02/01	ELEEA1CK
	97	(80 - 120)	0.68	(0-25)	SW846 6010B	10/02/01	ELEEA1CL
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Copper	105	(80 - 120)			SW846 6010B	10/02/01	ELEEA1CM
	107	(80 - 120)	0.85	(0-25)	SW846 6010B	10/02/01	ELEEA1CN
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Molybdenum	83	(80 - 120)			SW846 6010B	10/02/01	ELEEA1CP
	86	(80 - 120)	3.0	(0-25)	SW846 6010B	10/02/01	ELEEA1CQ
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					
Nickel	104	(80 - 120)			SW846 6010B	10/02/01	ELEEA1CR
	102	(80 - 120)	1.4	(0-25)	SW846 6010B	10/02/01	ELEEA1CT
		Dilution Factor: 1					
		Analysis Time..: 17:37			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275100					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J010219 **Matrix.....:** SOLID
Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	92	(75 - 125)			SW846 6010B	10/02/01	ELEEA1CU
	92	(75 - 125)	0.17	(0-25)	SW846 6010B	10/02/01	ELEEA1CV

Dilution Factor: 1
Analysis Time..: 17:37 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1275100

Vanadium	108	(80 - 120)			SW846 6010B	10/02/01	ELEEA1CW
	106	(80 - 120)	0.56	(0-25)	SW846 6010B	10/02/01	ELEEA1CX

Dilution Factor: 1
Analysis Time..: 17:37 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1275100

Zinc	106	(80 - 120)			SW846 6010B	10/02/01	ELEEA1C0
	112	(80 - 120)	2.9	(0-25)	SW846 6010B	10/02/01	ELEEA1C1

Dilution Factor: 1
Analysis Time..: 17:37 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1275100

MS Lot-Sample #: E1J010219-001 **Prep Batch #...:** 1275237

Mercury	103	(80 - 120)			SW846 7471A	10/02/01	ELEEA1C2
	101	(80 - 120)	1.7	(0-20)	SW846 7471A	10/02/01	ELEEA1C3

Dilution Factor: 1
Analysis Time..: 13:56 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 1275103

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: E1J010219 **Work Order #...:** ELEEA-SMP ELEEA-DUP **Matrix.....:** SOLID

Date Sampled...: 10/01/01 15:00 **Date Received..:** 10/01/01 17:00

% Moisture.....: 22 **Dilution Factor:** **Initial Wgt/Vol:**

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	E1J010219-001	
	22.1	20.2	%	9.0	(0-0.0)	MCAWW 160.3 MOD	10/02-10/03/01	1275385

Dilution Factor: 1 Analysis Time..: 11:00 Analyst ID.....: 000022

Instrument ID..: W15 MS Run Number..: 1275209

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

October 15, 2001

STL LOT NUMBER: E1J060154
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 additional analytical results for the sample requested on October 6, 2001. This sample is associated with 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. The Aquatic Toxicity test was performed by Aquatic Testing Laboratories. See attached report regarding any related anomaly.

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

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

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

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

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0180587

SEVERN TRENT SERVICES

CHANGE ORDER

Lab Analysis No.	EI7060154
Client Name	Haley & Aldrich
Contact	Rich Larson

- [ ] CANCEL Work
- [x] ADD Work
- [ ] Chain of Custody Discrepancy
- [ ] TAT Change
- [ ] Matrix
- [ ] Sample Problem
- [ ] Tests Not Defined
- [ ] Other

EIJ010219-~~19~~ 20

EXPLANATION/RESOLUTION

SP19 ~~R~~ & R FISH TOX

10/9 add STLC arsenic

Initiated By: [illegible]

Date/Time: 10/5/01

Received By: _____

Date/Time: _____

Distribution: 000002

Original - Sample Control/Job Folder; Yellow - Lab; Pink - Initiator

ENS-3008

SEVERN
TRENT
SERVICES

Analytical Report

000003

EXECUTIVE SUMMARY - Detection Highlights

E1J060154

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_19_R 10/01/01 15:00 001				
Arsenic	0.40 B	1.0	mg/L	SW846 6010B

METHODS SUMMARY

E1J060154

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 CAM TITLE

References:

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

SAMPLE SUMMARY

E1J060154

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
ELP36	001	SP_19_R	10/01/01	15:00

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: SP_19_R

STLC Metals

Lot-Sample #...: E1J060154-001 Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00
Leach Date.....: 10/10/01 Leach Batch #..: P128315

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1285360						
Arsenic	0.40 B	1.0	mg/L	SW846 6010B	10/12-10/15/01	ELP361AC
		Dilution Factor: 1		Analysis Time..: 11:43	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1285195	MDL.....: 0.0040	

NOTE(S):

Soluable Threshold Limit Concentration (STLC) done in accordance with App II: Waste Extraction procedures. CCR Title 22.

B Estimated result. Result is less than RL.

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TRENT
SERVICES

QA/QC

000008

QC DATA ASSOCIATION SUMMARY

E1J060154

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 6010B	P128315	1285360	1285195

METHOD BLANK REPORT

STLC Metals

Client Lot #...: E1J060154 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1J120000-360 Prep Batch #...: 1285360						
Arsenic	ND	1.0	mg/L	SW846 6010B	10/12-10/15/01	EL4A71AA
		Dilution Factor: 1				
		Analysis Time..: 10:53		Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

STLC Metals

Client Lot #...: E1J060154 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1J120000-360 Prep Batch #...: 1285360							
Arsenic	20.0	21.4	mg/L	107	SW846 6010B	10/12-10/15/01	EL4A71AC

Dilution Factor: 10

Analysis Time..: 11:01 Analyst ID.....: 021088 Instrument ID..: M01

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

STLC Metals

Client Lot #...: E1J060154 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#:	E1J120000-360	Prep Batch #...: 1285360			
Arsenic	107	(80 - 120)	SW846 6010B	10/12-10/15/01	EL4A71AC

Dilution Factor: 10

Analysis Time..: 11:01 Analyst ID.....: 021088 Instrument ID..: M01

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

STLC Metals

Client Lot #...: E1J060154 Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J060154-001 Prep Batch #...: 1285360									
Leach Date.....: 10/10/01 Leach Batch #..: P128315									
Arsenic									
	0.40	20.0	22.0	mg/L	108		SW846 6010B	10/12-10/15/01	ELP361AD
	0.40	20.0	22.1	mg/L	109	0.42	SW846 6010B	10/12-10/15/01	ELP361AE

Dilution Factor: 10
Analysis Time..: 12:14 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1285195

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

STLC Metals

Client Lot #...: E1J060154 Matrix.....: SOLID
Date Sampled...: 10/01/01 15:00 Date Received..: 10/01/01 17:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J060154-001 Prep Batch #...: 1285360							
Leach Date.....: 10/10/01 Leach Batch #..: P128315							
Arsenic	108	(80 - 120)			SW846 6010B	10/12-10/15/01	ELP361AD
	109	(80 - 120)	0.42	(0-20)	SW846 6010B	10/12-10/15/01	ELP361AE

Dilution Factor: 10
Analysis Time..: 12:14 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1285195

NOTE(S):

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

SEVERN
TRENT
SERVICES

Subcontract Reports

000015

LABORATORY REPORT

Aquatic Testing Laboratories

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756

CA DOHS ELAP Cert. No.: 1775

Date: October 14, 2001

Client: STL - LA
1721 S. Grand Ave.
Santa Ana, CA 92705
Attn: Diane Suzuki

Laboratory No.: A-01100902-001
Project No.: E1J060154-001

Sample Control: The samples were received by ATL in a chilled state, seals intact and the chain of custody record attached.

Date Sampled: 10/01/01
Date Received: 10/09/01
Dates Tested: 10/09/01 to 10/14/01

Sample Analysis: The following analyses were performed on your sample:

Fathead Minnow Hazardous Waste Screen Bioassay (Polisini and Miller 1988).

Attached are the test data generated from the analysis of your samples.

Result Summary:

ATL Lab No.	STL ID.	Results
A-01100902-001	E1J060154-001	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

000016

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of the Laboratory's name for advertising or publicity purpose without authorization is prohibited.

FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY

Lab No.: A0110902-001

Client/ID: STL EIJ060154-001

TEST SUMMARY

Species: Pimephales promelas.
Fish length (mm): av: 24; min: 22; max: 26.
Fish weight (gm): av: .24; min: .20; max: .30.
Test Protocol: Calif. F&G/DOHS 1988.
Test type: Static.
Test chamber volume 10 l.
Mixing method: Mechanical shaking.
Acclimation/dilution water: Reconstituted soft water.
Aeration: Single bubble through narrow-bore tube.

Source: In-lab culture.
Date fish received: N/A.
Regulations: CCR Title 22.
Endpoints: LC50 at 96 hrs.
Temperature: 20 +/- 2°C.
Number of replicates: 2.
Number of fish per chamber: 10.
Water hardness: 40-48 mg/l $CaCO_3$.
QA/QC Batch No.: RT011004.

TEST DATA

	INITIAL			24 Hr				48 Hr				72 Hr				96 Hr			
DATE/TIME:	10-10-01 1000			10-11-01 1000				10-12-01 1030				10-13-01 1000				10-14-01 0930			
ANALYST:	[illegible]			[illegible]				[illegible]				[illegible]				[illegible]			
	°C	DO	pH	°C	DO	pH	#D	°C	DO	pH	#D	°C	DO	pH	#D	°C	DO	pH	#D
CONTROL A	19.6	8.2	7.8	20.2	7.9	7.8	0	20.2	7.8	7.7	0	20.3	7.6	7.8	0	20.9	7.5	7.7	0
CONTROL B	19.8	8.3	7.8	20.2	7.9	7.7	0	20.2	7.5	7.7	0	20.3	7.5	7.6	0	20.0	7.6	7.7	0
400 mg/l A	19.8	8.3	7.8	20.2	7.6	7.6	0	20.2	7.2	7.5	0	20.3	7.0	7.4	0	20.1	7.1	7.6	0
400 mg/l B	19.8	8.4	7.8	20.2	7.9	7.5	0	20.2	7.5	7.5	0	20.1	7.4	7.4	2	20.0	7.4	7.6	0
750 mg/l A	19.8	8.4	7.8	20.1	7.6	7.5	0	20.1	6.8	7.4	0	20.2	8.2	7.5	1	20.0	7.5	7.5	0
750 mg/l B	19.7	8.5	7.8	20.1	8.2	7.5	0	20.0	8.0	7.4	0	20.1	7.9	7.5	1	20.1	7.5	7.6	0

Comments:

	CONTROL		HIGH CONCENTRATION	
	Alkalin.	Hardness	Alkalin.	Hardness
Initial	26 mg/l	40 mg/l	26 mg/l	40 mg/l
Final	30 mg/l	44 mg/l	30 mg/l	48 mg/l

Total Number Dead	
CONTROL	0 /20
400 mg/l	2 /20
750 mg/l	2 /20

RESULTS

X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
NA	FAILED	≥40% dead in 750 (Definitive Test Recommended)
NA	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: D7 Aquatic Testing Laboratories
AQUATIC TESTING LABORATORIES
4350 TRANSPORT STREET, UNIT 107
VENTURA, CA 93003

NEED ANALYTICAL REPORT BY
10/11/01

ATTN: JOSEPH A. LEMAY, LAB DIRECTOR

LAB PURCHASE ORDER: SR033985

CLIENT CODE: 458986 PROJECT MANAGER: Diane Suzuki

NUMBER OF SAMPLES IN LOT: 0001

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
E1J060154-001	10/01/01	Archive
ELP36-1-AA		(ARCHIVE) METHOD: NONE

Fish Toxicity

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: COURIER DATE: 10/08/01

SEND REPORT TO: DIANE SUZUKI

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

STL Los Angeles
INT: _____ 10/08/01 14:27:08
Aquatic Testing Laboratories
AQUATIC TESTING LABORATORIES
4350 TRANSPORT STREET, UNIT 107

RELINQUISHED BY: [signature] DATE/TIME: 10/08/01 15:00

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: [signature] DATE/TIME: 10-9-01 10:45

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

[redacted]

Chain of Custody Record

To: Aquatic Testing Labs

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: STL Los Angeles	Project Manager: Deanne Smith	Date: 10/06/01	Chain of Custody Number: 049336
Address: 1721 S Grand Ave	Telephone Number (Area Code)/Fax Number: (714) 258 8610 Ext 309	Lab Number: EL7060154	Page 1 of 1
City: Santa Ana; State: CA; Zip Code: 92707	Site Contact:	Lab Contact:	
Project Name and Location (State):	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): Fish Toxicity	Special Instructions/ Conditions of Receipt
SP_19_R	10/01/01	15:00				X		1							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 _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	10/06/01	15:00	1. Received By: [signature] ATL	10-5-01	1045
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

000019

BOE-C6-0180605

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

September 24, 2001

STL LOT NUMBER: E1I180303
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 September 18, 2001. 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. The PAHs by 8310 analysis was performed by Del Mar Analytical. See attached report for any related anomaly.

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

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

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

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

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0180606

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: S. ZACHARY	Date: 9/18/01	Chain of Custody Number: 049980
Address: 9040 FRIARS Rd. STE 220	Telephone Number (Area Code)/Fax Number: 619.280.9210	Lab Number:	Page 1 of 1
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact: R. Farson	Lab Contact: D. SUZUKI	
Project Name and Location (State): BOEING C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8260B VOCs	8270 SVOCs	8310 PAH	8015M TPH	6010 METALS	Special Instructions/ Conditions of Receipt
SP-20-1	9/18/01	12:15				X							X	X	X	X	X	48-Hour TAT

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

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

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

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	9/18/01	13:15	1. Received By	9-18-01	1315
2. Relinquished By	9/18/01	1585	2. Received By	9/18/01	15-40
3. Relinquished By			3. Received By		

Comments

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

000002

BOE-C6-0180607

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 9/18/01

Quantims Lot #: EI I 180303
Client Name: Haley & Aldrich
Received by: MLT
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☒In-House Courier ☐Rey B. ☐UPS ☐DES ☐Other

Quote #: 42295
Project: Boeing C-6
Date/Time Received: 9/18/01 15:40

****

	Initial / Date
Custody Seal Status: ☐Intact ☐Broken ☒None	MLT 9/18/01
Custody Seal #(s): ☐No Seal #	
Sample Container(s): ☒STL-LA ☐Client ☐N/A	
Temperature(s) (COOLER/BLANK) in °C: 4.5°C (CORRECTED TEMP) 4.7°C	
Thermometer Used : ☒IR (Infra-red) ☐Digital (Probe)	
Samples: ☒Intact ☐Broken ☐Other	
Anomalies: ☒No ☐Yes (See Clouseau)	
Labeled by AR	
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 Del Mar

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

Fraction	1										PH
VOAh /*											N/A
Sleeve	1										

h:HCl na:Sodium Hydoxide zana: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: Pacolth 9/18/01 REVIEWED BY/DATE:

EXECUTIVE SUMMARY - Detection Highlights

E1I180303

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_20_1 09/18/01 12:15 001				
Mercury	0.022 B	0.10	mg/kg	SW846 7471A
Aluminum	16300	20.0	mg/kg	SW846 6010B
Arsenic	5.2	1.0	mg/kg	SW846 6010B
Antimony	1.1 B	6.0	mg/kg	SW846 6010B
Barium	94.5	2.0	mg/kg	SW846 6010B
Chromium	23.1	1.0	mg/kg	SW846 6010B
Beryllium	0.50	0.50	mg/kg	SW846 6010B
Lead	4.1	0.50	mg/kg	SW846 6010B
Cobalt	8.6	5.0	mg/kg	SW846 6010B
Copper	19.7	2.5	mg/kg	SW846 6010B
Molybdenum	0.52 B	4.0	mg/kg	SW846 6010B
Nickel	16.2	4.0	mg/kg	SW846 6010B
Thallium	1.1	1.0	mg/kg	SW846 6010B
Vanadium	42.8	5.0	mg/kg	SW846 6010B
Zinc	48.4	2.0	mg/kg	SW846 6010B
Methylene chloride	46	5.0	ug/kg	SW846 8260B

METHODS SUMMARY

E1I180303

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
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
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

E1I180303

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EKM99	001	SP_20_1	09/18/01	12:15

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: SP_20_1

GC Semivolatiles

Lot-Sample #...:	E1I180303-001	**Work Order #...:**	EKM991AA	**Matrix.....:**	SOLID
Date Sampled...:	09/18/01 12:15	**Date Received..:**	09/18/01 15:40	**MS Run #.....:**	1262099
Prep Date.....:	09/18/01	**Analysis Date..:**	09/19/01		
Prep Batch #...:	1262234	**Analysis Time..:**	13:13		
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	92	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_20_1

GC Volatiles

Lot-Sample #...:	E1I180303-001	**Work Order #...:**	EKM991AC	**Matrix.....:**	SOLID
Date Sampled...:	09/18/01 12:15	**Date Received..:**	09/18/01 15:40	**MS Run #.....:**	1262196
Prep Date.....:	09/19/01	**Analysis Date..:**	09/19/01		
Prep Batch #...:	1262369	**Analysis Time..:**	11:15		
Dilution Factor:	1				
Analyst ID.....:	001464	**Instrument ID..:**	G15		
		Method.....:	SW846 8015B		

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

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

HALEY & ALDRICH INC

Client Sample ID: SP_20_1

GC/MS Volatiles

Lot-Sample #...:	E1I180303-001	**Work Order #...:**	EKM991AD	**Matrix.....:**	SOLID
Date Sampled...:	09/18/01 12:15	**Date Received..:**	09/18/01 15:40	**MS Run #.....:**	1263292
Prep Date.....:	09/20/01	**Analysis Date..:**	09/20/01		
Prep Batch #...:	1263591	**Analysis Time..:**	12:27		
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	2.0
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	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	**46**	**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	10
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: SP_20_1

GC/MS Volatiles

Lot-Sample #...: E1I180303-001 **Work Order #...:** EKM991AD **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	5.0
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	95	(70 - 130)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	97	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_20_1

GC/MS Semivolatiles

Lot-Sample #...: E1I180303-001 **Work Order #...:** EKM991AE **Matrix.....:** SOLID
Date Sampled...: 09/18/01 12:15 **Date Received..:** 09/18/01 15:40 **MS Run #.....:** 1262123
Prep Date.....: 09/19/01 **Analysis Date..:** 09/19/01
Prep Batch #...: 1262266 **Analysis Time..:** 17:40
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSE
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	330	ug/kg	100
Acenaphthylene	ND	330	ug/kg	100
Anthracene	ND	330	ug/kg	80
Benzo(a)anthracene	ND	330	ug/kg	100
Benzo(b)fluoranthene	ND	330	ug/kg	100
Benzo(k)fluoranthene	ND	330	ug/kg	200
Benzo(ghi)perylene	ND	330	ug/kg	150
Benzo(a)pyrene	ND	330	ug/kg	70
Benzoic acid	ND	1600	ug/kg	500
Benzyl alcohol	ND	330	ug/kg	100
bis(2-Chloroethoxy) methane	ND	330	ug/kg	100
bis(2-Chloroethyl)-ether	ND	330	ug/kg	100
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	110
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	200
4-Bromophenyl phenyl ether	ND	330	ug/kg	80
Butyl benzyl phthalate	ND	330	ug/kg	100
Carbazole	ND	330	ug/kg	80
4-Chloroaniline	ND	330	ug/kg	150
4-Chloro-3-methylphenol	ND	330	ug/kg	100
2-Chloronaphthalene	ND	330	ug/kg	100
2-Chlorophenol	ND	330	ug/kg	150
4-Chlorophenyl phenyl ether	ND	330	ug/kg	90
Chrysene	ND	330	ug/kg	100
Dibenz(a,h)anthracene	ND	330	ug/kg	100
Dibenzofuran	ND	330	ug/kg	90
Di-n-butyl phthalate	ND	330	ug/kg	100
1,2-Dichlorobenzene	ND	330	ug/kg	130
1,3-Dichlorobenzene	ND	330	ug/kg	130
1,4-Dichlorobenzene	ND	330	ug/kg	130
3,3'-Dichlorobenzidine	ND	1600	ug/kg	400
2,4-Dichlorophenol	ND	330	ug/kg	90

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HALEY & ALDRICH INC

Client Sample ID: SP_20_1

GC/MS Semivolatiles

Lot-Sample #...: E1I180303-001 **Work Order #...:** EKM991AE **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	330	ug/kg	100
2,4-Dimethylphenol	ND	330	ug/kg	100
Dimethyl phthalate	ND	330	ug/kg	80
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	300
2,4-Dinitrophenol	ND	1600	ug/kg	500
2,4-Dinitrotoluene	ND	330	ug/kg	100
2,6-Dinitrotoluene	ND	330	ug/kg	90
Di-n-octyl phthalate	ND	330	ug/kg	110
Fluoranthene	ND	330	ug/kg	70
Fluorene	ND	330	ug/kg	90
Hexachlorobenzene	ND	330	ug/kg	80
Hexachlorobutadiene	ND	330	ug/kg	100
Hexachlorocyclopentadiene	ND	1600	ug/kg	370
Hexachloroethane	ND	330	ug/kg	130
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	100
Isophorone	ND	330	ug/kg	100
2-Methylnaphthalene	ND	330	ug/kg	90
2-Methylphenol	ND	330	ug/kg	80
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	100
Naphthalene	ND	330	ug/kg	90
2-Nitroaniline	ND	1600	ug/kg	300
3-Nitroaniline	ND	1600	ug/kg	350
4-Nitroaniline	ND	1600	ug/kg	200
Nitrobenzene	ND	330	ug/kg	150
2-Nitrophenol	ND	330	ug/kg	100
4-Nitrophenol	ND	1600	ug/kg	400
N-Nitrosodiphenylamine	ND	330	ug/kg	80
N-Nitrosodi-n-propylamine	ND	330	ug/kg	90
Pentachlorophenol	ND	1600	ug/kg	420
Phenanthrene	ND	330	ug/kg	80
Phenol	ND	330	ug/kg	100
Pyrene	ND	330	ug/kg	120
1,2,4-Trichlorobenzene	ND	330	ug/kg	100
2,4,5-Trichlorophenol	ND	330	ug/kg	100
2,4,6-Trichlorophenol	ND	330	ug/kg	70

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HALEY & ALDRICH INC

Client Sample ID: SP_20_1

GC/MS Semivolatiles

Lot-Sample #...: E1I180303-001 **Work Order #...:** EKM991AE **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	61	(40 - 130)
2-Fluorophenol	56	(50 - 115)
2,4,6-Tribromophenol	60	(30 - 115)
Nitrobenzene-d5	61	(45 - 115)
Phenol-d5	60	(50 - 120)
Terphenyl-d14	72	(50 - 140)

HALEY & ALDRICH INC

Client Sample ID: SP_20_1

TOTAL Metals

Lot-Sample #...: E1I180303-001 Matrix.....: SOLID
Date Sampled...: 09/18/01 12:15 Date Received..: 09/18/01 15:40

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1261228						
Mercury	**0.022 B**	**0.10**	**mg/kg**	**SW846 7471A**	**09/18-09/19/01**	**EKM991A2**
		Dilution Factor: 1		Analysis Time..: 10:00	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 1261128	MDL.....: 0.020	
Prep Batch #...: 1261474						
Aluminum	**16300**	**20.0**	**mg/kg**	**SW846 6010B**	**09/18-09/19/01**	**EKM991AG**
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 8.0	
Arsenic	**5.2**	**1.0**	**mg/kg**	**SW846 6010B**	**09/18-09/19/01**	**EKM991AH**
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.40	
Antimony	**1.1 B**	**6.0**	**mg/kg**	**SW846 6010B**	**09/18-09/19/01**	**EKM991AJ**
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.60	
Barium	**94.5**	**2.0**	**mg/kg**	**SW846 6010B**	**09/18-09/19/01**	**EKM991AK**
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/18-09/19/01	EKM991AL
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.060	
Chromium	**23.1**	**1.0**	**mg/kg**	**SW846 6010B**	**09/18-09/19/01**	**EKM991AM**
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.10	
Beryllium	**0.50**	**0.50**	**mg/kg**	**SW846 6010B**	**09/18-09/19/01**	**EKM991AN**
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.050	
Lead	**4.1**	**0.50**	**mg/kg**	**SW846 6010B**	**09/18-09/19/01**	**EKM991AP**
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	09/18-09/19/01	EKM991AQ
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SP_20_1

TOTAL Metals

Lot-Sample #...: E1I180303-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	09/18-09/19/01	EKM991AR
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.10	
Cobalt	8.6	5.0	mg/kg	SW846 6010B	09/18-09/19/01	EKM991AT
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.10	
Copper	19.7	2.5	mg/kg	SW846 6010B	09/18-09/19/01	EKM991AU
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.40	
Molybdenum	0.52 B	4.0	mg/kg	SW846 6010B	09/18-09/19/01	EKM991AV
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.30	
Nickel	16.2	4.0	mg/kg	SW846 6010B	09/18-09/19/01	EKM991AW
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.30	
Thallium	1.1	1.0	mg/kg	SW846 6010B	09/18-09/19/01	EKM991AX
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.80	
Vanadium	42.8	5.0	mg/kg	SW846 6010B	09/18-09/19/01	EKM991A0
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 0.10	
Zinc	48.4	2.0	mg/kg	SW846 6010B	09/18-09/19/01	EKM991A1
		Dilution Factor: 1		Analysis Time..: 16:12	Analyst ID.....: 0210884	
		Instrument ID..: M01		MS Run #.....: 1261264	MDL.....: 1.0	

NOTE(S):

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E1I180303

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		1262234	1262099
	SOLID	SW846 8015B		1262369	1262196
	SOLID	SW846 7471A		1261228	1261128
	SOLID	SW846 8260B		1263591	1263292
	SOLID	SW846 8270C		1262266	1262123
	SOLID	SW846 6010B		1261474	1261264

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1I180303
MB Lot-Sample #: E1I190000-234

Work Order #...: EKN031AA

Matrix.....: SOLID

Prep Date.....: 09/18/01

Analysis Time..: 11:55

Analysis Date..: 09/19/01

Prep Batch #...: 1262234

Instrument ID..: G02

Dilution Factor: 1

Analyst ID.....: 356074

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	91	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1I180303
MB Lot-Sample #: E1I190000-266

Analysis Date..: 09/19/01
Dilution Factor: 1

Work Order #...: EKN9R1AA

Prep Date.....: 09/19/01
Prep Batch #...: 1262266

Analyst ID.....: 004648

Matrix.....: SOLID

Analysis Time..: 16:33
Instrument ID..: MSE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1I180303 **Work Order #...:** EKN9R1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	75	(40 - 130)
2-Fluorophenol	68	(50 - 115)
2,4,6-Tribromophenol	72	(30 - 115)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1I180303 **Work Order #...:** EKN9R1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene-d5	75	(45 - 115)		
Phenol-d5	71	(50 - 120)		
Terphenyl-d14	74	(50 - 140)		

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1I180303
MB Lot-Sample #: E1I190000-369

Analysis Date..: 09/19/01
Dilution Factor: 1

Work Order #...: EKPXN1AA

Prep Date.....: 09/19/01
Prep Batch #...: 1262369

Analyst ID.....: 001464

Matrix.....: SOLID

Analysis Time..: 10:22
Instrument ID..: G15

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)	85	(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 #...: E1I180303
MB Lot-Sample #: E1I200000-591

Analysis Date..: 09/20/01
Dilution Factor: 1

Work Order #...: EKT5R1AA

Prep Date.....: 09/20/01
Prep Batch #...: 1263591

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 11:56
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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1I180303 **Work Order #...:** EKT5R1AA **Matrix.....:** SOLID

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(70 - 130)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	98	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1I180000-228 **Prep Batch #...:** 1261228						
Mercury	ND	0.10	mg/kg	SW846 7471A	09/18-09/19/01	EKL2P1AA
		Dilution Factor: 1				
		Analysis Time..: 09:51		Analyst ID.....: 000023	Instrument ID..: M04	
MB Lot-Sample #: E1I180000-474 **Prep Batch #...:** 1261474						
Aluminum	ND	20.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AA
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AC
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AD
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AE
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AF
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AG
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AH
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AJ
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AK
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AL
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AM
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	ND	2.5	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AN
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AP
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AQ
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AR
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AT
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	09/18-09/19/01	EKNA91AU
		Dilution Factor: 1				
		Analysis Time..: 17:59		Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1I180303 **Work Order #...:** EKN031AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I190000-234
Prep Date.....: 09/18/01 **Analysis Date..:** 09/19/01
Prep Batch #...: 1262234 **Analysis Time..:** 12:34
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**210**	**mg/kg**	**84**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	81	(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 Semivolatiles

Client Lot #...: E1I180303 Work Order #...: EKN9R1AC Matrix.....: SOLID
LCS Lot-Sample#: E1I190000-266
Prep Date.....: 09/19/01 Analysis Date..: 09/19/01
Prep Batch #...: 1262266 Analysis Time..: 17:06
Dilution Factor: 1 Instrument ID..: MSE
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**3330**	**2390**	**ug/kg**	**72**	**SW846 8270C**
4-Chloro-3-methylphenol	**5000**	**3540**	**ug/kg**	**71**	**SW846 8270C**
2-Chlorophenol	**5000**	**3430**	**ug/kg**	**69**	**SW846 8270C**
1,4-Dichlorobenzene	**3330**	**2230**	**ug/kg**	**67**	**SW846 8270C**
2,4-Dinitrotoluene	**3330**	**2860**	**ug/kg**	**86**	**SW846 8270C**
4-Nitrophenol	**5000**	**3070**	**ug/kg**	**61**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**3330**	**2580**	**ug/kg**	**77**	**SW846 8270C**
Pentachlorophenol	**5000**	**4040**	**ug/kg**	**81**	**SW846 8270C**
Phenol	**5000**	**2800**	**ug/kg**	**56**	**SW846 8270C**
Pyrene	**3330**	**2450**	**ug/kg**	**73**	**SW846 8270C**
1,2,4-Trichloro-benzene	**3330**	**2770**	**ug/kg**	**83**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	74	(40 - 130)
2-Fluorophenol	66	(50 - 115)
2,4,6-Tribromophenol	68	(30 - 115)
Nitrobenzene-d5	76	(45 - 115)
Phenol-d5	65	(50 - 120)
Terphenyl-d14	71	(50 - 140)

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 #...: E1I180303 **Work Order #...:** EKPXN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I190000-369
Prep Date.....: 09/19/01 **Analysis Date..:** 09/19/01
Prep Batch #...: 1262369 **Analysis Time..:** 10:48
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**6.35**	**mg/kg**	**127**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	115	(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 #...: E1I180303 **Work Order #...:** EKT5R1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I200000-591
Prep Date.....: 09/20/01 **Analysis Date..:** 09/20/01
Prep Batch #...: 1263591 **Analysis Time..:** 11:26
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**56.8**	**ug/kg**	**114**	**SW846 8260B**
Benzene	**50.0**	**55.0**	**ug/kg**	**110**	**SW846 8260B**
Trichloroethene	**50.0**	**58.0**	**ug/kg**	**116**	**SW846 8260B**
Toluene	**50.0**	**49.8**	**ug/kg**	**100**	**SW846 8260B**
Chlorobenzene	**50.0**	**49.9**	**ug/kg**	**100**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(70 - 130)
1,2-Dichloroethane-d4	94	(60 - 140)
Toluene-d8	97	(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 #...: E1I180303 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1I180000-228 **Prep Batch #...:** 1261228							
Mercury	0.833	0.822	mg/kg	99	SW846 7471A	09/18-09/19/01	EKL2P1AC
			Dilution Factor: 1				
			Analysis Time..: 09:53		Analyst ID.....: 000023	Instrument ID..: M04	
LCS Lot-Sample#: E1I180000-474 **Prep Batch #...:** 1261474							
Aluminum	200	181	mg/kg	90	SW846 6010B	09/18-09/19/01	EKNA91AV
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	200	187	mg/kg	93	SW846 6010B	09/18-09/19/01	EKNA91AW
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	37.1 N	mg/kg	74	SW846 6010B	09/18-09/19/01	EKNA91AX
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	197	mg/kg	98	SW846 6010B	09/18-09/19/01	EKNA91A0
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	4.92	mg/kg	98	SW846 6010B	09/18-09/19/01	EKNA91A1
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	20.4	mg/kg	102	SW846 6010B	09/18-09/19/01	EKNA91A2
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	5.18	mg/kg	104	SW846 6010B	09/18-09/19/01	EKNA91A3
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	46.2	mg/kg	92	SW846 6010B	09/18-09/19/01	EKNA91A4
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	178	mg/kg	89	SW846 6010B	09/18-09/19/01	EKNA91A5
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	5.00	4.90	mg/kg	98	SW846 6010B	09/18-09/19/01	EKNA91A6
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	50.0	49.3	mg/kg	99	SW846 6010B	09/18-09/19/01	EKNA91A7
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	23.9	mg/kg	96	SW846 6010B	09/18-09/19/01	EKNA91A8
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	96.6	mg/kg	97	SW846 6010B	09/18-09/19/01	EKNA91A9
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	50.0	mg/kg	100	SW846 6010B	09/18-09/19/01	EKNA91CA
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	181	mg/kg	91	SW846 6010B	09/18-09/19/01	EKNA91CC
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	50.0	mg/kg	100	SW846 6010B	09/18-09/19/01	EKNA91CD
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	50.2	mg/kg	100	SW846 6010B	09/18-09/19/01	EKNA91CE
			Dilution Factor: 1				
			Analysis Time..: 16:01		Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1I180303 **Work Order #...:** EKN031AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I190000-234
Prep Date.....: 09/18/01 **Analysis Date..:** 09/19/01
Prep Batch #...: 1262234 **Analysis Time..:** 12:34
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**84**	**(60 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	81	(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 Semivolatiles

Client Lot #...: E1I180303 Work Order #...: EKN9R1AC Matrix.....: SOLID
LCS Lot-Sample#: E1I190000-266
Prep Date.....: 09/19/01 Analysis Date..: 09/19/01
Prep Batch #...: 1262266 Analysis Time..: 17:06
Dilution Factor: 1 Instrument ID..: MSE
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**72**	**(50 - 125)**	**SW846 8270C**
4-Chloro-3-methylphenol	**71**	**(50 - 110)**	**SW846 8270C**
2-Chlorophenol	**69**	**(50 - 120)**	**SW846 8270C**
1,4-Dichlorobenzene	**67**	**(40 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**86**	**(40 - 120)**	**SW846 8270C**
4-Nitrophenol	**61**	**(10 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**77**	**(40 - 120)**	**SW846 8270C**
Pentachlorophenol	**81**	**(20 - 130)**	**SW846 8270C**
Phenol	**56**	**(40 - 110)**	**SW846 8270C**
Pyrene	**73**	**(50 - 140)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**83**	**(50 - 115)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	74	(40 - 130)
2-Fluorophenol	66	(50 - 115)
2,4,6-Tribromophenol	68	(30 - 115)
Nitrobenzene-d5	76	(45 - 115)
Phenol-d5	65	(50 - 120)
Terphenyl-d14	71	(50 - 140)

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 #...: E1I180303 **Work Order #...:** EKPXN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I190000-369
Prep Date.....: 09/19/01 **Analysis Date..:** 09/19/01
Prep Batch #...: 1262369 **Analysis Time..:** 10:48
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**127**	**(80 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	115	(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 #...: E1I180303 **Work Order #...:** EKT5R1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I200000-591
Prep Date.....: 09/20/01 **Analysis Date..:** 09/20/01
Prep Batch #...: 1263591 **Analysis Time..:** 11:26
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**114**	**(60 - 150)**	**SW846 8260B**
Benzene	**110**	**(70 - 140)**	**SW846 8260B**
Trichloroethene	**116**	**(70 - 130)**	**SW846 8260B**
Toluene	**100**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**100**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(70 - 130)
1,2-Dichloroethane-d4	94	(60 - 140)
Toluene-d8	97	(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 #...: E1I180303 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1I180000-228 **Prep Batch #...:** 1261228					
Mercury	99	(85 - 115)	SW846 7471A	09/18-09/19/01	EKL2P1AC
		Dilution Factor: 1			
		Analysis Time..: 09:53	Analyst ID.....: 000023	Instrument ID..: M04	
LCS Lot-Sample#: E1I180000-474 **Prep Batch #...:** 1261474					
Aluminum	90	(70 - 115)	SW846 6010B	09/18-09/19/01	EKNA91AV
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	93	(75 - 115)	SW846 6010B	09/18-09/19/01	EKNA91AW
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	74 N	(75 - 115)	SW846 6010B	09/18-09/19/01	EKNA91AX
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Barium	98	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91A0
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	98	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91A1
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	102	(85 - 120)	SW846 6010B	09/18-09/19/01	EKNA91A2
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	104	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91A3
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Lead	92	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91A4
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	89	(70 - 115)	SW846 6010B	09/18-09/19/01	EKNA91A5
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	98	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91A6
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	99	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91A7
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Copper	96	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91A8
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	97	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91A9
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	100	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91CA
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	91	(75 - 125)	SW846 6010B	09/18-09/19/01	EKNA91CC
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	100	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91CD
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	100	(80 - 120)	SW846 6010B	09/18-09/19/01	EKNA91CE
		Dilution Factor: 1			
		Analysis Time..: 16:01	Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID
Date Sampled...: 09/14/01 13:00 **Date Received..:** 09/14/01 15:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1I170146-001 **Prep Batch #...:** 1261228									
Mercury									
	0.027	0.167	0.197	mg/kg	102		SW846 7471A	09/18-09/19/01	EKKR61A0
	0.027	0.167	0.198	mg/kg	103	0.84	SW846 7471A	09/18-09/19/01	EKKR61A1

Dilution Factor: 1
Analysis Time..: 09:56 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 1261128

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID
Date Sampled...: 09/18/01 12:15 **Date Received..:** 09/18/01 15:40

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1I180303-001 **Prep Batch #...:** 1261474									
Aluminum									
	16300	200	19300 NC	mg/kg			SW846 6010B	09/18-09/19/01	EKM991A3
	16300	200	21100 NC	mg/kg			SW846 6010B	09/18-09/19/01	EKM991A4
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						
Arsenic									
	5.2	200	203	mg/kg	99		SW846 6010B	09/18-09/19/01	EKM991A5
	5.2	200	200	mg/kg	97	1.5	SW846 6010B	09/18-09/19/01	EKM991A6
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						
Antimony									
	1.1	50.0	7.17 N	mg/kg	12		SW846 6010B	09/18-09/19/01	EKM991A7
	1.1	50.0	6.64 N	mg/kg	11	7.6	SW846 6010B	09/18-09/19/01	EKM991A8
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						
Barium									
	94.5	200	313	mg/kg	109		SW846 6010B	09/18-09/19/01	EKM991A9
	94.5	200	317	mg/kg	111	1.4	SW846 6010B	09/18-09/19/01	EKM991CA
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						
Cadmium									
	ND	5.00	4.26	mg/kg	85		SW846 6010B	09/18-09/19/01	EKM991CC
	ND	5.00	4.22	mg/kg	84	0.94	SW846 6010B	09/18-09/19/01	EKM991CD
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						
Chromium									
	23.1	20.0	47.3 N	mg/kg	121		SW846 6010B	09/18-09/19/01	EKM991CE
	23.1	20.0	46.8	mg/kg	119	1.1	SW846 6010B	09/18-09/19/01	EKM991CF
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID
Date Sampled...: 09/18/01 12:15 **Date Received..:** 09/18/01 15:40

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium										
	0.50	5.00	5.83		mg/kg	107		SW846 6010B	09/18-09/19/01	EKM991CG
	0.50	5.00	5.80		mg/kg	106	0.44	SW846 6010B	09/18-09/19/01	EKM991CH
				Dilution Factor: 1						
				Analysis Time..: 16:28			Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1261264						
Lead										
	4.1	50.0	53.8		mg/kg	99		SW846 6010B	09/18-09/19/01	EKM991CJ
	4.1	50.0	53.3		mg/kg	98	0.89	SW846 6010B	09/18-09/19/01	EKM991CK
				Dilution Factor: 1						
				Analysis Time..: 16:28			Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1261264						
Selenium										
	ND	200	192		mg/kg	96		SW846 6010B	09/18-09/19/01	EKM991CL
	ND	200	190		mg/kg	95	0.97	SW846 6010B	09/18-09/19/01	EKM991CM
				Dilution Factor: 1						
				Analysis Time..: 16:28			Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1261264						
Silver										
	ND	5.00	4.99		mg/kg	100		SW846 6010B	09/18-09/19/01	EKM991CN
	ND	5.00	4.92		mg/kg	98	1.4	SW846 6010B	09/18-09/19/01	EKM991CP
				Dilution Factor: 1						
				Analysis Time..: 16:28			Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1261264						
Cobalt										
	8.6	50.0	60.1		mg/kg	103		SW846 6010B	09/18-09/19/01	EKM991CQ
	8.6	50.0	59.7		mg/kg	102	0.64	SW846 6010B	09/18-09/19/01	EKM991CR
				Dilution Factor: 1						
				Analysis Time..: 16:28			Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1261264						
Copper										
	19.7	25.0	49.1		mg/kg	118		SW846 6010B	09/18-09/19/01	EKM991CT
	19.7	25.0	51.8	N	mg/kg	128	5.4	SW846 6010B	09/18-09/19/01	EKM991CU
				Dilution Factor: 1						
				Analysis Time..: 16:28			Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1261264						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID
Date Sampled...: 09/18/01 12:15 **Date Received..:** 09/18/01 15:40

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	0.52	100	92.7	mg/kg	92		SW846 6010B	09/18-09/19/01	EKM991CV
	0.52	100	89.9	mg/kg	89	3.0	SW846 6010B	09/18-09/19/01	EKM991CW
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						
Nickel									
	16.2	50.0	68.0	mg/kg	104		SW846 6010B	09/18-09/19/01	EKM991CX
	16.2	50.0	69.1	mg/kg	106	1.6	SW846 6010B	09/18-09/19/01	EKM991C0
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						
Thallium									
	1.1	200	200	mg/kg	99		SW846 6010B	09/18-09/19/01	EKM991C1
	1.1	200	197	mg/kg	98	1.4	SW846 6010B	09/18-09/19/01	EKM991C2
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						
Vanadium									
	42.8	50.0	98.7	mg/kg	112		SW846 6010B	09/18-09/19/01	EKM991C3
	42.8	50.0	101	mg/kg	117	2.6	SW846 6010B	09/18-09/19/01	EKM991C4
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						
Zinc									
	48.4	50.0	110 N	mg/kg	123		SW846 6010B	09/18-09/19/01	EKM991C5
	48.4	50.0	111 N	mg/kg	126	1.2	SW846 6010B	09/18-09/19/01	EKM991C6
			Dilution Factor: 1						
			Analysis Time..: 16:28		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1261264						

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E1I180303	**Work Order #...:**	EKM991C7-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I180303-001		EKM991C8-MSD		
Date Sampled...:	09/18/01 12:15	**Date Received..:**	09/18/01 15:40	**MS Run #.....:**	1262099
Prep Date.....:	09/18/01	**Analysis Date..:**	09/19/01		
Prep Batch #...:	1262234	**Analysis Time..:**	13:52		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	**ND**	**250**	**236**	**mg/kg**	**94**		**SW846 8015B**
	ND	**250**	**217**	**mg/kg**	**87**	**8.3**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	87	(60 - 130)
	81	(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 Semivolatiles

Client Lot #...:	E1I180303	Work Order #...:	EKM991C9-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1I180303-001		EKM991DA-MSD		
Date Sampled...:	09/18/01 12:15	Date Received..:	09/18/01 15:40	MS Run #.....:	1262123
Prep Date.....:	09/19/01	Analysis Date..:	09/19/01		
Prep Batch #...:	1262266	Analysis Time..:	18:14		
Dilution Factor:	1	Analyst ID.....:	004648	Instrument ID..:	MSE

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	ND	3330	2440	ug/kg	73		SW846 8270C
	ND	3330	2270	ug/kg	68	7.0	SW846 8270C
4-Chloro-3-methylphenol	ND	5000	3590	ug/kg	72		SW846 8270C
	ND	5000	3400	ug/kg	68	5.4	SW846 8270C
2-Chlorophenol	ND	5000	3580	ug/kg	72		SW846 8270C
	ND	5000	3340	ug/kg	67	6.9	SW846 8270C
1,4-Dichlorobenzene	ND	3330	2360	ug/kg	71		SW846 8270C
	ND	3330	1880	ug/kg	56	23	SW846 8270C
2,4-Dinitrotoluene	ND	3330	2960	ug/kg	89		SW846 8270C
	ND	3330	2900	ug/kg	87	2.2	SW846 8270C
4-Nitrophenol	ND	5000	3330	ug/kg	67		SW846 8270C
	ND	5000	3130	ug/kg	63	6.2	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	3330	2640	ug/kg	79		SW846 8270C
	ND	3330	2390	ug/kg	72	10	SW846 8270C
Pentachlorophenol	ND	5000	4320	ug/kg	86		SW846 8270C
	ND	5000	4040	ug/kg	81	6.6	SW846 8270C
Phenol	ND	5000	2790	ug/kg	56		SW846 8270C
	ND	5000	2630	ug/kg	53	5.8	SW846 8270C
Pyrene	ND	3330	2410	ug/kg	72		SW846 8270C
	ND	3330	2440	ug/kg	73	1.2	SW846 8270C
1,2,4-Trichloro-benzene	ND	3330	2990	ug/kg	90		SW846 8270C
	ND	3330	2600	ug/kg	78	14	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	71	(40 - 130)
	72	(40 - 130)
2-Fluorophenol	70	(50 - 115)
	66	(50 - 115)
2,4,6-Tribromophenol	73	(30 - 115)
	72	(30 - 115)
Nitrobenzene-d5	74	(45 - 115)
	74	(45 - 115)
Phenol-d5	66	(50 - 120)
	63	(50 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1I180303 **Work Order #...:** EKM991C9-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1I180303-001 EKM991DA-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	73	(50 - 140)
	72	(50 - 140)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...:	E1I180303	**Work Order #...:**	EKM991DC-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I180303-001		EKM991DD-MSD		
Date Sampled...:	09/18/01 12:15	**Date Received..:**	09/18/01 15:40	**MS Run #.....:**	1262196
Prep Date.....:	09/19/01	**Analysis Date..:**	09/19/01		
Prep Batch #...:	1262369	**Analysis Time..:**	11:42		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**ND**	**5.00**	**6.06**	**mg/kg**	**121**		**SW846 8015B**
	ND	**5.00**	**6.20**	**mg/kg**	**124**	**2.2**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	115	(60 - 130)
	121	(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 #...: E1I180303 **Work Order #...:** EKM991DE-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1I180303-001 EKM991DF-MSD
Date Sampled...: 09/18/01 12:15 **Date Received..:** 09/18/01 15:40 **MS Run #.....:** 1263292
Prep Date.....: 09/20/01 **Analysis Date..:** 09/20/01
Prep Batch #...: 1263591 **Analysis Time..:** 12:58
Dilution Factor: 1 **Analyst ID.....:** 999998 **Instrument ID..:** MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**57.1**	**ug/kg**	**114**		**SW846 8260B**
	ND	**50.0**	**53.4**	**ug/kg**	**107**	**6.6**	**SW846 8260B**
Benzene	**ND**	**50.0**	**55.2**	**ug/kg**	**110**		**SW846 8260B**
	ND	**50.0**	**51.0**	**ug/kg**	**102**	**7.9**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**57.4**	**ug/kg**	**115**		**SW846 8260B**
	ND	**50.0**	**55.5**	**ug/kg**	**111**	**3.4**	**SW846 8260B**
Toluene	**ND**	**50.0**	**48.3**	**ug/kg**	**97**		**SW846 8260B**
	ND	**50.0**	**45.9**	**ug/kg**	**92**	**5.0**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**47.9**	**ug/kg**	**96**		**SW846 8260B**
	ND	**50.0**	**45.9**	**ug/kg**	**92**	**4.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(70 - 130)
	91	(70 - 130)
1,2-Dichloroethane-d4	98	(60 - 140)
	95	(60 - 140)
Toluene-d8	101	(70 - 130)
	98	(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

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID
Date Sampled...: 09/14/01 13:00 **Date Received..:** 09/14/01 15:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1I170146-001 **Prep Batch #...:** 1261228							
Mercury	102	(80 - 120)			SW846 7471A	09/18-09/19/01	EKKR61A0
	103	(80 - 120)	0.84	(0-20)	SW846 7471A	09/18-09/19/01	EKKR61A1

Dilution Factor: 1
Analysis Time..: 09:56 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 1261128

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID
Date Sampled...: 09/18/01 12:15 **Date Received..:** 09/18/01 15:40

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1I180303-001 **Prep Batch #...:** 1261474							
Aluminum	NC	(70 - 115)			SW846 6010B	09/18-09/19/01	EKM991A3
	NC	(70 - 115)		(0-25)	SW846 6010B	09/18-09/19/01	EKM991A4
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Arsenic	99	(75 - 115)			SW846 6010B	09/18-09/19/01	EKM991A5
	97	(75 - 115)	1.5	(0-25)	SW846 6010B	09/18-09/19/01	EKM991A6
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Antimony	12 N	(75 - 115)			SW846 6010B	09/18-09/19/01	EKM991A7
	11 N	(75 - 115)	7.6	(0-25)	SW846 6010B	09/18-09/19/01	EKM991A8
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Barium	109	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991A9
	111	(80 - 120)	1.4	(0-25)	SW846 6010B	09/18-09/19/01	EKM991CA
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Cadmium	85	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991CC
	84	(80 - 120)	0.94	(0-25)	SW846 6010B	09/18-09/19/01	EKM991CD
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Chromium	121 N	(85 - 120)			SW846 6010B	09/18-09/19/01	EKM991CE
	119	(85 - 120)	1.1	(0-25)	SW846 6010B	09/18-09/19/01	EKM991CF
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Beryllium	107	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991CG
	106	(80 - 120)	0.44	(0-25)	SW846 6010B	09/18-09/19/01	EKM991CH
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID
Date Sampled...: 09/18/01 12:15 **Date Received..:** 09/18/01 15:40

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	99	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991CJ
	98	(80 - 120)	0.89	(0-25)	SW846 6010B	09/18-09/19/01	EKM991CK
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Selenium	96	(70 - 115)			SW846 6010B	09/18-09/19/01	EKM991CL
	95	(70 - 115)	0.97	(0-25)	SW846 6010B	09/18-09/19/01	EKM991CM
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Silver	100	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991CN
	98	(80 - 120)	1.4	(0-25)	SW846 6010B	09/18-09/19/01	EKM991CP
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Cobalt	103	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991CQ
	102	(80 - 120)	0.64	(0-25)	SW846 6010B	09/18-09/19/01	EKM991CR
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Copper	118	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991CT
	128 N	(80 - 120)	5.4	(0-25)	SW846 6010B	09/18-09/19/01	EKM991CU
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Molybdenum	92	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991CV
	89	(80 - 120)	3.0	(0-25)	SW846 6010B	09/18-09/19/01	EKM991CW
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Nickel	104	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991CX
	106	(80 - 120)	1.6	(0-25)	SW846 6010B	09/18-09/19/01	EKM991C0
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1I180303 **Matrix.....:** SOLID
Date Sampled...: 09/18/01 12:15 **Date Received..:** 09/18/01 15:40

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	99	(75 - 125)			SW846 6010B	09/18-09/19/01	EKM991C1
	98	(75 - 125)	1.4	(0-25)	SW846 6010B	09/18-09/19/01	EKM991C2
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Vanadium	112	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991C3
	117	(80 - 120)	2.6	(0-25)	SW846 6010B	09/18-09/19/01	EKM991C4
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					
Zinc	123 N	(80 - 120)			SW846 6010B	09/18-09/19/01	EKM991C5
	126 N	(80 - 120)	1.2	(0-25)	SW846 6010B	09/18-09/19/01	EKM991C6
		Dilution Factor: 1					
		Analysis Time..: 16:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1261264					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E1I180303	**Work Order #...:**	EKM991C7-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I180303-001		EKM991C8-MSD		
Date Sampled...:	09/18/01 12:15	**Date Received..:**	09/18/01 15:40	**MS Run #.....:**	1262099
Prep Date.....:	09/18/01	**Analysis Date..:**	09/19/01		
Prep Batch #...:	1262234	**Analysis Time..:**	13:52		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**94**	**(60 - 130)**			**SW846 8015B**
	87	**(60 - 130)**	**8.3**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	87	(60 - 130)
	81	(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 Semivolatiles

Client Lot #...:	E1I180303	**Work Order #...:**	EKM991C9-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I180303-001		EKM991DA-MSD		
Date Sampled...:	09/18/01 12:15	**Date Received..:**	09/18/01 15:40	**MS Run #.....:**	1262123
Prep Date.....:	09/19/01	**Analysis Date..:**	09/19/01		
Prep Batch #...:	1262266	**Analysis Time..:**	18:14		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSE

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**73**	**(50 - 125)**			**SW846 8270C**
	68	**(50 - 125)**	**7.0**	**(0-35)**	**SW846 8270C**
4-Chloro-3-methylphenol	**72**	**(50 - 110)**			**SW846 8270C**
	68	**(50 - 110)**	**5.4**	**(0-35)**	**SW846 8270C**
2-Chlorophenol	**72**	**(50 - 120)**			**SW846 8270C**
	67	**(50 - 120)**	**6.9**	**(0-35)**	**SW846 8270C**
1,4-Dichlorobenzene	**71**	**(40 - 115)**			**SW846 8270C**
	56	**(40 - 115)**	**23**	**(0-35)**	**SW846 8270C**
2,4-Dinitrotoluene	**89**	**(40 - 120)**			**SW846 8270C**
	87	**(40 - 120)**	**2.2**	**(0-35)**	**SW846 8270C**
4-Nitrophenol	**67**	**(10 - 120)**			**SW846 8270C**
	63	**(10 - 120)**	**6.2**	**(0-35)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**79**	**(40 - 120)**			**SW846 8270C**
	72	**(40 - 120)**	**10**	**(0-35)**	**SW846 8270C**
Pentachlorophenol	**86**	**(20 - 130)**			**SW846 8270C**
	81	**(20 - 130)**	**6.6**	**(0-35)**	**SW846 8270C**
Phenol	**56**	**(40 - 110)**			**SW846 8270C**
	53	**(40 - 110)**	**5.8**	**(0-35)**	**SW846 8270C**
Pyrene	**72**	**(50 - 140)**			**SW846 8270C**
	73	**(50 - 140)**	**1.2**	**(0-35)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**90**	**(50 - 115)**			**SW846 8270C**
	78	**(50 - 115)**	**14**	**(0-35)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	71	(40 - 130)
	72	(40 - 130)
2-Fluorophenol	70	(50 - 115)
	66	(50 - 115)
2,4,6-Tribromophenol	73	(30 - 115)
	72	(30 - 115)
Nitrobenzene-d5	74	(45 - 115)
	74	(45 - 115)
Phenol-d5	66	(50 - 120)
	63	(50 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1I180303 **Work Order #...:** EKM991C9-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1I180303-001 EKM991DA-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	73	(50 - 140)
	72	(50 - 140)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E1I180303	**Work Order #...:**	EKM991DC-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I180303-001		EKM991DD-MSD		
Date Sampled...:	09/18/01 12:15	**Date Received..:**	09/18/01 15:40	**MS Run #.....:**	1262196
Prep Date.....:	09/19/01	**Analysis Date..:**	09/19/01		
Prep Batch #...:	1262369	**Analysis Time..:**	11:42		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**121**	**(80 - 140)**			**SW846 8015B**
	124	**(80 - 140)**	**2.2**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	115	(60 - 130)
	121	(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 #...:	E1I180303	**Work Order #...:**	EKM991DE-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I180303-001		EKM991DF-MSD		
Date Sampled...:	09/18/01 12:15	**Date Received..:**	09/18/01 15:40	**MS Run #.....:**	1263292
Prep Date.....:	09/20/01	**Analysis Date..:**	09/20/01		
Prep Batch #...:	1263591	**Analysis Time..:**	12:58		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**114**	**(60 - 150)**			**SW846 8260B**
	107	**(60 - 150)**	**6.6**	**(0-30)**	**SW846 8260B**
Benzene	**110**	**(70 - 140)**			**SW846 8260B**
	102	**(70 - 140)**	**7.9**	**(0-30)**	**SW846 8260B**
Trichloroethene	**115**	**(70 - 130)**			**SW846 8260B**
	111	**(70 - 130)**	**3.4**	**(0-30)**	**SW846 8260B**
Toluene	**97**	**(70 - 130)**			**SW846 8260B**
	92	**(70 - 130)**	**5.0**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**96**	**(70 - 130)**			**SW846 8260B**
	92	**(70 - 130)**	**4.2**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(70 - 130)
	91	(70 - 130)
1,2-Dichloroethane-d4	98	(60 - 140)
	95	(60 - 140)
Toluene-d8	101	(70 - 130)
	98	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Subcontracted Analysis

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Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

LABORATORY REPORT

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

Attention: Diane Suzuki
Project: E1I180303

Sampled: 09/18/01
Received: 09/19/01
Reported: 09/21/01

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

CA ELAP Certificate #1169
AZ DHS License #AZ0062

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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

Client Project ID: E1I180303

Report Number: CKI0161

Sampled:09/18/01
Received:09/19/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKI0161-01 (SP_20_1 - Soil)								
cenaphthene	EPA 8310	C1I2010	50	ND	1	9/20/01	9/20/01	
cenaphthylene	EPA 8310	C1I2010	200	ND	1	9/20/01	9/20/01	
nthracene	EPA 8310	C1I2010	2.0	ND	1	9/20/01	9/20/01	
enzo(a)anthracene	EPA 8310	C1I2010	2.0	ND	1	9/20/01	9/20/01	
enzo(a)pyrene	EPA 8310	C1I2010	2.0	ND	1	9/20/01	9/20/01	
enzo(b)fluoranthene	EPA 8310	C1I2010	5.0	ND	1	9/20/01	9/20/01	
enzo(g,h,i)perylene	EPA 8310	C1I2010	5.0	ND	1	9/20/01	9/20/01	
enzo(k)fluoranthene	EPA 8310	C1I2010	2.0	ND	1	9/20/01	9/20/01	
rysene	EPA 8310	C1I2010	5.0	ND	1	9/20/01	9/20/01	
ibenzo(a,h)anthracene	EPA 8310	C1I2010	5.0	ND	1	9/20/01	9/20/01	
uoranthene	EPA 8310	C1I2010	5.0	ND	1	9/20/01	9/20/01	
uorene	EPA 8310	C1I2010	5.0	ND	1	9/20/01	9/20/01	
deno(1,2,3-cd)pyrene	EPA 8310	C1I2010	5.0	ND	1	9/20/01	9/20/01	
aphthalene	EPA 8310	C1I2010	40	ND	1	9/20/01	9/20/01	
enanthrene	EPA 8310	C1I2010	5.0	ND	1	9/20/01	9/20/01	
rene	EPA 8310	C1I2010	5.0	ND	1	9/20/01	9/20/01	
Surrogate: 2-Methylanthracene (35-115%)				*72.1 %*				

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STL Los Angeles
721 S. Grand Avenue
anta Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1I180303

Report Number: CKI0161

Sampled:09/18/01
Received:09/19/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
tch: C1I2010 Extracted: 09/20/01										
ank Analyzed: 09/20/01 (C1I2010-BLK1)										
cenaphthene	ND	50	ug/kg							
enaphthylene	ND	200	ug/kg							
hracene	ND	2.0	ug/kg							
enzo(a)anthracene	ND	2.0	ug/kg							
enzo(a)pyrene	ND	2.0	ug/kg							
nzo(b)fluoranthene	ND	5.0	ug/kg							
enzo(g,h,i)perylene	ND	5.0	ug/kg							
enzo(k)fluoranthene	ND	2.0	ug/kg							
ysene	ND	5.0	ug/kg							
enzo(a,h)anthracene	ND	5.0	ug/kg							
luoranthene	ND	5.0	ug/kg							
orene	ND	5.0	ug/kg							
eno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
aphthalene	ND	40	ug/kg							
henanthrene	ND	5.0	ug/kg							
ene	ND	5.0	ug/kg							
rogate: 2-Methylanthracene	*4.47*		*ug/kg*	*8.00*		*55.9*	*35-115*			
CS Analyzed: 09/20/01 (C1I2010-BS1)										**M-NR**
enaphthene	110	50	ug/kg	160		68.8	45-115			
enaphthylene	344	200	ug/kg	320		108	50-115			
nthracene	10.8	2.0	ug/kg	16.0		67.5	55-115			
nzo(a)anthracene	14.3	2.0	ug/kg	16.0		89.4	65-115			
nzo(a)pyrene	11.2	2.0	ug/kg	16.0		70.0	55-115			
enzo(b)fluoranthene	27.5	5.0	ug/kg	32.0		85.9	65-115			
nzo(g,h,i)perylene	28.4	5.0	ug/kg	32.0		88.8	60-115			
nzo(k)fluoranthene	12.8	2.0	ug/kg	16.0		80.0	65-115			
hrysene	14.1	5.0	ug/kg	16.0		88.1	65-115			
ibenzo(a,h)anthracene	29.2	5.0	ug/kg	32.0		91.2	60-115			
oranthene	27.1	5.0	ug/kg	32.0		84.7	65-115			
orene	24.2	5.0	ug/kg	32.0		75.6	55-115			
deno(1,2,3-cd)pyrene	14.1	5.0	ug/kg	16.0		88.1	55-115			
phthalene	148	40	ug/kg	160		92.5	45-115			
enanthrene	13.5	5.0	ug/kg	16.0		84.4	55-120			
yrene	15.5	5.0	ug/kg	16.0		96.9	55-115			

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

Client Project ID: E1I180303

Report Number: CKI0161

Sampled:09/18/01
Received:09/19/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1I2010 Extracted: 09/20/01										
LCS Analyzed: 09/20/01 (C1I2010-BS1)										**M-NR**
Surrogate: 2-Methylanthracene	*5.26*		*ug/kg*	*8.00*		*65.8*	*35-115*			

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Clifton J. Kiser
Project Manager

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

Client Project ID: E1I180303

Report Number: CKI0161

Sampled:09/18/01
Received:09/19/01

DATA QUALIFIERS AND DEFINITIONS

M-NR	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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[redacted]

Chain of Custody Record

To: Del Mar Colton

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: STL Los Angeles	Project Manager: Diane Suzuki	Date: 9/18/01	Chain of Custody Number: 049793
Address: 1721 S Grand Ave.	Telephone Number (Area Code)/Fax Number: (714) 258 8610 Ext 309	Lab Number: EIT 180303	Page 1 of 1
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact:	Lab Contact:	
Project Name and Location (State): Boeing C-6 / Haley & Aldrich	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8310 PAH	Special Instructions/ Conditions of Receipt
SP_20_1	9/18/01	12:15				X		1							X	

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

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

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

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Pacelta Adriana	9/18/01	16:30	1. Received By: [signature]	9/19/01	0930
2. Relinquished By: [signature]	9/19/01	0945	2. Received By:		
3. Relinquished By:			3. Received By: [signature]	9/19/01	9:45

Comments: Rel [signature] 9-19-01 12:15 Connie Schultz 9-19-01 11:15 3°C

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

BOE-C6-0180667

000052

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

October 10, 2001

STL LOT NUMBER: E1J030176
NELAP Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002-S56

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

Dear Mr. Zachary,

This report contains the analytical results for the four samples received under chain of custody by STL Los Angeles on October 3, 2001. 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. The PAHs by 8310 analysis was performed by Del Mar Analytical. See attached report for any related anomaly.

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

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

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

Page 1 of _____ total pages in this report.

Chain of Custody Record

STL-4124 (0700)

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 10/02/01	Chain of Custody Number: 054106
Address: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: E1J030176	Page 1 of 1
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact:	Lab Contact:	
Project Name and Location (State): BOEING C6 - TORRANCE	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 27285-001			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): VOCs w/ Tic	SVOCs	TPH	PAH	METALS	PCBs	Special Instructions/ Conditions of Receipt
SP-21-100201-1	10/02/01	19:00				X	X						X	X	X	X	X	X	
SP-21-100201-2	↓	↓				↓	↓						↓	↓	↓	↓	↓	↓	
SP-23-100201-1	↓	↓				↓	↓						↓	↓	↓	↓	↓	↓	
SP-23-100201-2	↓	↓				↓	↓						↓	↓	↓	↓	↓	↓	

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):

	Date	Time		Date	Time
1. Relinquished By: TRAVIS HAMMOND	10/02/01	21:30	1. Received By: [signature]	10/2/01	21:30
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments:

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

BOE-C6-0180669

SEVERN TRENT SERVICES

CHANGE ORDER

Lab Analysis No.	EJ030176
Client Name	Haley & Aldrich
Contact	Travis Hammond

- [x] CANCEL Work
- [ ] ADD Work
- [ ] Chain of Custody Discrepancy
- [ ] TAT Change
- [ ] Matrix
- [ ] Sample Problem
- [ ] Tests Not Defined
- [ ] Other

EXPLANATION/RESOLUTION

SP-21-100201-1
SP-21-100201-2
SP-23-100201-1
SP-23-100201-2

cancel PCB

Initiated By: [signature]

Date/Time: 10/3/01

Received By: _____

Date/Time: _____

Distribution:
Original - Sample Control/Job Folder; Yellow - Lab; Pink - Initiator

ENS-3008

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 10/03/01

Quantims Lot #: E1A030176
Quote #: 42295
Client Name: HALEY & ALDRICH
Project:
Received by: AR
Date/Time Received: 10/02/01 21:30
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☐In-House Courier ☐Rey B. ☐UPS ☐DES ☐Other

Initial / Date

Custody Seal Status: ☐Intact ☐Broken ☒None 10/03/01
Custody Seal #(s): ☐No Seal # .....
Sample Container(s): ☒STL-LA ☐Client ☐N/A .....
Temperature(s) (COOLER/BLANK) in °C: 8 °C (CORRECTED TEMP) 5°C
Thermometer Used : ☒IR (Infra-red) A ☐Digital (Probe) .....
Samples: ☒Intact (CF: -3.0°C) ☐Broken ☐Other .....
Anomalies: ☒No ☐Yes (See Clouseau) .....
Labeled by .....
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) :

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

Fraction	1->6										PH
VOAh /*	—										N/A
6oz CGJ	3										

h:HCl na:Sodium Hydoxide zana:Zinc Acetate/Sodium Hydroxide s: H2SO4 n:HNO3 n/f:HNO3-Field filtered n/l/f: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: Stuart 10-03-01 REVIEWED BY/DATE: 10/4/01

SEVERN
TRENT
SERVICES

Analytical Report

EXECUTIVE SUMMARY - Detection Highlights

E1J030176

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_21_100201_1 10/02/01 19:00 001				
Aluminum	5950 J	20.0	mg/kg	SW846 6010B
Arsenic	4.5	1.0	mg/kg	SW846 6010B
Barium	44.8	2.0	mg/kg	SW846 6010B
Chromium	10.7 J	1.0	mg/kg	SW846 6010B
Beryllium	0.18 B	0.50	mg/kg	SW846 6010B
Lead	2.2	0.50	mg/kg	SW846 6010B
Cobalt	3.9 B	5.0	mg/kg	SW846 6010B
Copper	5.8	2.5	mg/kg	SW846 6010B
Molybdenum	0.60 B	4.0	mg/kg	SW846 6010B
Nickel	7.3	4.0	mg/kg	SW846 6010B
Vanadium	19.3	5.0	mg/kg	SW846 6010B
Zinc	20.5	2.0	mg/kg	SW846 6010B
SP_21_100201_2 10/02/01 19:00 002				
Arsenic	4.2	1.0	mg/kg	SW846 6010B
Aluminum	7420	20.0	mg/kg	SW846 6010B
Barium	37.9	2.0	mg/kg	SW846 6010B
Chromium	13.6	1.0	mg/kg	SW846 6010B
Beryllium	0.25 B	0.50	mg/kg	SW846 6010B
Lead	2.1	0.50	mg/kg	SW846 6010B
Selenium	0.56	0.50	mg/kg	SW846 6010B
Cobalt	4.5 B	5.0	mg/kg	SW846 6010B
Copper	6.3	2.5	mg/kg	SW846 6010B
Nickel	8.8	4.0	mg/kg	SW846 6010B
Vanadium	23.5	5.0	mg/kg	SW846 6010B
Zinc	27.7	2.0	mg/kg	SW846 6010B
2-Butanone	30	25	ug/kg	SW846 8260B
Chloroform	2.3 J	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	1.4 J	5.0	ug/kg	SW846 8260B
Toluene	4.0 J	5.0	ug/kg	SW846 8260B
SP_23_100201_1 10/02/01 19:00 003				
Total Carbon Chain Range	8.3 J	10	mg/kg	SW846 8015B
C6-C8	0.10 J	1.0	mg/kg	SW846 8015B
Aluminum	11500	20.0	mg/kg	SW846 6010B
Arsenic	15.7	1.0	mg/kg	SW846 6010B
Barium	77.7	2.0	mg/kg	SW846 6010B
Chromium	14.2	1.0	mg/kg	SW846 6010B
Beryllium	0.78	0.50	mg/kg	SW846 6010B
Lead	14.8	0.50	mg/kg	SW846 6010B
Cobalt	4.4 B	5.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1J030176

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_23_100201_1 10/02/01 19:00 003				
Copper	14.8	2.5	mg/kg	SW846 6010B
Nickel	8.4	4.0	mg/kg	SW846 6010B
Vanadium	20.9	5.0	mg/kg	SW846 6010B
Zinc	56.8	2.0	mg/kg	SW846 6010B
Acetone	14000	10000	ug/kg	SW846 8260B
2-Butanone	570000	10000	ug/kg	SW846 8260B
1,1,1-Trichloroethane	2500	2000	ug/kg	SW846 8260B
4-Methyl-2-pentanone	420000	10000	ug/kg	SW846 8260B
Toluene	17000	2000	ug/kg	SW846 8260B
SP_23_100201_2 10/02/01 19:00 004				
C6-C8	290 B	50	mg/kg	SW846 8015B
Mercury	0.040 B	0.10	mg/kg	SW846 7471A
Aluminum	19600	20.0	mg/kg	SW846 6010B
Arsenic	5.4	1.0	mg/kg	SW846 6010B
Barium	121	2.0	mg/kg	SW846 6010B
Chromium	24.4	1.0	mg/kg	SW846 6010B
Beryllium	0.74	0.50	mg/kg	SW846 6010B
Lead	8.1	0.50	mg/kg	SW846 6010B
Selenium	0.57	0.50	mg/kg	SW846 6010B
Cobalt	9.1	5.0	mg/kg	SW846 6010B
Copper	23.3	2.5	mg/kg	SW846 6010B
Nickel	17.4	4.0	mg/kg	SW846 6010B
Vanadium	45.8	5.0	mg/kg	SW846 6010B
Zinc	150	2.0	mg/kg	SW846 6010B
2-Butanone	140000	31000	ug/kg	SW846 8260B
1,1,1-Trichloroethane	37000	6200	ug/kg	SW846 8260B
Trichloroethene	18000	6200	ug/kg	SW846 8260B
Toluene	410000	6200	ug/kg	SW846 8260B
Ethylbenzene	4900 J	6200	ug/kg	SW846 8260B
Xylenes (total)	40000	6200	ug/kg	SW846 8260B

METHODS SUMMARY

E1J030176

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
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846
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

E1J030176

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
ELG2J	001	SP_21_100201_1	10/02/01	19:00
ELG2Q	002	SP_21_100201_2	10/02/01	19:00
ELG2R	003	SP_23_100201_1	10/02/01	19:00
ELG2T	004	SP_23_100201_2	10/02/01	19:00

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: SP_21_100201_1

GC Semivolatiles

Lot-Sample #...:	E1J030176-001	Work Order #...:	ELG2J1AA	Matrix.....:	SOLID
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	1277146
Prep Date.....:	10/04/01	Analysis Date..:	10/05/01		
Prep Batch #...:	1277315	Analysis Time..:	04:04		
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	72	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_1

GC Volatiles

Lot-Sample #...:	E1J030176-001	Work Order #...:	ELG2J1AC	Matrix.....:	SOLID
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	1278202
Prep Date.....:	10/04/01	Analysis Date..:	10/05/01		
Prep Batch #...:	1278360	Analysis Time..:	12:23		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G15		
		Method.....:	SW846 8015B		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	67	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_1

GC/MS Volatiles

Lot-Sample #...: E1J030176-001 Work Order #...: ELG2J1AD Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1281228
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1281439 Analysis Time..: 14:46
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	2.0
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	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
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	10
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)

BAILEY & ALDRICH INC

Client Sample ID: SP_21_100201_1

GC/MS Volatiles

Lot-Sample #...: E1J030176-001 Work Order #...: ELG2J1AD 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	5.0
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	100	(70 - 130)
1,2-Dichloroethane-d4	77	(60 - 140)
Toluene-d8	88	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_1

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-001 Work Order #...: ELG2J1AE Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1277294
Prep Date.....: 10/04/01 Analysis Date..: 10/11/01
Prep Batch #...: 1277539 Analysis Time..: 00:51
Dilution Factor: 1
Analyst ID.....: 010060 Instrument ID..: MSI
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	330	ug/kg	100
Acenaphthylene	ND	330	ug/kg	100
Anthracene	ND	330	ug/kg	80
Benzo(a)anthracene	ND	330	ug/kg	100
Benzo(b)fluoranthene	ND	330	ug/kg	100
Benzo(k)fluoranthene	ND	330	ug/kg	200
Benzo(ghi)perylene	ND	330	ug/kg	150
Benzo(a)pyrene	ND	330	ug/kg	70
Benzoic acid	ND	1600	ug/kg	500
Benzyl alcohol	ND	330	ug/kg	100
bis(2-Chloroethoxy) methane	ND	330	ug/kg	100
bis(2-Chloroethyl)-ether	ND	330	ug/kg	100
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	110
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	200
4-Bromophenyl phenyl ether	ND	330	ug/kg	80
Butyl benzyl phthalate	ND	330	ug/kg	100
Carbazole	ND	330	ug/kg	80
4-Chloroaniline	ND	330	ug/kg	150
4-Chloro-3-methylphenol	ND	330	ug/kg	100
2-Chloronaphthalene	ND	330	ug/kg	100
2-Chlorophenol	ND	330	ug/kg	150
4-Chlorophenyl phenyl ether	ND	330	ug/kg	90
Chrysene	ND	330	ug/kg	100
Dibenz(a,h)anthracene	ND	330	ug/kg	100
Dibenzofuran	ND	330	ug/kg	90
Di-n-butyl phthalate	ND	330	ug/kg	100
1,2-Dichlorobenzene	ND	330	ug/kg	130
1,3-Dichlorobenzene	ND	330	ug/kg	130
1,4-Dichlorobenzene	ND	330	ug/kg	130
3,3'-Dichlorobenzidine	ND	1600	ug/kg	400
2,4-Dichlorophenol	ND	330	ug/kg	90

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_1

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-001 Work Order #...: ELG2J1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	330	ug/kg	100
2,4-Dimethylphenol	ND	330	ug/kg	100
Dimethyl phthalate	ND	330	ug/kg	80
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	300
2,4-Dinitrophenol	ND	1600	ug/kg	500
2,4-Dinitrotoluene	ND	330	ug/kg	100
2,6-Dinitrotoluene	ND	330	ug/kg	90
Di-n-octyl phthalate	ND	330	ug/kg	110
Fluoranthene	ND	330	ug/kg	70
Fluorene	ND	330	ug/kg	90
Hexachlorobenzene	ND	330	ug/kg	80
Hexachlorobutadiene	ND	330	ug/kg	100
Hexachlorocyclopentadiene	ND	1600	ug/kg	370
Hexachloroethane	ND	330	ug/kg	130
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	100
Isophorone	ND	330	ug/kg	100
2-Methylnaphthalene	ND	330	ug/kg	90
2-Methylphenol	ND	330	ug/kg	80
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	100
Naphthalene	ND	330	ug/kg	90
2-Nitroaniline	ND	1600	ug/kg	300
3-Nitroaniline	ND	1600	ug/kg	350
4-Nitroaniline	ND	1600	ug/kg	200
Nitrobenzene	ND	330	ug/kg	150
2-Nitrophenol	ND	330	ug/kg	100
4-Nitrophenol	ND	1600	ug/kg	400
N-Nitrosodiphenylamine	ND	330	ug/kg	80
N-Nitrosodi-n-propylamine	ND	330	ug/kg	90
Pentachlorophenol	ND	1600	ug/kg	420
Phenanthrene	ND	330	ug/kg	80
Phenol	ND	330	ug/kg	100
Pyrene	ND	330	ug/kg	120
1,2,4-Trichlorobenzene	ND	330	ug/kg	100
2,4,5-Trichlorophenol	ND	330	ug/kg	100
2,4,6-Trichlorophenol	ND	330	ug/kg	70

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HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_1

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-001 Work Order #...: ELG2J1AE Matrix.....: SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	85	(40 - 130)
2-Fluorophenol	75	(50 - 115)
2,4,6-Tribromophenol	44	(30 - 115)
Nitrobenzene-d5	72	(45 - 115)
Phenol-d5	72	(50 - 120)
Terphenyl-d14	85	(50 - 140)

HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_2

GC Semivolatiles

Lot-Sample #...: E1J030176-002 Work Order #...: ELG2Q1AE Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1277146
Prep Date.....: 10/04/01 Analysis Date..: 10/05/01
Prep Batch #...: 1277315 Analysis Time..: 04:43
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: SP_21_100201_2

GC Volatiles

Lot-Sample #...:	E1J030176-002	Work Order #...:	ELG2Q1AF	Matrix.....:	SOLID
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	1278202
Prep Date.....:	10/05/01	Analysis Date..:	10/05/01		
Prep Batch #...:	1278360	Analysis Time..:	14:22		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G16		
		Method.....:	SW846 8015B		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	70	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_2

GC/MS Volatiles

Lot-Sample #...: E1J030176-002 Work Order #...: ELG2Q1AG Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1281228
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1281439 Analysis Time..: 15:17
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	2.0
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	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
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	**30**	**25**	**ug/kg**	**15**
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	**2.3 J**	**5.0**	**ug/kg**	**1.0**
Tetrahydrofuran	ND	20	ug/kg	10
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	**1.4 J**	**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	**4.0 J**	**5.0**	**ug/kg**	**2.0**
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_2

GC/MS Volatiles

Lot-Sample #...: E1J030176-002 Work Order #...: ELG2Q1AG 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	5.0
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	100	(70 - 130)
1,2-Dichloroethane-d4	77	(60 - 140)
Toluene-d8	88	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_2

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-002 Work Order #...: ELG2Q1AH Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1277294
Prep Date.....: 10/04/01 Analysis Date..: 10/11/01
Prep Batch #...: 1277539 Analysis Time..: 11:31
Dilution Factor: 1
Analyst ID.....: 010060 Instrument ID..: MSI
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	330	ug/kg	100
Acenaphthylene	ND	330	ug/kg	100
Anthracene	ND	330	ug/kg	80
Benzo(a)anthracene	ND	330	ug/kg	100
Benzo(b)fluoranthene	ND	330	ug/kg	100
Benzo(k)fluoranthene	ND	330	ug/kg	200
Benzo(ghi)perylene	ND	330	ug/kg	150
Benzo(a)pyrene	ND	330	ug/kg	70
Benzoic acid	ND	1600	ug/kg	500
Benzyl alcohol	ND	330	ug/kg	100
bis(2-Chloroethoxy) methane	ND	330	ug/kg	100
bis(2-Chloroethyl)-ether	ND	330	ug/kg	100
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	110
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	200
4-Bromophenyl phenyl ether	ND	330	ug/kg	80
Butyl benzyl phthalate	ND	330	ug/kg	100
Carbazole	ND	330	ug/kg	80
4-Chloroaniline	ND	330	ug/kg	150
4-Chloro-3-methylphenol	ND	330	ug/kg	100
2-Chloronaphthalene	ND	330	ug/kg	100
2-Chlorophenol	ND	330	ug/kg	150
4-Chlorophenyl phenyl ether	ND	330	ug/kg	90
Chrysene	ND	330	ug/kg	100
Dibenz(a,h)anthracene	ND	330	ug/kg	100
Dibenzofuran	ND	330	ug/kg	90
Di-n-butyl phthalate	ND	330	ug/kg	100
1,2-Dichlorobenzene	ND	330	ug/kg	130
1,3-Dichlorobenzene	ND	330	ug/kg	130
1,4-Dichlorobenzene	ND	330	ug/kg	130
3,3'-Dichlorobenzidine	ND	1600	ug/kg	400
2,4-Dichlorophenol	ND	330	ug/kg	90

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HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_2

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-002 Work Order #...: ELG2Q1AH Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	330	ug/kg	100
2,4-Dimethylphenol	ND	330	ug/kg	100
Dimethyl phthalate	ND	330	ug/kg	80
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	300
2,4-Dinitrophenol	ND	1600	ug/kg	500
2,4-Dinitrotoluene	ND	330	ug/kg	100
2,6-Dinitrotoluene	ND	330	ug/kg	90
Di-n-octyl phthalate	ND	330	ug/kg	110
Fluoranthene	ND	330	ug/kg	70
Fluorene	ND	330	ug/kg	90
Hexachlorobenzene	ND	330	ug/kg	80
Hexachlorobutadiene	ND	330	ug/kg	100
Hexachlorocyclopentadiene	ND	1600	ug/kg	370
Hexachloroethane	ND	330	ug/kg	130
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	100
Isophorone	ND	330	ug/kg	100
2-Methylnaphthalene	ND	330	ug/kg	90
2-Methylphenol	ND	330	ug/kg	80
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	100
Naphthalene	ND	330	ug/kg	90
2-Nitroaniline	ND	1600	ug/kg	300
3-Nitroaniline	ND	1600	ug/kg	350
4-Nitroaniline	ND	1600	ug/kg	200
Nitrobenzene	ND	330	ug/kg	150
2-Nitrophenol	ND	330	ug/kg	100
4-Nitrophenol	ND	1600	ug/kg	400
N-Nitrosodiphenylamine	ND	330	ug/kg	80
N-Nitrosodi-n-propylamine	ND	330	ug/kg	90
Pentachlorophenol	ND	1600	ug/kg	420
Phenanthrene	ND	330	ug/kg	80
Phenol	ND	330	ug/kg	100
Pyrene	ND	330	ug/kg	120
1,2,4-Trichlorobenzene	ND	330	ug/kg	100
2,4,5-Trichlorophenol	ND	330	ug/kg	100
2,4,6-Trichlorophenol	ND	330	ug/kg	70

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BALEY & ALDRICH INC

Client Sample ID: SP_21_100201_2

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-002 Work Order #...: ELG2Q1AH Matrix.....: SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	71	(40 - 130)
2-Fluorophenol	72	(50 - 115)
2,4,6-Tribromophenol	63	(30 - 115)
Nitrobenzene-d5	66	(45 - 115)
Phenol-d5	70	(50 - 120)
Terphenyl-d14	68	(50 - 140)

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_1

GC Semivolatiles

Lot-Sample #...:	E1J030176-003	Work Order #...:	ELG2R1AE	Matrix.....:	SOLID
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	1277146
Prep Date.....:	10/04/01	Analysis Date..:	10/05/01		
Prep Batch #...:	1277315	Analysis Time..:	06:41		
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	**8.3 J**	**10**	**mg/kg**	**5.0**

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

NOTE(S):

J Estimated result. Result is less than RL.

BALEY & ALDRICH INC

Client Sample ID: SP_23_100201_1

GC Volatiles

Lot-Sample #...:	E1J030176-003	Work Order #...:	ELG2R1AF	Matrix.....:	SOLID
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	1278202
Prep Date.....:	10/05/01	Analysis Date..:	10/05/01		
Prep Batch #...:	1278360	Analysis Time..:	14:51		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G16		
		Method.....:	SW846 8015B		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	74	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

Unknown peaks were detected.

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_1

GC/MS Volatiles

Lot-Sample #...: E1J030176-003 Work Order #...: ELG2R1AG Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1281224
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1281436 Analysis Time..: 19:30
Dilution Factor: 8
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	4000	ug/kg	170
Chloromethane	ND	4000	ug/kg	200
Vinyl chloride	ND	4000	ug/kg	150
Bromomethane	ND	4000	ug/kg	250
1,2-Dibromoethane	ND	2000	ug/kg	70
Chloroethane	ND	4000	ug/kg	250
Trichlorofluoromethane	ND	4000	ug/kg	70
Acrolein	ND	40000	ug/kg	2000
1,1-Dichloroethene	ND	2000	ug/kg	120
Iodomethane	ND	4000	ug/kg	250
Acetone	**14000**	**10000**	**ug/kg**	**400**
Carbon disulfide	ND	2000	ug/kg	100
Methylene chloride	ND	2000	ug/kg	50
trans-1,2-Dichloroethene	ND	2000	ug/kg	120
Acrylonitrile	ND	40000	ug/kg	2000
Methyl tert-butyl ether	ND	2000	ug/kg	100
1,1-Dichloroethane	ND	2000	ug/kg	100
Vinyl acetate	ND	4000	ug/kg	250
2,2-Dichloropropane	ND	2000	ug/kg	60
cis-1,2-Dichloroethene	ND	2000	ug/kg	100
2-Butanone	**570000**	**10000**	**ug/kg**	**500**
Bromochloromethane	ND	2000	ug/kg	75
Chloroform	ND	2000	ug/kg	70
Tetrahydrofuran	ND	8000	ug/kg	500
1,1,1-Trichloroethane	**2500**	**2000**	**ug/kg**	**70**
1,1-Dichloropropene	ND	2000	ug/kg	100
Carbon tetrachloride	ND	2000	ug/kg	60
Benzene	ND	2000	ug/kg	100
1,2-Dichloroethane	ND	2000	ug/kg	70
Trichloroethene	ND	2000	ug/kg	60
1,2-Dichloropropane	ND	2000	ug/kg	100
Bromodichloromethane	ND	2000	ug/kg	100
2-Chloroethyl vinyl ether	ND	4000	ug/kg	250
cis-1,3-Dichloropropene	ND	2000	ug/kg	100
4-Methyl-2-pentanone	**420000**	**10000**	**ug/kg**	**400**
Toluene	**17000**	**2000**	**ug/kg**	**60**
trans-1,3-Dichloropropene	ND	2000	ug/kg	70

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HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_1

GC/MS Volatiles

Lot-Sample #...: E1J030176-003 Work Order #...: ELG2R1AG Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	2000	ug/kg	100
Tetrachloroethene	ND	2000	ug/kg	80
2-Hexanone	ND	10000	ug/kg	300
Dibromochloromethane	ND	2000	ug/kg	100
Chlorobenzene	ND	2000	ug/kg	100
Ethylbenzene	ND	2000	ug/kg	70
Xylenes (total)	ND	2000	ug/kg	170
Styrene	ND	4000	ug/kg	100
Bromoform	ND	2000	ug/kg	100
Isopropylbenzene	ND	2000	ug/kg	120
p-Isopropyltoluene	ND	2000	ug/kg	70
Bromobenzene	ND	2000	ug/kg	70
1,1,1,2-Tetrachloroethane	ND	2000	ug/kg	50
1,1,2,2-Tetrachloroethane	ND	2000	ug/kg	100
1,2,3-Trichloropropane	ND	2000	ug/kg	110
n-Propylbenzene	ND	2000	ug/kg	110
2-Chlorotoluene	ND	2000	ug/kg	70
4-Chlorotoluene	ND	2000	ug/kg	70
1,3,5-Trimethylbenzene	ND	2000	ug/kg	120
tert-Butylbenzene	ND	2000	ug/kg	70
1,2,4-Trimethylbenzene	ND	2000	ug/kg	70
sec-Butylbenzene	ND	2000	ug/kg	70
1,3-Dichlorobenzene	ND	2000	ug/kg	70
1,4-Dichlorobenzene	ND	2000	ug/kg	100
1,2-Dichlorobenzene	ND	2000	ug/kg	100
n-Butylbenzene	ND	2000	ug/kg	70
1,2-Dibromo-3-chloro-propane	ND	4000	ug/kg	150
1,2,4-Trichloro-benzene	ND	2000	ug/kg	70
Hexachlorobutadiene	ND	2000	ug/kg	70
1,2,3-Trichlorobenzene	ND	2000	ug/kg	70
t-Butanol	ND	40000	ug/kg	2500
Isopropyl ether	ND	4000	ug/kg	100
Tert-amyl methyl ether	ND	4000	ug/kg	100
Tert-butyl ethyl ether	ND	4000	ug/kg	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	126	(60 - 140)
1,2-Dichloroethane-d4	99	(60 - 140)
Toluene-d8	122	(60 - 140)

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_1

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-003 Work Order #...: ELG2R1AH Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1277294
Prep Date.....: 10/04/01 Analysis Date..: 10/11/01
Prep Batch #...: 1277539 Analysis Time..: 10:59
Dilution Factor: 1
Analyst ID.....: 010060 Instrument ID..: MSI
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	330	ug/kg	100
Acenaphthylene	ND	330	ug/kg	100
Anthracene	ND	330	ug/kg	80
Benzo(a)anthracene	ND	330	ug/kg	100
Benzo(b)fluoranthene	ND	330	ug/kg	100
Benzo(k)fluoranthene	ND	330	ug/kg	200
Benzo(ghi)perylene	ND	330	ug/kg	150
Benzo(a)pyrene	ND	330	ug/kg	70
Benzoic acid	ND	1600	ug/kg	500
Benzyl alcohol	ND	330	ug/kg	100
bis(2-Chloroethoxy) methane	ND	330	ug/kg	100
bis(2-Chloroethyl)-ether	ND	330	ug/kg	100
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	110
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	200
4-Bromophenyl phenyl ether	ND	330	ug/kg	80
Butyl benzyl phthalate	ND	330	ug/kg	100
Carbazole	ND	330	ug/kg	80
4-Chloroaniline	ND	330	ug/kg	150
4-Chloro-3-methylphenol	ND	330	ug/kg	100
2-Chloronaphthalene	ND	330	ug/kg	100
2-Chlorophenol	ND	330	ug/kg	150
4-Chlorophenyl phenyl ether	ND	330	ug/kg	90
Chrysene	ND	330	ug/kg	100
Dibenz(a,h)anthracene	ND	330	ug/kg	100
Dibenzofuran	ND	330	ug/kg	90
Di-n-butyl phthalate	ND	330	ug/kg	100
1,2-Dichlorobenzene	ND	330	ug/kg	130
1,3-Dichlorobenzene	ND	330	ug/kg	130
1,4-Dichlorobenzene	ND	330	ug/kg	130
3,3'-Dichlorobenzidine	ND	1600	ug/kg	400
2,4-Dichlorophenol	ND	330	ug/kg	90

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_1

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-003 Work Order #...: ELG2R1AH Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	330	ug/kg	100
2,4-Dimethylphenol	ND	330	ug/kg	100
Dimethyl phthalate	ND	330	ug/kg	80
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	300
2,4-Dinitrophenol	ND	1600	ug/kg	500
2,4-Dinitrotoluene	ND	330	ug/kg	100
2,6-Dinitrotoluene	ND	330	ug/kg	90
Di-n-octyl phthalate	ND	330	ug/kg	110
Fluoranthene	ND	330	ug/kg	70
Fluorene	ND	330	ug/kg	90
Hexachlorobenzene	ND	330	ug/kg	80
Hexachlorobutadiene	ND	330	ug/kg	100
Hexachlorocyclopentadiene	ND	1600	ug/kg	370
Hexachloroethane	ND	330	ug/kg	130
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	100
Isophorone	ND	330	ug/kg	100
2-Methylnaphthalene	ND	330	ug/kg	90
2-Methylphenol	ND	330	ug/kg	80
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	100
Naphthalene	ND	330	ug/kg	90
2-Nitroaniline	ND	1600	ug/kg	300
3-Nitroaniline	ND	1600	ug/kg	350
4-Nitroaniline	ND	1600	ug/kg	200
Nitrobenzene	ND	330	ug/kg	150
2-Nitrophenol	ND	330	ug/kg	100
4-Nitrophenol	ND	1600	ug/kg	400
N-Nitrosodiphenylamine	ND	330	ug/kg	80
N-Nitrosodi-n-propylamine	ND	330	ug/kg	90
Pentachlorophenol	ND	1600	ug/kg	420
Phenanthrene	ND	330	ug/kg	80
Phenol	ND	330	ug/kg	100
Pyrene	ND	330	ug/kg	120
1,2,4-Trichlorobenzene	ND	330	ug/kg	100
2,4,5-Trichlorophenol	ND	330	ug/kg	100
2,4,6-Trichlorophenol	ND	330	ug/kg	70

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_1

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-003 Work Order #...: ELG2R1AH Matrix.....: SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	69	(40 - 130)
2-Fluorophenol	59	(50 - 115)
2,4,6-Tribromophenol	59	(30 - 115)
Nitrobenzene-d5	61	(45 - 115)
Phenol-d5	74	(50 - 120)
Terphenyl-d14	91	(50 - 140)

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_2

GC Semivolatiles

Lot-Sample #...:	E1J030176-004	Work Order #...:	ELG2T1AE	Matrix.....:	SOLID
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	1277146
Prep Date.....:	10/04/01	Analysis Date..:	10/05/01		
Prep Batch #...:	1277315	Analysis Time..:	07:20		
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	83	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_2

GC Volatiles

Lot-Sample #...:	E1J030176-004	Work Order #...:	ELG2T1AF	Matrix.....:	SOLID
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	
Prep Date.....:	10/05/01	Analysis Date..:	10/05/01		
Prep Batch #...:	1278359	Analysis Time..:	08:30		
Dilution Factor:	5				
Analyst ID.....:	001464	Instrument ID..:	G15		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	290 B	50	mg/kg	30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	323 *	(60 - 130)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

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

The gasoline pattern appears degraded; matrix interference with TFT.

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_2

GC/MS Volatiles

Lot-Sample #...: E1J030176-004 Work Order #...: ELG2T1AG Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1281224
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1281436 Analysis Time..: 20:01
Dilution Factor: 25
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	12000	ug/kg	4200
Chloromethane	ND	12000	ug/kg	5000
Vinyl chloride	ND	12000	ug/kg	3800
Bromomethane	ND	12000	ug/kg	6200
1,2-Dibromoethane	ND	6200	ug/kg	1800
Chloroethane	ND	12000	ug/kg	6200
Trichlorofluoromethane	ND	12000	ug/kg	1800
Acrolein	ND	120000	ug/kg	50000
1,1-Dichloroethene	ND	6200	ug/kg	3000
Iodomethane	ND	12000	ug/kg	6200
Acetone	ND	31000	ug/kg	10000
Carbon disulfide	ND	6200	ug/kg	2500
Methylene chloride	ND	6200	ug/kg	1200
trans-1,2-Dichloroethene	ND	6200	ug/kg	3000
Acrylonitrile	ND	120000	ug/kg	50000
Methyl tert-butyl ether	ND	6200	ug/kg	2500
1,1-Dichloroethane	ND	6200	ug/kg	2500
Vinyl acetate	ND	12000	ug/kg	6200
2,2-Dichloropropane	ND	6200	ug/kg	1500
cis-1,2-Dichloroethene	ND	6200	ug/kg	2500
2-Butanone	**140000**	**31000**	**ug/kg**	**12000**
Bromochloromethane	ND	6200	ug/kg	1900
Chloroform	ND	6200	ug/kg	1800
Tetrahydrofuran	ND	25000	ug/kg	12000
1,1,1-Trichloroethane	**37000**	**6200**	**ug/kg**	**1800**
1,1-Dichloropropene	ND	6200	ug/kg	2500
Carbon tetrachloride	ND	6200	ug/kg	1500
Benzene	ND	6200	ug/kg	2500
1,2-Dichloroethane	ND	6200	ug/kg	1800
Trichloroethene	**18000**	**6200**	**ug/kg**	**1500**
1,2-Dichloropropane	ND	6200	ug/kg	2500
Bromodichloromethane	ND	6200	ug/kg	2500
2-Chloroethyl vinyl ether	ND	12000	ug/kg	6200
cis-1,3-Dichloropropene	ND	6200	ug/kg	2500
4-Methyl-2-pentanone	ND	31000	ug/kg	10000
Toluene	**410000**	**6200**	**ug/kg**	**1500**
trans-1,3-Dichloropropene	ND	6200	ug/kg	1800

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HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_2

GC/MS Volatiles

Lot-Sample #...: E1J030176-004 Work Order #...: ELG2T1AG Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	6200	ug/kg	2500
Tetrachloroethene	ND	6200	ug/kg	2000
2-Hexanone	ND	31000	ug/kg	7500
Dibromochloromethane	ND	6200	ug/kg	2500
Chlorobenzene	ND	6200	ug/kg	2500
Ethylbenzene	**4900 J**	**6200**	**ug/kg**	**1800**
Xylenes (total)	**40000**	**6200**	**ug/kg**	**4200**
Styrene	ND	12000	ug/kg	2500
Bromoform	ND	6200	ug/kg	2500
Isopropylbenzene	ND	6200	ug/kg	3000
p-Isopropyltoluene	ND	6200	ug/kg	1800
Bromobenzene	ND	6200	ug/kg	1800
1,1,1,2-Tetrachloroethane	ND	6200	ug/kg	1200
1,1,2,2-Tetrachloroethane	ND	6200	ug/kg	2500
1,2,3-Trichloropropane	ND	6200	ug/kg	2800
n-Propylbenzene	ND	6200	ug/kg	2800
2-Chlorotoluene	ND	6200	ug/kg	1800
4-Chlorotoluene	ND	6200	ug/kg	1800
1,3,5-Trimethylbenzene	ND	6200	ug/kg	3000
tert-Butylbenzene	ND	6200	ug/kg	1800
1,2,4-Trimethylbenzene	ND	6200	ug/kg	1800
sec-Butylbenzene	ND	6200	ug/kg	1800
1,3-Dichlorobenzene	ND	6200	ug/kg	1800
1,4-Dichlorobenzene	ND	6200	ug/kg	2500
1,2-Dichlorobenzene	ND	6200	ug/kg	2500
n-Butylbenzene	ND	6200	ug/kg	1800
1,2-Dibromo-3-chloro-propane	ND	12000	ug/kg	3800
1,2,4-Trichloro-benzene	ND	6200	ug/kg	1800
Hexachlorobutadiene	ND	6200	ug/kg	1800
1,2,3-Trichlorobenzene	ND	6200	ug/kg	1800
t-Butanol	ND	120000	ug/kg	62000
Isopropyl ether	ND	12000	ug/kg	2500
Tert-amyl methyl ether	ND	12000	ug/kg	2500
Tert-butyl ethyl ether	ND	12000	ug/kg	2500

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	0.0 SRD,NC	(60 - 140)
1,2-Dichloroethane-d4	0.0 SRD,NC	(60 - 140)
Toluene-d8	0.0 SRD,NC	(60 - 140)

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

NC The recovery and/or RPD were not calculated.

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_2

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-004 Work Order #...: ELG2T2AH Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1284264
Prep Date.....: 10/11/01 Analysis Date..: 10/15/01
Prep Batch #...: 1284523 Analysis Time..: 13:19
Dilution Factor: 1
Analyst ID.....: 010060 Instrument ID..: MSI
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	330	ug/kg	100
Acenaphthylene	ND	330	ug/kg	100
Anthracene	ND	330	ug/kg	80
Benzo(a)anthracene	ND	330	ug/kg	100
Benzo(b)fluoranthene	ND	330	ug/kg	100
Benzo(k)fluoranthene	ND	330	ug/kg	200
Benzo(ghi)perylene	ND	330	ug/kg	150
Benzo(a)pyrene	ND	330	ug/kg	70
Benzoic acid	ND	1600	ug/kg	500
Benzyl alcohol	ND	330	ug/kg	100
bis(2-Chloroethoxy) methane	ND	330	ug/kg	100
bis(2-Chloroethyl)-ether	ND	330	ug/kg	100
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	110
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	200
4-Bromophenyl phenyl ether	ND	330	ug/kg	80
Butyl benzyl phthalate	ND	330	ug/kg	100
Carbazole	ND	330	ug/kg	80
4-Chloroaniline	ND	330	ug/kg	150
4-Chloro-3-methylphenol	ND	330	ug/kg	100
2-Chloronaphthalene	ND	330	ug/kg	100
2-Chlorophenol	ND	330	ug/kg	150
4-Chlorophenyl phenyl ether	ND	330	ug/kg	90
Chrysene	ND	330	ug/kg	100
Dibenz(a,h)anthracene	ND	330	ug/kg	100
Dibenzofuran	ND	330	ug/kg	90
Di-n-butyl phthalate	ND	330	ug/kg	100
1,2-Dichlorobenzene	ND	330	ug/kg	130
1,3-Dichlorobenzene	ND	330	ug/kg	130
1,4-Dichlorobenzene	ND	330	ug/kg	130
3,3'-Dichlorobenzidine	ND	1600	ug/kg	400
2,4-Dichlorophenol	ND	330	ug/kg	90

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HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_2

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-004 Work Order #...: ELG2T2AH Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	330	ug/kg	100
2,4-Dimethylphenol	ND	330	ug/kg	100
Dimethyl phthalate	ND	330	ug/kg	80
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	300
2,4-Dinitrophenol	ND	1600	ug/kg	500
2,4-Dinitrotoluene	ND	330	ug/kg	100
2,6-Dinitrotoluene	ND	330	ug/kg	90
Di-n-octyl phthalate	ND	330	ug/kg	110
Fluoranthene	ND	330	ug/kg	70
Fluorene	ND	330	ug/kg	90
Hexachlorobenzene	ND	330	ug/kg	80
Hexachlorobutadiene	ND	330	ug/kg	100
Hexachlorocyclopentadiene	ND	1600	ug/kg	370
Hexachloroethane	ND	330	ug/kg	130
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	100
Isophorone	ND	330	ug/kg	100
2-Methylnaphthalene	ND	330	ug/kg	90
2-Methylphenol	ND	330	ug/kg	80
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	100
Naphthalene	ND	330	ug/kg	90
2-Nitroaniline	ND	1600	ug/kg	300
3-Nitroaniline	ND	1600	ug/kg	350
4-Nitroaniline	ND	1600	ug/kg	200
Nitrobenzene	ND	330	ug/kg	150
2-Nitrophenol	ND	330	ug/kg	100
4-Nitrophenol	ND	1600	ug/kg	400
N-Nitrosodiphenylamine	ND	330	ug/kg	80
N-Nitrosodi-n-propylamine	ND	330	ug/kg	90
Pentachlorophenol	ND	1600	ug/kg	420
Phenanthrene	ND	330	ug/kg	80
Phenol	ND	330	ug/kg	100
Pyrene	ND	330	ug/kg	120
1,2,4-Trichlorobenzene	ND	330	ug/kg	100
2,4,5-Trichlorophenol	ND	330	ug/kg	100
2,4,6-Trichlorophenol	ND	330	ug/kg	70

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HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_2

GC/MS Semivolatiles

Lot-Sample #...: E1J030176-004 Work Order #...: ELG2T2AH Matrix.....: SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	53	(40 - 130)
2-Fluorophenol	56	(50 - 115)
2,4,6-Tribromophenol	77	(30 - 115)
Nitrobenzene-d5	49	(45 - 115)
Phenol-d5	59	(50 - 120)
Terphenyl-d14	64	(50 - 140)

HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_1

TOTAL Metals

Lot-Sample #...: E1J030176-001 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1277280						
Aluminum	5950 J	20.0	mg/kg	SW846 6010B	10/04/01	ELG2J1AG
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 8.0	
Arsenic	4.5	1.0	mg/kg	SW846 6010B	10/04/01	ELG2J1AH
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/04-10/05/01	ELG2J1AJ
		Dilution Factor: 1		Analysis Time..: 14:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.60	
Barium	44.8	2.0	mg/kg	SW846 6010B	10/04/01	ELG2J1AK
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/04/01	ELG2J1AL
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.060	
Chromium	10.7 J	1.0	mg/kg	SW846 6010B	10/04/01	ELG2J1AM
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.10	
Beryllium	0.18 B	0.50	mg/kg	SW846 6010B	10/04/01	ELG2J1AN
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.050	
Lead	2.2	0.50	mg/kg	SW846 6010B	10/04/01	ELG2J1AP
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/04/01	ELG2J1AQ
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/04/01	ELG2J1AR
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_1

TOTAL Metals

Lot-Sample #...: E1J030176-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	3.9 B	5.0	mg/kg	SW846 6010B	10/04/01	ELG2J1AT
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.10	
Copper	5.8	2.5	mg/kg	SW846 6010B	10/04/01	ELG2J1AU
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.40	
Molybdenum	0.60 B	4.0	mg/kg	SW846 6010B	10/04/01	ELG2J1AV
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.30	
Nickel	7.3	4.0	mg/kg	SW846 6010B	10/04/01	ELG2J1AW
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/04/01	ELG2J1AX
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.80	
Vanadium	19.3	5.0	mg/kg	SW846 6010B	10/04/01	ELG2J1A0
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 0.10	
Zinc	20.5	2.0	mg/kg	SW846 6010B	10/04/01	ELG2J1A1
		Dilution Factor: 1		Analysis Time..: 20:36	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1277128	MDL.....: 1.0	

Prep Batch #...: 1278216

Mercury	ND	0.10	mg/kg	SW846 7471A	10/05/01	ELG2J1A2
		Dilution Factor: 1		Analysis Time..: 13:58	Analyst ID.....: 0000238	
		Instrument ID..: M04		MS Run #.....: 1278099	MDL.....: 0.020	

NOTE(S):

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

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_2

TOTAL Metals

Lot-Sample #...: E1J030176-002 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1278213						
Arsenic	**4.2**	**1.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2Q1AL**
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.40	
Aluminum	**7420**	**20.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2Q1AK**
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 8.0	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/05/01	ELG2Q1AM
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.60	
Barium	**37.9**	**2.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2Q1AN**
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/05/01	ELG2Q1AP
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.060	
Chromium	**13.6**	**1.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2Q1AQ**
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Beryllium	**0.25 B**	**0.50**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2Q1AR**
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.050	
Lead	**2.1**	**0.50**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2Q1AT**
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.30	
Selenium	**0.56**	**0.50**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2Q1AU**
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/05/01	ELG2Q1AV
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_21_100201_2

TOTAL Metals

Lot-Sample #...: E1J030176-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	4.5 B	5.0	mg/kg	SW846 6010B	10/05/01	ELG2Q1AW
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Copper	6.3	2.5	mg/kg	SW846 6010B	10/05/01	ELG2Q1AX
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.40	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	10/05/01	ELG2Q1A0
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.30	
Nickel	8.8	4.0	mg/kg	SW846 6010B	10/05/01	ELG2Q1A1
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/05/01	ELG2Q1A2
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.80	
Vanadium	23.5	5.0	mg/kg	SW846 6010B	10/05/01	ELG2Q1AA
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Zinc	27.7	2.0	mg/kg	SW846 6010B	10/05/01	ELG2Q1AC
		Dilution Factor: 1		Analysis Time..: 21:59	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 1.0	
Prep Batch #...: 1278216						
Mercury	ND	0.10	mg/kg	SW846 7471A	10/05/01	ELG2Q1AD
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 0000238	
		Instrument ID..: M04		MS Run #.....: 1278099	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_1

TOTAL Metals

Lot-Sample #...: E1J030176-003 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1278213						
Aluminum	**11500**	**20.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2R1AK**
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 8.0	
Arsenic	**15.7**	**1.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2R1AL**
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/05/01	ELG2R1AM
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.60	
Barium	**77.7**	**2.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2R1AN**
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/05/01	ELG2R1AP
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.060	
Chromium	**14.2**	**1.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2R1AQ**
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Beryllium	**0.78**	**0.50**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2R1AR**
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.050	
Lead	**14.8**	**0.50**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2R1AT**
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/05/01	ELG2R1AU
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/05/01	ELG2R1AV
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_1

TOTAL Metals

Lot-Sample #...: E1J030176-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	4.4 B	5.0	mg/kg	SW846 6010B	10/05/01	ELG2R1AW
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Copper	14.8	2.5	mg/kg	SW846 6010B	10/05/01	ELG2R1AX
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.40	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	10/05/01	ELG2R1A0
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.30	
Nickel	8.4	4.0	mg/kg	SW846 6010B	10/05/01	ELG2R1A1
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/05/01	ELG2R1A2
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.80	
Vanadium	20.9	5.0	mg/kg	SW846 6010B	10/05/01	ELG2R1AA
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Zinc	56.8	2.0	mg/kg	SW846 6010B	10/05/01	ELG2R1AC
		Dilution Factor: 1		Analysis Time..: 22:49	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 1.0	
Prep Batch #...: 1278216						
Mercury	ND	0.10	mg/kg	SW846 7471A	10/05/01	ELG2R1AD
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 0000238	
		Instrument ID..: M04		MS Run #.....: 1278099	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_2

TOTAL Metals

Lot-Sample #...: E1J030176-004 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1278213						
Aluminum	**19600**	**20.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2T1AK**
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 8.0	
Arsenic	**5.4**	**1.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2T1AL**
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/05/01	ELG2T1AM
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.60	
Barium	**121**	**2.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2T1AN**
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/05/01	ELG2T1AP
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.060	
Chromium	**24.4**	**1.0**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2T1AQ**
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Beryllium	**0.74**	**0.50**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2T1AR**
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.050	
Lead	**8.1**	**0.50**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2T1AT**
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.30	
Selenium	**0.57**	**0.50**	**mg/kg**	**SW846 6010B**	**10/05/01**	**ELG2T1AU**
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/05/01	ELG2T1AV
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: SP_23_100201_2

TOTAL Metals

Lot-Sample #...: E1J030176-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	9.1	5.0	mg/kg	SW846 6010B	10/05/01	ELG2T1AW
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Copper	23.3	2.5	mg/kg	SW846 6010B	10/05/01	ELG2T1AX
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.40	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	10/05/01	ELG2T1A0
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.30	
Nickel	17.4	4.0	mg/kg	SW846 6010B	10/05/01	ELG2T1A1
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/05/01	ELG2T1A2
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.80	
Vanadium	45.8	5.0	mg/kg	SW846 6010B	10/05/01	ELG2T1AA
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 0.10	
Zinc	150	2.0	mg/kg	SW846 6010B	10/05/01	ELG2T1AC
		Dilution Factor: 1		Analysis Time..: 22:57	Analyst ID.....: 0210888	
		Instrument ID..: M01		MS Run #.....: 1278098	MDL.....: 1.0	
Prep Batch #...: 1278216						
Mercury	0.040 B	0.10	mg/kg	SW846 7471A	10/05/01	ELG2T1AD
		Dilution Factor: 1		Analysis Time..: 14:07	Analyst ID.....: 0000238	
		Instrument ID..: M04		MS Run #.....: 1278099	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

SEVERN TRENT SERVICES

QA/QC

QC DATA ASSOCIATION SUMMARY

E1J030176

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		1277315	1277146
	SOLID	SW846 8015B		1278360	1278202
	SOLID	SW846 7471A		1278216	1278099
	SOLID	SW846 8260B		1281439	1281228
	SOLID	SW846 8270C		1277539	1277294
	SOLID	SW846 6010B		1277280	1277128
002	SOLID	SW846 8015B		1277315	1277146
	SOLID	SW846 8015B		1278360	1278202
	SOLID	SW846 7471A		1278216	1278099
	SOLID	SW846 8260B		1281439	1281228
	SOLID	SW846 8270C		1277539	1277294
	SOLID	SW846 6010B		1278213	1278098
003	SOLID	SW846 8015B		1277315	1277146
	SOLID	SW846 8015B		1278360	1278202
	SOLID	SW846 7471A		1278216	1278099
	SOLID	SW846 8260B		1281436	1281224
	SOLID	SW846 8270C		1277539	1277294
	SOLID	SW846 6010B		1278213	1278098
004	SOLID	SW846 8015B		1277315	1277146
	SOLID	SW846 8015B		1278359	
	SOLID	SW846 7471A		1278216	1278099
	SOLID	SW846 8260B		1281436	1281224
	SOLID	SW846 8270C		1284523	1284264
	SOLID	SW846 6010B		1278213	1278098

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1J030176
MB Lot-Sample #: E1J040000-315

Analysis Date..: 10/05/01
Dilution Factor: 1

Work Order #...: ELKAM1AA

Prep Date.....: 10/04/01
Prep Batch #...: 1277315

Analyst ID.....: 356074

Matrix.....: SOLID

Analysis Time..: 02:46
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	91	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176
MB Lot-Sample #: E1J040000-539

Work Order #...: ELLJD1AA

Matrix.....: SOLID

Prep Date.....: 10/04/01

Analysis Time..: 09:22

Analysis Date..: 10/11/01

Prep Batch #...: 1277539

Instrument ID..: MSI

Dilution Factor: 1

Analyst ID.....: 010060

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELLJD1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	81	(40 - 130)
2-Fluorophenol	90	(50 - 115)
2,4,6-Tribromophenol	98	(30 - 115)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELLJD1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene-d5	77	(45 - 115)		
Phenol-d5	94	(50 - 120)		
Terphenyl-d14	97	(50 - 140)		

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1J030176
MB Lot-Sample #: E1J050000-359

Analysis Date..: 10/05/01
Dilution Factor: 1

Work Order #...: ELNC81AA

Prep Date.....: 10/05/01
Prep Batch #...: 1278359

Analyst ID.....: 001464

Matrix.....: SOLID

Analysis Time..: 08:03
Instrument ID..: G15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C6-C8	7.4 J	10	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	99	(60 - 130)

NOTE(S):

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

J Estimated result. Result is less than RL.

Unknown hydrocarbon

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1J030176
MB Lot-Sample #: E1J050000-360

Analysis Date..: 10/04/01
Dilution Factor: 1

Work Order #...: ELNDF1AA

Prep Date.....: 10/04/01
Prep Batch #...: 1278360

Analyst ID.....: 001464

Matrix.....: SOLID

Analysis Time..: 16:51
Instrument ID..: G15

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)	71	(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 #...: E1J030176
MB Lot-Sample #: E1J080000-436

Analysis Date..: 10/04/01
Dilution Factor: 1

Work Order #...: ELRED1AA

Prep Date.....: 10/04/01
Prep Batch #...: 1281436

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 18:59
Instrument ID..: MSD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	500	ug/kg	SW846 8260B
Chloromethane	ND	500	ug/kg	SW846 8260B
Vinyl chloride	ND	500	ug/kg	SW846 8260B
Bromomethane	ND	500	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
Chloroethane	ND	500	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	500	ug/kg	SW846 8260B
Acrolein	ND	5000	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
Iodomethane	ND	500	ug/kg	SW846 8260B
Acetone	ND	1200	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
Acrylonitrile	ND	5000	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
Vinyl acetate	ND	500	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	1200	ug/kg	SW846 8260B
Bromochloromethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	250	ug/kg	SW846 8260B
Tetrahydrofuran	ND	1000	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Benzene	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	250	ug/kg	SW846 8260B
Trichloroethene	ND	250	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	500	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1200	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
2-Hexanone	ND	1200	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1J030176 Work Order #...: ELRED1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	250	ug/kg	SW846 8260B
Styrene	ND	500	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	250	ug/kg	SW846 8260B
Bromobenzene	ND	250	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	250	ug/kg	SW846 8260B
n-Propylbenzene	ND	250	ug/kg	SW846 8260B
2-Chlorotoluene	ND	250	ug/kg	SW846 8260B
4-Chlorotoluene	ND	250	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
tert-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
sec-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
n-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	250	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	250	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	250	ug/kg	SW846 8260B
t-Butanol	ND	5000	ug/kg	SW846 8260B
Isopropyl ether	ND	500	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	500	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	500	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(60 - 140)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	102	(60 - 140)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1J030176
MB Lot-Sample #: E1J080000-439

Analysis Date..: 10/04/01
Dilution Factor: 1

Work Order #...: ELRE61AA

Prep Date.....: 10/04/01
Prep Batch #...: 1281439

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 14:06
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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1J030176 Work Order #...: ELRE61AA 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	96	(70 - 130)
1,2-Dichloroethane-d4	72	(60 - 140)
Toluene-d8	87	(70 - 130)

NOTE(S):

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

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GC/MS Semivolatiles

Client Lot #...: E1J030176
MB Lot-Sample #: E1J110000-523

Analysis Date..: 10/15/01
Dilution Factor: 1

Work Order #...: EL1X71AA

Prep Date.....: 10/11/01
Prep Batch #...: 1284523

Analyst ID.....: 010060

Matrix.....: SOLID

Analysis Time..: 11:46
Instrument ID..: MSI

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C

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GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: EL1X71AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	67	(40 - 130)
2-Fluorophenol	61	(50 - 115)
2,4,6-Tribromophenol	64	(30 - 115)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: EL1X71AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene-d5	47	(45 - 115)		
Phenol-d5	62	(50 - 120)		
Terphenyl-d14	63	(50 - 140)		

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1J040000-280 Prep Batch #...: 1277280						
Aluminum	14.7 B	20.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AA
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AC
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/04-10/05/01	ELJ1T1AD
		Dilution Factor: 1				
		Analysis Time..: 14:29		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AE
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/04/01	ELJ1T1AF
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	0.12 B	1.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AG
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	10/04/01	ELJ1T1AH
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	10/04/01	ELJ1T1AJ
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/04/01	ELJ1T1AK
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AL
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AM
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	10/04/01	ELJ1T1AN
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AP
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AQ
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AR
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AT
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	10/04/01	ELJ1T1AU
		Dilution Factor: 1				
		Analysis Time..: 20:19		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E1J050000-213 Prep Batch #...: 1278213

Aluminum	ND	20.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AD
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AE
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AF
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AG
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/05/01	ELL8D1AH
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	ND	1.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AJ
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	10/05/01	ELL8D1AK
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	10/05/01	ELL8D1AL
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/05/01	ELL8D1AM
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AN
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AP
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	ND	2.5	mg/kg	SW846 6010B	10/05/01	ELL8D1AQ
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AR
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AT
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AU
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AA
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	10/05/01	ELL8D1AC
		Dilution Factor: 1				
		Analysis Time..: 21:43		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1J050000-216 Prep Batch #...: 1278216						
Mercury	ND	0.10	mg/kg	SW846 7471A	10/05/01	ELL8H1AA

Dilution Factor: 1

Analysis Time...: 13:55 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 Volatiles

Client Lot #...: E1J030176 Work Order #...: ELNC81AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: E1J050000-359 ELNC81AD-LCSD
Prep Date.....: 10/05/01 Analysis Date..: 10/05/01
Prep Batch #...: 1278359 Analysis Time..: 07:10
Dilution Factor: 1 Instrument ID..: G15
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	50.0	59.5	mg/kg	119		SW846 8015B
	50.0	62.8	mg/kg	126	5.4	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	126	(60 - 130)
	128	(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 Volatiles

Client Lot #...: E1J030176
LCS Lot-Sample#: E1J050000-359
Prep Date.....: 10/05/01
Prep Batch #...: 1278359
Dilution Factor: 1
Analyst ID.....: 001464

Work Order #...: ELNC81AC-LCS
ELNC81AD-LCSD
Analysis Date..: 10/05/01
Analysis Time..: 07:10
Instrument ID..: G15

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	119	(80 - 140)			SW846 8015B
	126	(80 - 140)	5.4	(0-40)	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	126	(60 - 130)
	128	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELKAM1AC Matrix.....: SOLID
LCS Lot-Sample#: E1J040000-315
Prep Date.....: 10/04/01 Analysis Date..: 10/05/01
Prep Batch #...: 1277315 Analysis Time..: 03:25
Dilution Factor: 1 Instrument ID..: G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	250	235	mg/kg	94	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	86	(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 Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELLJD1AC Matrix.....: SOLID
LCS Lot-Sample#: E1J040000-539
Prep Date.....: 10/04/01 Analysis Date..: 10/11/01
Prep Batch #...: 1277539 Analysis Time..: 00:18
Dilution Factor: 1 Instrument ID..: MSI
Analyst ID.....: 010060

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**3330**	**2820**	**ug/kg**	**85**	**SW846 8270C**
4-Chloro-3-methylphenol	**5000**	**3800**	**ug/kg**	**76**	**SW846 8270C**
2-Chlorophenol	**5000**	**3830**	**ug/kg**	**77**	**SW846 8270C**
1,4-Dichlorobenzene	**3330**	**2190**	**ug/kg**	**66**	**SW846 8270C**
2,4-Dinitrotoluene	**3330**	**3180**	**ug/kg**	**95**	**SW846 8270C**
4-Nitrophenol	**5000**	**3610**	**ug/kg**	**72**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**3330**	**2280**	**ug/kg**	**68**	**SW846 8270C**
Pentachlorophenol	**5000**	**2890**	**ug/kg**	**58**	**SW846 8270C**
Phenol	**5000**	**3160**	**ug/kg**	**63**	**SW846 8270C**
Pyrene	**3330**	**3780**	**ug/kg**	**114**	**SW846 8270C**
1,2,4-Trichloro-benzene	**3330**	**2480**	**ug/kg**	**74**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	73	(40 - 130)
2-Fluorophenol	68	(50 - 115)
2,4,6-Tribromophenol	46	(30 - 115)
Nitrobenzene-d5	63	(45 - 115)
Phenol-d5	68	(50 - 120)
Terphenyl-d14	100	(50 - 140)

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 #...: E1J030176 Work Order #...: ELNDF1AC Matrix.....: SOLID
LCS Lot-Sample#: E1J050000-360
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1278360 Analysis Time..: 20:16
Dilution Factor: 1 Instrument ID..: G15
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	5.00	**4.32**	mg/kg	**86**	**SW846 8015B**

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

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1J030176
LCS Lot-Sample#: E1J080000-436
Prep Date.....: 10/04/01
Prep Batch #...: 1281436
Dilution Factor: 1
Analyst ID.....: 999998

Work Order #...: ELRED1AC
Analysis Date..: 10/04/01
Analysis Time..: 17:56
Instrument ID..: MSD

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	2500	2170	ug/kg	87	SW846 8260B
Benzene	2500	2340	ug/kg	94	SW846 8260B
Trichloroethene	2500	2320	ug/kg	93	SW846 8260B
Toluene	2500	2260	ug/kg	91	SW846 8260B
Chlorobenzene	2500	2240	ug/kg	90	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(60 - 140)
1,2-Dichloroethane-d4	96	(60 - 140)
Toluene-d8	102	(60 - 140)

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 #...: E1J030176 Work Order #...: ELRE61AC Matrix.....: SOLID
LCS Lot-Sample#: E1J080000-439
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1281439 Analysis Time..: 09:34
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	50.0	50.6	ug/kg	101	SW846 8260B
Benzene	50.0	54.2	ug/kg	108	SW846 8260B
Trichloroethene	50.0	55.8	ug/kg	112	SW846 8260B
Toluene	50.0	51.9	ug/kg	104	SW846 8260B
Chlorobenzene	50.0	48.8	ug/kg	98	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(70 - 130)
1,2-Dichloroethane-d4	80	(60 - 140)
Toluene-d8	90	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: EL1X71AC Matrix.....: SOLID
LCS Lot-Sample#: E1J110000-523
Prep Date.....: 10/11/01 Analysis Date..: 10/15/01
Prep Batch #...: 1284523 Analysis Time..: 12:48
Dilution Factor: 1 Instrument ID..: MSI
Analyst ID.....: 010060

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	3330	3160	ug/kg	95	SW846 8270C
4-Chloro-3-methylphenol	5000	3660	ug/kg	73	SW846 8270C
2-Chlorophenol	5000	3770	ug/kg	75	SW846 8270C
1,4-Dichlorobenzene	3330	2190	ug/kg	66	SW846 8270C
2,4-Dinitrotoluene	3330	3590	ug/kg	108	SW846 8270C
4-Nitrophenol	5000	3680	ug/kg	74	SW846 8270C
N-Nitrosodi-n-propyl-amine	3330	2200	ug/kg	66	SW846 8270C
Pentachlorophenol	5000	3610	ug/kg	72	SW846 8270C
Phenol	5000	3260	ug/kg	65	SW846 8270C
Pyrene	3330	2470	ug/kg	74	SW846 8270C
1,2,4-Trichloro-benzene	3330	2440	ug/kg	73	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	87	(40 - 130)
2-Fluorophenol	74	(50 - 115)
2,4,6-Tribromophenol	90	(30 - 115)
Nitrobenzene-d5	72	(45 - 115)
Phenol-d5	70	(50 - 120)
Terphenyl-d14	76	(50 - 140)

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 #...: E1J030176 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1J040000-280 Prep Batch #...: 1277280							
Aluminum	200	179	mg/kg	90	SW846 6010B	10/04/01	ELJ1T1AV
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	200	175	mg/kg	88	SW846 6010B	10/04/01	ELJ1T1AW
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	46.1	mg/kg	92	SW846 6010B	10/04-10/05/01	ELJ1T1AX
			Dilution Factor: 1				
			Analysis Time..: 14:16		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	202	mg/kg	101	SW846 6010B	10/04/01	ELJ1T1A0
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	4.81	mg/kg	96	SW846 6010B	10/04/01	ELJ1T1A1
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	19.5	mg/kg	98	SW846 6010B	10/04/01	ELJ1T1A2
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	4.79	mg/kg	96	SW846 6010B	10/04/01	ELJ1T1A3
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	44.3	mg/kg	89	SW846 6010B	10/04/01	ELJ1T1A4
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	161	mg/kg	81	SW846 6010B	10/04/01	ELJ1T1A5
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.47	mg/kg	89	SW846 6010B	10/04/01	ELJ1T1A6
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	47.0	mg/kg	94	SW846 6010B	10/04/01	ELJ1T1A7
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	23.9	mg/kg	96	SW846 6010B	10/04/01	ELJ1T1A8
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	93.7	mg/kg	94	SW846 6010B	10/04/01	ELJ1T1A9
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	49.0	mg/kg	98	SW846 6010B	10/04/01	ELJ1T1CA
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	174	mg/kg	87	SW846 6010B	10/04/01	ELJ1T1CC
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	48.1	mg/kg	96	SW846 6010B	10/04/01	ELJ1T1CD
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	46.3	mg/kg	93	SW846 6010B	10/04/01	ELJ1T1CE
			Dilution Factor: 1				
			Analysis Time..: 20:26		Analyst ID.....: 021088	Instrument ID..: M01	
LCS Lot-Sample#: E1J050000-213 Prep Batch #...: 1278213							
Aluminum	200	181	mg/kg	90	SW846 6010B	10/05/01	ELL8D1AX
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	200	192	mg/kg	96	SW846 6010B	10/05/01	ELL8D1A0
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	45.5	mg/kg	91	SW846 6010B	10/05/01	ELL8D1A1
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	198	mg/kg	99	SW846 6010B	10/05/01	ELL8D1A2
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	5.00	5.04	mg/kg	101	SW846 6010B	10/05/01	ELL8D1A3
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	21.3	mg/kg	107	SW846 6010B	10/05/01	ELL8D1A4
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	5.20	mg/kg	104	SW846 6010B	10/05/01	ELL8D1A5
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	47.3	mg/kg	95	SW846 6010B	10/05/01	ELL8D1A6
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	180	mg/kg	90	SW846 6010B	10/05/01	ELL8D1A7
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.92	mg/kg	98	SW846 6010B	10/05/01	ELL8D1A8
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	50.0	50.8	mg/kg	102	SW846 6010B	10/05/01	ELL8D1A9
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	24.1	mg/kg	96	SW846 6010B	10/05/01	ELL8D1CA
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	98.5	mg/kg	98	SW846 6010B	10/05/01	ELL8D1CC
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	51.8	mg/kg	104	SW846 6010B	10/05/01	ELL8D1CD
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	184	mg/kg	92	SW846 6010B	10/05/01	ELL8D1CE
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	50.0	51.7	mg/kg	103	SW846 6010B	10/05/01	ELL8D1AV
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	51.1	mg/kg	102	SW846 6010B	10/05/01	ELL8D1AW
			Dilution Factor: 1				
			Analysis Time..: 21:49		Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E1J050000-216 Prep Batch #...: 1278216

Mercury	0.833	0.840	mg/kg	101	SW846 7471A	10/05/01	ELL8H1AC
			Dilution Factor: 1				
			Analysis Time..: 13:57		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 #...: E1J030176 Work Order #...: ELKAM1AC Matrix.....: SOLID
LCS Lot-Sample#: E1J040000-315
Prep Date.....: 10/04/01 Analysis Date..: 10/05/01
Prep Batch #...: 1277315 Analysis Time..: 03:25
Dilution Factor: 1 Instrument ID..: G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**94**	**(60 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	86	(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 Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELLJD1AC Matrix.....: SOLID
LCS Lot-Sample#: E1J040000-539
Prep Date.....: 10/04/01 Analysis Date..: 10/11/01
Prep Batch #...: 1277539 Analysis Time..: 00:18
Dilution Factor: 1 Instrument ID..: MSI
Analyst ID.....: 010060

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	85	(50 - 125)	SW846 8270C
4-Chloro-3-methylphenol	76	(50 - 110)	SW846 8270C
2-Chlorophenol	77	(50 - 120)	SW846 8270C
1,4-Dichlorobenzene	66	(40 - 115)	SW846 8270C
2,4-Dinitrotoluene	95	(40 - 120)	SW846 8270C
4-Nitrophenol	72	(10 - 120)	SW846 8270C
N-Nitrosodi-n-propyl-amine	68	(40 - 120)	SW846 8270C
Pentachlorophenol	58	(20 - 130)	SW846 8270C
Phenol	63	(40 - 110)	SW846 8270C
Pyrene	114	(50 - 140)	SW846 8270C
1,2,4-Trichloro-benzene	74	(50 - 115)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	73	(40 - 130)
2-Fluorophenol	68	(50 - 115)
2,4,6-Tribromophenol	46	(30 - 115)
Nitrobenzene-d5	63	(45 - 115)
Phenol-d5	68	(50 - 120)
Terphenyl-d14	100	(50 - 140)

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 #...: E1J030176
LCS Lot-Sample#: E1J050000-360
Prep Date.....: 10/04/01
Prep Batch #...: 1278360
Dilution Factor: 1
Analyst ID.....: 001464

Work Order #...: ELNDF1AC
Analysis Date..: 10/04/01
Analysis Time..: 20:16
Instrument ID..: G15

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**86**	**(80 - 140)**	**SW846 8015B**

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

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1J030176 Work Order #...: ELRED1AC Matrix.....: SOLID
LCS Lot-Sample#: E1J080000-436
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1281436 Analysis Time..: 17:56
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**87**	**(60 - 140)**	**SW846 8260B**
Benzene	**94**	**(60 - 130)**	**SW846 8260B**
Trichloroethene	**93**	**(60 - 140)**	**SW846 8260B**
Toluene	**91**	**(60 - 130)**	**SW846 8260B**
Chlorobenzene	**90**	**(60 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(60 - 140)
1,2-Dichloroethane-d4	96	(60 - 140)
Toluene-d8	102	(60 - 140)

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 #...: E1J030176 Work Order #...: ELRE61AC Matrix.....: SOLID
LCS Lot-Sample#: E1J080000-439
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1281439 Analysis Time..: 09:34
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**101**	**(60 - 150)**	**SW846 8260B**
Benzene	**108**	**(70 - 140)**	**SW846 8260B**
Trichloroethene	**112**	**(70 - 130)**	**SW846 8260B**
Toluene	**104**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**98**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(70 - 130)
1,2-Dichloroethane-d4	80	(60 - 140)
Toluene-d8	90	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: EL1X71AC Matrix.....: SOLID
LCS Lot-Sample#: E1J110000-523
Prep Date.....: 10/11/01 Analysis Date..: 10/15/01
Prep Batch #...: 1284523 Analysis Time..: 12:48
Dilution Factor: 1 Instrument ID..: MSI
Analyst ID.....: 010060

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**95**	**(50 - 125)**	**SW846 8270C**
4-Chloro-3-methylphenol	**73**	**(50 - 110)**	**SW846 8270C**
2-Chlorophenol	**75**	**(50 - 120)**	**SW846 8270C**
1,4-Dichlorobenzene	**66**	**(40 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**108**	**(40 - 120)**	**SW846 8270C**
4-Nitrophenol	**74**	**(10 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**66**	**(40 - 120)**	**SW846 8270C**
Pentachlorophenol	**72**	**(20 - 130)**	**SW846 8270C**
Phenol	**65**	**(40 - 110)**	**SW846 8270C**
Pyrene	**74**	**(50 - 140)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**73**	**(50 - 115)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	87	(40 - 130)
2-Fluorophenol	74	(50 - 115)
2,4,6-Tribromophenol	90	(30 - 115)
Nitrobenzene-d5	72	(45 - 115)
Phenol-d5	70	(50 - 120)
Terphenyl-d14	76	(50 - 140)

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 #...: E1J030176 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1J040000-280 Prep Batch #...: 1277280					
Aluminum	90	(70 - 115)	SW846 6010B	10/04/01	ELJ1T1AV
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Arsenic	88	(75 - 115)	SW846 6010B	10/04/01	ELJ1T1AW
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Antimony	92	(75 - 115)	SW846 6010B	10/04-10/05/01	ELJ1T1AX
		Dilution Factor: 1			
		Analysis Time..: 14:16	Analyst ID.....: 021088		Instrument ID..: M01
Barium	101	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1A0
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Cadmium	96	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1A1
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Chromium	98	(85 - 120)	SW846 6010B	10/04/01	ELJ1T1A2
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Beryllium	96	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1A3
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Lead	89	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1A4
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Selenium	81	(70 - 115)	SW846 6010B	10/04/01	ELJ1T1A5
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Silver	89	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1A6
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	94	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1A7
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Copper	96	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1A8
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Molybdenum	94	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1A9
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Nickel	98	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1CA
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Thallium	87	(75 - 125)	SW846 6010B	10/04/01	ELJ1T1CC
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Vanadium	96	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1CD
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
Zinc	93	(80 - 120)	SW846 6010B	10/04/01	ELJ1T1CE
		Dilution Factor: 1			
		Analysis Time..: 20:26	Analyst ID.....: 021088		Instrument ID..: M01
LCS Lot-Sample#:	E1J050000-213	Prep Batch #...: 1278213			
Aluminum	90	(70 - 115)	SW846 6010B	10/05/01	ELL8D1AX
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Arsenic	96	(75 - 115)	SW846 6010B	10/05/01	ELL8D1A0
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Antimony	91	(75 - 115)	SW846 6010B	10/05/01	ELL8D1A1
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Barium	99	(80 - 120)	SW846 6010B	10/05/01	ELL8D1A2
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	101	(80 - 120)	SW846 6010B	10/05/01	ELL8D1A3
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Chromium	107	(85 - 120)	SW846 6010B	10/05/01	ELL8D1A4
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Beryllium	104	(80 - 120)	SW846 6010B	10/05/01	ELL8D1A5
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Lead	95	(80 - 120)	SW846 6010B	10/05/01	ELL8D1A6
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Selenium	90	(70 - 115)	SW846 6010B	10/05/01	ELL8D1A7
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Silver	98	(80 - 120)	SW846 6010B	10/05/01	ELL8D1A8
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Cobalt	102	(80 - 120)	SW846 6010B	10/05/01	ELL8D1A9
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Copper	96	(80 - 120)	SW846 6010B	10/05/01	ELL8D1CA
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Molybdenum	98	(80 - 120)	SW846 6010B	10/05/01	ELL8D1CC
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Nickel	104	(80 - 120)	SW846 6010B	10/05/01	ELL8D1CD
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Thallium	92	(75 - 125)	SW846 6010B	10/05/01	ELL8D1CE
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	103	(80 - 120)	SW846 6010B	10/05/01	ELL8D1AV
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
Zinc	102	(80 - 120)	SW846 6010B	10/05/01	ELL8D1AW
		Dilution Factor: 1			
		Analysis Time..: 21:49	Analyst ID.....: 021088		Instrument ID..: M01
LCS Lot-Sample#:	E1J050000-216	Prep Batch #...: 1278216			
Mercury	101	(85 - 115)	SW846 7471A	10/05/01	ELL8H1AC
		Dilution Factor: 1			
		Analysis Time..: 13:57	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 #...: E1J030176 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J030176-001 Prep Batch #...: 1277280										
Aluminum										
	5950	200	7340	NC	mg/kg			SW846 6010B	10/04/01	ELG2J1A3
	5950	200	7270	NC	mg/kg			SW846 6010B	10/04/01	ELG2J1A4
					Dilution Factor: 1					
					Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1277128					
Arsenic										
	4.5	200	179		mg/kg	87		SW846 6010B	10/04/01	ELG2J1A5
	4.5	200	179		mg/kg	87	0.28	SW846 6010B	10/04/01	ELG2J1A6
					Dilution Factor: 1					
					Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1277128					
Antimony										
	ND	50.0	11.9	N	mg/kg	24		SW846 6010B	10/04-10/05/01	ELG2J1A7
	ND	50.0	11.9	N	mg/kg	24	0.26	SW846 6010B	10/04-10/05/01	ELG2J1A8
					Dilution Factor: 1					
					Analysis Time..: 14:50			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1277128					
Barium										
	44.8	200	251		mg/kg	103		SW846 6010B	10/04/01	ELG2J1A9
	44.8	200	251		mg/kg	103	0.07	SW846 6010B	10/04/01	ELG2J1CA
					Dilution Factor: 1					
					Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1277128					
Cadmium										
	ND	5.00	4.38		mg/kg	88		SW846 6010B	10/04/01	ELG2J1CC
	ND	5.00	4.34		mg/kg	87	0.98	SW846 6010B	10/04/01	ELG2J1CD
					Dilution Factor: 1					
					Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1277128					
Chromium										
	10.7	20.0	31.3		mg/kg	103		SW846 6010B	10/04/01	ELG2J1CE
	10.7	20.0	30.9		mg/kg	101	1.3	SW846 6010B	10/04/01	ELG2J1CF
					Dilution Factor: 1					
					Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1277128					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.18	5.00	5.02	mg/kg	97		SW846 6010B	10/04/01	ELG2J1CG
	0.18	5.00	5.00	mg/kg	96	0.29	SW846 6010B	10/04/01	ELG2J1CH
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					
Lead									
	2.2	50.0	47.0	mg/kg	90		SW846 6010B	10/04/01	ELG2J1CJ
	2.2	50.0	47.0	mg/kg	90	0.06	SW846 6010B	10/04/01	ELG2J1CK
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					
Selenium									
	ND	200	161	mg/kg	80		SW846 6010B	10/04/01	ELG2J1CL
	ND	200	161	mg/kg	80	0.15	SW846 6010B	10/04/01	ELG2J1CM
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					
Silver									
	ND	5.00	4.27	mg/kg	85		SW846 6010B	10/04/01	ELG2J1CN
	ND	5.00	4.20	mg/kg	84	1.6	SW846 6010B	10/04/01	ELG2J1CP
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					
Cobalt									
	3.9	50.0	50.9	mg/kg	94		SW846 6010B	10/04/01	ELG2J1CQ
	3.9	50.0	50.5	mg/kg	93	0.92	SW846 6010B	10/04/01	ELG2J1CR
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					
Copper									
	5.8	25.0	32.6	mg/kg	107		SW846 6010B	10/04/01	ELG2J1CT
	5.8	25.0	32.3	mg/kg	106	0.69	SW846 6010B	10/04/01	ELG2J1CU
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J030176 **Matrix.....:** SOLID
Date Sampled...: 10/02/01 19:00 **Date Received..:** 10/02/01 21:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	0.60	100	91.0	mg/kg	90		SW846 6010B	10/04/01	ELG2J1CV
	0.60	100	90.4	mg/kg	90	0.67	SW846 6010B	10/04/01	ELG2J1CW
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					
Nickel									
	7.3	50.0	56.5	mg/kg	98		SW846 6010B	10/04/01	ELG2J1CX
	7.3	50.0	56.3	mg/kg	98	0.34	SW846 6010B	10/04/01	ELG2J1C0
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					
Thallium									
	ND	200	182	mg/kg	91		SW846 6010B	10/04/01	ELG2J1C1
	ND	200	179	mg/kg	90	1.2	SW846 6010B	10/04/01	ELG2J1C2
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					
Vanadium									
	19.3	50.0	69.3	mg/kg	100		SW846 6010B	10/04/01	ELG2J1C3
	19.3	50.0	68.7	mg/kg	99	0.86	SW846 6010B	10/04/01	ELG2J1C4
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					
Zinc									
	20.5	50.0	69.2	mg/kg	97		SW846 6010B	10/04/01	ELG2J1C5
	20.5	50.0	69.0	mg/kg	97	0.35	SW846 6010B	10/04/01	ELG2J1C6
				Dilution Factor: 1					
				Analysis Time..: 20:51		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1277128					

MS Lot-Sample #: E1J030176-001 **Prep Batch #...:** 1278216

Mercury									
	ND	0.167	0.182	mg/kg	109		SW846 7471A	10/05/01	ELG2J1C9
	ND	0.167	0.182	mg/kg	109	0.0	SW846 7471A	10/05/01	ELG2J1DA
				Dilution Factor: 1					
				Analysis Time..: 14:00		Instrument ID..: M04		Analyst ID.....: 000023	
				MS Run #.....: 1278099					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELG2J1C7-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-001 ELG2J1C8-MSD
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1277294
Prep Date.....: 10/04/01 Analysis Date..: 10/11/01
Prep Batch #...: 1277539 Analysis Time..: 01:23
Dilution Factor: 1 Analyst ID.....: 010060 Instrument ID..: MSI

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	ND	3330	2800	ug/kg	84		SW846 8270C
	ND	3330	2920	ug/kg	88	4.5	SW846 8270C
4-Chloro-3-methylphenol	ND	5000	3520	ug/kg	70		SW846 8270C
	ND	5000	3650	ug/kg	73	3.7	SW846 8270C
2-Chlorophenol	ND	5000	3620	ug/kg	72		SW846 8270C
	ND	5000	3790	ug/kg	76	4.6	SW846 8270C
1,4-Dichlorobenzene	ND	3330	2020	ug/kg	61		SW846 8270C
	ND	3330	2210	ug/kg	66	8.8	SW846 8270C
2,4-Dinitrotoluene	ND	3330	3080	ug/kg	93		SW846 8270C
	ND	3330	3120	ug/kg	94	1.1	SW846 8270C
4-Nitrophenol	ND	5000	3560	ug/kg	71		SW846 8270C
	ND	5000	3760	ug/kg	75	5.4	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	3330	2220	ug/kg	67		SW846 8270C
	ND	3330	2400	ug/kg	72	7.9	SW846 8270C
Pentachlorophenol	ND	5000	2550	ug/kg	51		SW846 8270C
	ND	5000	2760	ug/kg	55	7.8	SW846 8270C
Phenol	ND	5000	3070	ug/kg	61		SW846 8270C
	ND	5000	3220	ug/kg	64	4.7	SW846 8270C
Pyrene	ND	3330	3510	ug/kg	105		SW846 8270C
	ND	3330	3390	ug/kg	102	3.6	SW846 8270C
1,2,4-Trichloro-benzene	ND	3330	2260	ug/kg	68		SW846 8270C
	ND	3330	2400	ug/kg	72	5.7	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	67	(40 - 130)
	63	(40 - 130)
2-Fluorophenol	65	(50 - 115)
	63	(50 - 115)
2,4,6-Tribromophenol	48	(30 - 115)
	46	(30 - 115)
Nitrobenzene-d5	60	(45 - 115)
	57	(45 - 115)
Phenol-d5	66	(50 - 120)
	66	(50 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELG2J1C7-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-001 ELG2J1C8-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	90	(50 - 140)
	87	(50 - 140)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E1J030176 Work Order #...: ELG2J1DC-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-001 ELG2J1DD-MSD
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1278202
Prep Date.....: 10/04/01 Analysis Date..: 10/05/01
Prep Batch #...: 1278360 Analysis Time..: 03:21
Dilution Factor: 1 Analyst ID.....: 001464 Instrument ID..: G15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	ND	5.00	4.30	mg/kg	86		SW846 8015B
	ND	5.00	4.89	mg/kg	98	13	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	93	(60 - 130)
	99	(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 #...: E1J030176 Work Order #...: ELG2J1DL-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-001 ELG2J1DM-MSD
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1281228
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1281439 Analysis Time..: 15:47
Dilution Factor: 1 Analyst ID.....: 999998 Instrument ID..: MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	51.5	ug/kg	103		SW846 8260B
	ND	50.0	49.4	ug/kg	99	4.2	SW846 8260B
Benzene	ND	50.0	53.8	ug/kg	108		SW846 8260B
	ND	50.0	51.8	ug/kg	104	3.8	SW846 8260B
Trichloroethene	ND	50.0	58.1	ug/kg	116		SW846 8260B
	ND	50.0	57.9	ug/kg	116	0.46	SW846 8260B
Toluene	ND	50.0	48.3	ug/kg	97		SW846 8260B
	ND	50.0	46.4	ug/kg	93	4.0	SW846 8260B
Chlorobenzene	ND	50.0	45.9	ug/kg	92		SW846 8260B
	ND	50.0	45.0	ug/kg	90	1.9	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(70 - 130)
	94	(70 - 130)
1,2-Dichloroethane-d4	79	(60 - 140)
	78	(60 - 140)
Toluene-d8	89	(70 - 130)
	89	(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

TOTAL Metals

Client Lot #...: E1J030176 **Matrix.....:** SOLID
Date Sampled...: 10/02/01 19:00 **Date Received..:** 10/02/01 21:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J030176-002 **Prep Batch #...:** 1278213										
Aluminum										
	7420	200	7630	NC	mg/kg			SW846 6010B	10/05/01	ELG2Q1A9
	7420	200	7700	NC	mg/kg			SW846 6010B	10/05/01	ELG2Q1CA
					Dilution Factor: 1					
					Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1278098					
Arsenic										
	4.2	200	194		mg/kg	95		SW846 6010B	10/05/01	ELG2Q1CC
	4.2	200	191		mg/kg	93	1.4	SW846 6010B	10/05/01	ELG2Q1CD
					Dilution Factor: 1					
					Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1278098					
Antimony										
	ND	50.0	19.0	N	mg/kg	38		SW846 6010B	10/05/01	ELG2Q1CE
	ND	50.0	18.7	N	mg/kg	37	1.8	SW846 6010B	10/05/01	ELG2Q1CF
					Dilution Factor: 1					
					Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1278098					
Barium										
	37.9	200	226		mg/kg	94		SW846 6010B	10/05/01	ELG2Q1CG
	37.9	200	224		mg/kg	93	0.48	SW846 6010B	10/05/01	ELG2Q1CH
					Dilution Factor: 1					
					Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1278098					
Cadmium										
	ND	5.00	4.46		mg/kg	89		SW846 6010B	10/05/01	ELG2Q1CJ
	ND	5.00	4.42		mg/kg	88	0.83	SW846 6010B	10/05/01	ELG2Q1CK
					Dilution Factor: 1					
					Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1278098					
Chromium										
	13.6	20.0	34.0		mg/kg	102		SW846 6010B	10/05/01	ELG2Q1CL
	13.6	20.0	33.2		mg/kg	98	2.2	SW846 6010B	10/05/01	ELG2Q1CM
					Dilution Factor: 1					
					Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
					MS Run #.....: 1278098					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.25	5.00	5.31	mg/kg	101		SW846 6010B	10/05/01	ELG2Q1CN
	0.25	5.00	5.25	mg/kg	100	1.1	SW846 6010B	10/05/01	ELG2Q1CP
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					
Lead									
	2.1	50.0	49.2	mg/kg	94		SW846 6010B	10/05/01	ELG2Q1CQ
	2.1	50.0	48.6	mg/kg	93	1.2	SW846 6010B	10/05/01	ELG2Q1CR
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					
Selenium									
	0.56	200	179	mg/kg	89		SW846 6010B	10/05/01	ELG2Q1CT
	0.56	200	178	mg/kg	89	0.72	SW846 6010B	10/05/01	ELG2Q1CU
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					
Silver									
	ND	5.00	4.65	mg/kg	93		SW846 6010B	10/05/01	ELG2Q1CV
	ND	5.00	4.59	mg/kg	92	1.4	SW846 6010B	10/05/01	ELG2Q1CW
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					
Cobalt									
	4.5	50.0	53.6	mg/kg	98		SW846 6010B	10/05/01	ELG2Q1CX
	4.5	50.0	53.0	mg/kg	97	1.1	SW846 6010B	10/05/01	ELG2Q1C0
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					
Copper									
	6.3	25.0	29.8	mg/kg	94		SW846 6010B	10/05/01	ELG2Q1C1
	6.3	25.0	29.8	mg/kg	94	0.04	SW846 6010B	10/05/01	ELG2Q1C2
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J030176 **Matrix.....:** SOLID
Date Sampled...: 10/02/01 19:00 **Date Received..:** 10/02/01 21:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	ND	100	95.4	mg/kg	95		SW846 6010B	10/05/01	ELG2Q1C3
	ND	100	93.8	mg/kg	94	1.7	SW846 6010B	10/05/01	ELG2Q1C4
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					
Nickel									
	8.8	50.0	58.4	mg/kg	99		SW846 6010B	10/05/01	ELG2Q1C5
	8.8	50.0	57.6	mg/kg	97	1.4	SW846 6010B	10/05/01	ELG2Q1C6
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					
Thallium									
	ND	200	188	mg/kg	94		SW846 6010B	10/05/01	ELG2Q1C7
	ND	200	186	mg/kg	93	0.90	SW846 6010B	10/05/01	ELG2Q1C8
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					
Vanadium									
	23.5	50.0	73.3	mg/kg	100		SW846 6010B	10/05/01	ELG2Q1A5
	23.5	50.0	72.5	mg/kg	98	1.2	SW846 6010B	10/05/01	ELG2Q1A6
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					
Zinc									
	27.7	50.0	76.5	mg/kg	98		SW846 6010B	10/05/01	ELG2Q1A7
	27.7	50.0	76.5	mg/kg	98	0.06	SW846 6010B	10/05/01	ELG2Q1A8
				Dilution Factor: 1					
				Analysis Time..: 22:28		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1278098					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E1J030176	Work Order #...:	ELG2Q1A3-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1J030176-002		ELG2Q1A4-MSD		
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	1277146
Prep Date.....:	10/04/01	Analysis Date..:	10/05/01		
Prep Batch #...:	1277315	Analysis Time..:	05:23		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	ND	250	228	mg/kg	91		SW846 8015B
	ND	250	233	mg/kg	93	2.1	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	81	(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

GC/MS Volatiles

Client Lot #...: E1J030176 Work Order #...: ELG2R1A3-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-003 ELG2R1A4-MSD
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1281224
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1281436 Analysis Time..: 20:33
Dilution Factor: 8 Analyst ID.....: 999998 Instrument ID..: MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	2500	2460	ug/kg	98		SW846 8260B
	ND	2500	2620	ug/kg	105	6.1	SW846 8260B
Benzene	ND	2500	2430	ug/kg	97		SW846 8260B
	ND	2500	2480	ug/kg	99	1.8	SW846 8260B
Trichloroethene	ND	2500	2410	ug/kg	96		SW846 8260B
	ND	2500	2440	ug/kg	98	1.3	SW846 8260B
Toluene	17000	2500		ug/kg	0.0		SW846 8260B
	Qualifiers: NC,MSB						
	17000	2500		ug/kg	0.0	0.0	SW846 8260B
	Qualifiers: NC,MSB						
Chlorobenzene	ND	2500	2360	ug/kg	94		SW846 8260B
	ND	2500	2370	ug/kg	95	0.50	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(60 - 140)
	106	(60 - 140)
1,2-Dichloroethane-d4	101	(60 - 140)
	94	(60 - 140)
Toluene-d8	104	(60 - 140)
	111	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

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

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELG2T1A3-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-004 ELG2T1A4-MSD
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1284264
Prep Date.....: 10/11/01 Analysis Date..: 10/15/01
Prep Batch #...: 1284523 Analysis Time..: 13:52
Dilution Factor: 1 Analyst ID.....: 010060 Instrument ID..: MSI

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	ND	3330	2740	ug/kg	82		SW846 8270C
	ND	3330	2830	ug/kg	85	3.2	SW846 8270C
4-Chloro-3-methylphenol	ND	5000	3290	ug/kg	66		SW846 8270C
	ND	5000	3490	ug/kg	70	5.9	SW846 8270C
2-Chlorophenol	ND	5000	3720	ug/kg	74		SW846 8270C
	ND	5000	3420	ug/kg	68	8.4	SW846 8270C
1,4-Dichlorobenzene	ND	3330	1800	ug/kg	54		SW846 8270C
	ND	3330	1830	ug/kg	55	2.1	SW846 8270C
2,4-Dinitrotoluene	ND	3330	3130	ug/kg	94		SW846 8270C
	ND	3330	3150	ug/kg	95	0.82	SW846 8270C
4-Nitrophenol	ND	5000	3750	ug/kg	75		SW846 8270C
	ND	5000	4170	ug/kg	83	10	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	3330	2060	ug/kg	62		SW846 8270C
	ND	3330	2300	ug/kg	69	11	SW846 8270C
Pentachlorophenol	ND	5000	3100	ug/kg	62		SW846 8270C
	ND	5000	3100	ug/kg	62	0.09	SW846 8270C
Phenol	ND	5000	3440	ug/kg	69		SW846 8270C
	ND	5000	3220	ug/kg	64	6.6	SW846 8270C
Pyrene	ND	3330	2450	ug/kg	73		SW846 8270C
	ND	3330	2120	ug/kg	64	14	SW846 8270C
1,2,4-Trichloro-benzene	ND	3330	1940	ug/kg	58		SW846 8270C
	ND	3330	1910	ug/kg	57	1.5	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	58	(40 - 130)
	59	(40 - 130)
2-Fluorophenol	70	(50 - 115)
	65	(50 - 115)
2,4,6-Tribromophenol	76	(30 - 115)
	77	(30 - 115)
Nitrobenzene-d5	60	(45 - 115)
	63	(45 - 115)
Phenol-d5	69	(50 - 120)
	63	(50 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELG2T1A3-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-004 ELG2T1A4-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	65	(50 - 140)
	59	(50 - 140)

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 #...: E1J030176 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J030176-001 Prep Batch #...: 1277280							
Aluminum	NC	(70 - 115)			SW846 6010B	10/04/01	ELG2J1A3
	NC	(70 - 115)		(0-25)	SW846 6010B	10/04/01	ELG2J1A4
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Arsenic	87	(75 - 115)			SW846 6010B	10/04/01	ELG2J1A5
	87	(75 - 115)	0.28	(0-25)	SW846 6010B	10/04/01	ELG2J1A6
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Antimony	24 N	(75 - 115)			SW846 6010B	10/04-10/05/01	ELG2J1A7
	24 N	(75 - 115)	0.26	(0-25)	SW846 6010B	10/04-10/05/01	ELG2J1A8
		Dilution Factor: 1					
		Analysis Time..: 14:50			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Barium	103	(80 - 120)			SW846 6010B	10/04/01	ELG2J1A9
	103	(80 - 120)	0.07	(0-25)	SW846 6010B	10/04/01	ELG2J1CA
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Cadmium	88	(80 - 120)			SW846 6010B	10/04/01	ELG2J1CC
	87	(80 - 120)	0.98	(0-25)	SW846 6010B	10/04/01	ELG2J1CD
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Chromium	103	(85 - 120)			SW846 6010B	10/04/01	ELG2J1CE
	101	(85 - 120)	1.3	(0-25)	SW846 6010B	10/04/01	ELG2J1CF
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Beryllium	97	(80 - 120)			SW846 6010B	10/04/01	ELG2J1CG
	96	(80 - 120)	0.29	(0-25)	SW846 6010B	10/04/01	ELG2J1CH
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	90	(80 - 120)			SW846 6010B	10/04/01	ELG2J1CJ
	90	(80 - 120)	0.06	(0-25)	SW846 6010B	10/04/01	ELG2J1CK
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Selenium	80	(70 - 115)			SW846 6010B	10/04/01	ELG2J1CL
	80	(70 - 115)	0.15	(0-25)	SW846 6010B	10/04/01	ELG2J1CM
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Silver	85	(80 - 120)			SW846 6010B	10/04/01	ELG2J1CN
	84	(80 - 120)	1.6	(0-25)	SW846 6010B	10/04/01	ELG2J1CP
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Cobalt	94	(80 - 120)			SW846 6010B	10/04/01	ELG2J1CQ
	93	(80 - 120)	0.92	(0-25)	SW846 6010B	10/04/01	ELG2J1CR
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Copper	107	(80 - 120)			SW846 6010B	10/04/01	ELG2J1CT
	106	(80 - 120)	0.69	(0-25)	SW846 6010B	10/04/01	ELG2J1CU
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Molybdenum	90	(80 - 120)			SW846 6010B	10/04/01	ELG2J1CV
	90	(80 - 120)	0.67	(0-25)	SW846 6010B	10/04/01	ELG2J1CW
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Nickel	98	(80 - 120)			SW846 6010B	10/04/01	ELG2J1CX
	98	(80 - 120)	0.34	(0-25)	SW846 6010B	10/04/01	ELG2J1C0
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J030176 **Matrix.....:** SOLID
Date Sampled...: 10/02/01 19:00 **Date Received..:** 10/02/01 21:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	91	(75 - 125)			SW846 6010B	10/04/01	ELG2J1C1
	90	(75 - 125)	1.2	(0-25)	SW846 6010B	10/04/01	ELG2J1C2
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Vanadium	100	(80 - 120)			SW846 6010B	10/04/01	ELG2J1C3
	99	(80 - 120)	0.86	(0-25)	SW846 6010B	10/04/01	ELG2J1C4
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					
Zinc	97	(80 - 120)			SW846 6010B	10/04/01	ELG2J1C5
	97	(80 - 120)	0.35	(0-25)	SW846 6010B	10/04/01	ELG2J1C6
		Dilution Factor: 1					
		Analysis Time..: 20:51			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1277128					

MS Lot-Sample #: E1J030176-001 **Prep Batch #...:** 1278216

Mercury	109	(80 - 120)			SW846 7471A	10/05/01	ELG2J1C9
	109	(80 - 120)	0.0	(0-20)	SW846 7471A	10/05/01	ELG2J1DA
		Dilution Factor: 1					
		Analysis Time..: 14:00			Instrument ID..: M04	Analyst ID.....: 000023	
		MS Run #.....: 1278099					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELG2J1C7-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-001 ELG2J1C8-MSD
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1277294
Prep Date.....: 10/04/01 Analysis Date..: 10/11/01
Prep Batch #...: 1277539 Analysis Time..: 01:23
Dilution Factor: 1 Analyst ID.....: 010060 Instrument ID..: MSI

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	84	(50 - 125)			SW846 8270C
	88	(50 - 125)	4.5	(0-35)	SW846 8270C
4-Chloro-3-methylphenol	70	(50 - 110)			SW846 8270C
	73	(50 - 110)	3.7	(0-35)	SW846 8270C
2-Chlorophenol	72	(50 - 120)			SW846 8270C
	76	(50 - 120)	4.6	(0-35)	SW846 8270C
1,4-Dichlorobenzene	61	(40 - 115)			SW846 8270C
	66	(40 - 115)	8.8	(0-35)	SW846 8270C
2,4-Dinitrotoluene	93	(40 - 120)			SW846 8270C
	94	(40 - 120)	1.1	(0-35)	SW846 8270C
4-Nitrophenol	71	(10 - 120)			SW846 8270C
	75	(10 - 120)	5.4	(0-35)	SW846 8270C
N-Nitrosodi-n-propyl-amine	67	(40 - 120)			SW846 8270C
	72	(40 - 120)	7.9	(0-35)	SW846 8270C
Pentachlorophenol	51	(20 - 130)			SW846 8270C
	55	(20 - 130)	7.8	(0-35)	SW846 8270C
Phenol	61	(40 - 110)			SW846 8270C
	64	(40 - 110)	4.7	(0-35)	SW846 8270C
Pyrene	105	(50 - 140)			SW846 8270C
	102	(50 - 140)	3.6	(0-35)	SW846 8270C
1,2,4-Trichloro-benzene	68	(50 - 115)			SW846 8270C
	72	(50 - 115)	5.7	(0-35)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	67	(40 - 130)
	63	(40 - 130)
2-Fluorophenol	65	(50 - 115)
	63	(50 - 115)
2,4,6-Tribromophenol	48	(30 - 115)
	46	(30 - 115)
Nitrobenzene-d5	60	(45 - 115)
	57	(45 - 115)
Phenol-d5	66	(50 - 120)
	66	(50 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELG2J1C7-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-001 ELG2J1C8-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	90	(50 - 140)
	87	(50 - 140)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E1J030176	Work Order #...:	ELG2J1DC-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1J030176-001		ELG2J1DD-MSD		
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	1278202
Prep Date.....:	10/04/01	Analysis Date..:	10/05/01		
Prep Batch #...:	1278360	Analysis Time..:	03:21		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**86**	**(80 - 140)**			**SW846 8015B**
	98	**(80 - 140)**	**13**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	93	(60 - 130)
	99	(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 #...:	E1J030176	Work Order #...:	ELG2J1DL-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1J030176-001		ELG2J1DM-MSD		
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	1281228
Prep Date.....:	10/04/01	Analysis Date..:	10/04/01		
Prep Batch #...:	1281439	Analysis Time..:	15:47		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	103	(60 - 150)			SW846 8260B
	99	(60 - 150)	4.2	(0-30)	SW846 8260B
Benzene	108	(70 - 140)			SW846 8260B
	104	(70 - 140)	3.8	(0-30)	SW846 8260B
Trichloroethene	116	(70 - 130)			SW846 8260B
	116	(70 - 130)	0.46	(0-30)	SW846 8260B
Toluene	97	(70 - 130)			SW846 8260B
	93	(70 - 130)	4.0	(0-30)	SW846 8260B
Chlorobenzene	92	(70 - 130)			SW846 8260B
	90	(70 - 130)	1.9	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(70 - 130)
	94	(70 - 130)
1,2-Dichloroethane-d4	79	(60 - 140)
	78	(60 - 140)
Toluene-d8	89	(70 - 130)
	89	(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

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J030176-002 Prep Batch #...: 1278213							
Aluminum	NC	(70 - 115)			SW846 6010B	10/05/01	ELG2Q1A9
	NC	(70 - 115)		(0-25)	SW846 6010B	10/05/01	ELG2Q1CA
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Arsenic	95	(75 - 115)			SW846 6010B	10/05/01	ELG2Q1CC
	93	(75 - 115)	1.4	(0-25)	SW846 6010B	10/05/01	ELG2Q1CD
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Antimony	38 N	(75 - 115)			SW846 6010B	10/05/01	ELG2Q1CE
	37 N	(75 - 115)	1.8	(0-25)	SW846 6010B	10/05/01	ELG2Q1CF
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Barium	94	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1CG
	93	(80 - 120)	0.48	(0-25)	SW846 6010B	10/05/01	ELG2Q1CH
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Cadmium	89	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1CJ
	88	(80 - 120)	0.83	(0-25)	SW846 6010B	10/05/01	ELG2Q1CK
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Chromium	102	(85 - 120)			SW846 6010B	10/05/01	ELG2Q1CL
	98	(85 - 120)	2.2	(0-25)	SW846 6010B	10/05/01	ELG2Q1CM
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Beryllium	101	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1CN
	100	(80 - 120)	1.1	(0-25)	SW846 6010B	10/05/01	ELG2Q1CP
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J030176 Matrix.....: SOLID
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	94	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1CQ
	93	(80 - 120)	1.2	(0-25)	SW846 6010B	10/05/01	ELG2Q1CR
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Selenium	89	(70 - 115)			SW846 6010B	10/05/01	ELG2Q1CT
	89	(70 - 115)	0.72	(0-25)	SW846 6010B	10/05/01	ELG2Q1CU
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Silver	93	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1CV
	92	(80 - 120)	1.4	(0-25)	SW846 6010B	10/05/01	ELG2Q1CW
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Cobalt	98	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1CX
	97	(80 - 120)	1.1	(0-25)	SW846 6010B	10/05/01	ELG2Q1C0
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Copper	94	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1C1
	94	(80 - 120)	0.04	(0-25)	SW846 6010B	10/05/01	ELG2Q1C2
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Molybdenum	95	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1C3
	94	(80 - 120)	1.7	(0-25)	SW846 6010B	10/05/01	ELG2Q1C4
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Nickel	99	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1C5
	97	(80 - 120)	1.4	(0-25)	SW846 6010B	10/05/01	ELG2Q1C6
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J030176 **Matrix.....:** SOLID
Date Sampled...: 10/02/01 19:00 **Date Received..:** 10/02/01 21:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	94	(75 - 125)			SW846 6010B	10/05/01	ELG2Q1C7
	93	(75 - 125)	0.90	(0-25)	SW846 6010B	10/05/01	ELG2Q1C8
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Vanadium	100	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1A5
	98	(80 - 120)	1.2	(0-25)	SW846 6010B	10/05/01	ELG2Q1A6
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					
Zinc	98	(80 - 120)			SW846 6010B	10/05/01	ELG2Q1A7
	98	(80 - 120)	0.06	(0-25)	SW846 6010B	10/05/01	ELG2Q1A8
		Dilution Factor: 1					
		Analysis Time..: 22:28			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1278098					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E1J030176	Work Order #...:	ELG2Q1A3-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1J030176-002		ELG2Q1A4-MSD		
Date Sampled...:	10/02/01 19:00	Date Received..:	10/02/01 21:30	MS Run #.....:	1277146
Prep Date.....:	10/04/01	Analysis Date..:	10/05/01		
Prep Batch #...:	1277315	Analysis Time..:	05:23		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**91**	**(60 - 130)**			**SW846 8015B**
	93	**(60 - 130)**	**2.1**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	81	(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

GC/MS Volatiles

Client Lot #...: E1J030176 Work Order #...: ELG2R1A3-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-003 ELG2R1A4-MSD
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1281224
Prep Date.....: 10/04/01 Analysis Date..: 10/04/01
Prep Batch #...: 1281436 Analysis Time..: 20:33
Dilution Factor: 8 Analyst ID.....: 999998 Instrument ID..: MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	98	(60 - 140)			SW846 8260B
	105	(60 - 140)	6.1	(0-35)	SW846 8260B
Benzene	97	(60 - 130)			SW846 8260B
	99	(60 - 130)	1.8	(0-35)	SW846 8260B
Trichloroethene	96	(60 - 140)			SW846 8260B
	98	(60 - 140)	1.3	(0-35)	SW846 8260B
Toluene	0.0 NC,MS	(60 - 130)			SW846 8260B
	0.0 NC,MS	(60 - 130)	0.0	(0-35)	SW846 8260B
Chlorobenzene	94	(60 - 130)			SW846 8260B
	95	(60 - 130)	0.50	(0-35)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(60 - 140)
	106	(60 - 140)
1,2-Dichloroethane-d4	101	(60 - 140)
	94	(60 - 140)
Toluene-d8	104	(60 - 140)
	111	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 Work Order #...: ELG2T1A3-MS Matrix.....: SOLID
MS Lot-Sample #: E1J030176-004 ELG2T1A4-MSD
Date Sampled...: 10/02/01 19:00 Date Received..: 10/02/01 21:30 MS Run #.....: 1284264
Prep Date.....: 10/11/01 Analysis Date..: 10/15/01
Prep Batch #...: 1284523 Analysis Time..: 13:52
Dilution Factor: 1 Analyst ID.....: 010060 Instrument ID..: MSI

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	82	(50 - 125)			SW846 8270C
	85	(50 - 125)	3.2	(0-35)	SW846 8270C
4-Chloro-3-methylphenol	66	(50 - 110)			SW846 8270C
	70	(50 - 110)	5.9	(0-35)	SW846 8270C
2-Chlorophenol	74	(50 - 120)			SW846 8270C
	68	(50 - 120)	8.4	(0-35)	SW846 8270C
1,4-Dichlorobenzene	54	(40 - 115)			SW846 8270C
	55	(40 - 115)	2.1	(0-35)	SW846 8270C
2,4-Dinitrotoluene	94	(40 - 120)			SW846 8270C
	95	(40 - 120)	0.82	(0-35)	SW846 8270C
4-Nitrophenol	75	(10 - 120)			SW846 8270C
	83	(10 - 120)	10	(0-35)	SW846 8270C
N-Nitrosodi-n-propyl-amine	62	(40 - 120)			SW846 8270C
	69	(40 - 120)	11	(0-35)	SW846 8270C
Pentachlorophenol	62	(20 - 130)			SW846 8270C
	62	(20 - 130)	0.09	(0-35)	SW846 8270C
Phenol	69	(40 - 110)			SW846 8270C
	64	(40 - 110)	6.6	(0-35)	SW846 8270C
Pyrene	73	(50 - 140)			SW846 8270C
	64	(50 - 140)	14	(0-35)	SW846 8270C
1,2,4-Trichloro-benzene	58	(50 - 115)			SW846 8270C
	57	(50 - 115)	1.5	(0-35)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	58	(40 - 130)
	59	(40 - 130)
2-Fluorophenol	70	(50 - 115)
	65	(50 - 115)
2,4,6-Tribromophenol	76	(30 - 115)
	77	(30 - 115)
Nitrobenzene-d5	60	(45 - 115)
	63	(45 - 115)
Phenol-d5	69	(50 - 120)
	63	(50 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1J030176 **Work Order #...:** ELG2T1A3-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1J030176-004 ELG2T1A4-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	65	(50 - 140)
	59	(50 - 140)

NOTE(S):

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

Bold print denotes control parameters

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Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

LABORATORY REPORT

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

Attention: Diane Suzuki
Project: E1J030176

Sampled: 10/02/01
Received: 10/04/01
Reported: 10/23/01

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AZ DHS License #AZ0062

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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

Client Project ID: E1J030176

Report Number: CKJ0053

Sampled:10/02/01
Received:10/04/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKJ0053-01 (SP-21-100201-1 - Soil)								
Acenaphthene	EPA 8310	C1J1403	50	ND	1	10/14/01	10/15/01	
Acenaphthylene	EPA 8310	C1J1403	200	ND	1	10/14/01	10/15/01	
Anthracene	EPA 8310	C1J1403	2.0	ND	1	10/14/01	10/15/01	
Benzo(a)anthracene	EPA 8310	C1J1403	2.0	ND	1	10/14/01	10/15/01	
Benzo(a)pyrene	EPA 8310	C1J1403	2.0	ND	1	10/14/01	10/15/01	L2
Benzo(b)fluoranthene	EPA 8310	C1J1403	5.0	ND	1	10/14/01	10/15/01	
Benzo(g,h,i)perylene	EPA 8310	C1J1403	5.0	ND	1	10/14/01	10/15/01	
Benzo(k)fluoranthene	EPA 8310	C1J1403	2.0	ND	1	10/14/01	10/15/01	
Chrysene	EPA 8310	C1J1403	5.0	ND	1	10/14/01	10/15/01	
Dibenzo(a,h)anthracene	EPA 8310	C1J1403	5.0	ND	1	10/14/01	10/15/01	
Fluoranthene	EPA 8310	C1J1403	5.0	ND	1	10/14/01	10/15/01	
Fluorene	EPA 8310	C1J1403	5.0	ND	1	10/14/01	10/15/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1J1403	5.0	ND	1	10/14/01	10/15/01	
Naphthalene	EPA 8310	C1J1403	40	ND	1	10/14/01	10/15/01	
Phenanthrene	EPA 8310	C1J1403	5.0	ND	1	10/14/01	10/15/01	
Pyrene	EPA 8310	C1J1403	5.0	ND	1	10/14/01	10/15/01	
Surrogate: 2-Methylanthracene (35-115%)				*70.6 %*				
Sample ID: CKJ0053-02 (SP-21-100201-2 - Soil)								
Acenaphthene	EPA 8310	C1J1608	50	ND	1	10/16/01	10/16/01	
Acenaphthylene	EPA 8310	C1J1608	200	ND	1	10/16/01	10/16/01	
Anthracene	EPA 8310	C1J1608	2.0	ND	1	10/16/01	10/16/01	
Benzo(a)anthracene	EPA 8310	C1J1608	2.0	ND	1	10/16/01	10/16/01	
Benzo(a)pyrene	EPA 8310	C1J1608	2.0	ND	1	10/16/01	10/16/01	
Benzo(b)fluoranthene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Benzo(g,h,i)perylene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Benzo(k)fluoranthene	EPA 8310	C1J1608	2.0	ND	1	10/16/01	10/16/01	
Chrysene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Dibenzo(a,h)anthracene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Fluoranthene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Fluorene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Naphthalene	EPA 8310	C1J1608	40	ND	1	10/16/01	10/16/01	
Phenanthrene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Pyrene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Surrogate: 2-Methylanthracene (35-115%)				*70.9 %*				

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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

Client Project ID: E1J030176

Report Number: CKJ0053

Sampled:10/02/01
Received:10/04/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKJ0053-03 (SP-23-100201-1 - Soil)								
Acenaphthene	EPA 8310	C1J1608	50	ND	1	10/16/01	10/16/01	
Acenaphthylene	EPA 8310	C1J1608	200	ND	1	10/16/01	10/16/01	
Anthracene	EPA 8310	C1J1608	2.0	ND	1	10/16/01	10/16/01	
Benzo(a)anthracene	EPA 8310	C1J1608	2.0	**5.3**	1	10/16/01	10/16/01	
Benzo(a)pyrene	EPA 8310	C1J1608	2.0	**7.1**	1	10/16/01	10/16/01	
Benzo(b)fluoranthene	EPA 8310	C1J1608	5.0	**6.2**	1	10/16/01	10/16/01	
Benzo(g,h,i)perylene	EPA 8310	C1J1608	5.0	**5.1**	1	10/16/01	10/16/01	
Benzo(k)fluoranthene	EPA 8310	C1J1608	2.0	**3.3**	1	10/16/01	10/16/01	
Chrysene	EPA 8310	C1J1608	5.0	**7.5**	1	10/16/01	10/16/01	
Dibenzo(a,h)anthracene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Fluoranthene	EPA 8310	C1J1608	5.0	**15**	1	10/16/01	10/16/01	
Fluorene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Naphthalene	EPA 8310	C1J1608	40	ND	1	10/16/01	10/16/01	
Phenanthrene	EPA 8310	C1J1608	5.0	**6.0**	1	10/16/01	10/16/01	
Pyrene	EPA 8310	C1J1608	5.0	**9.6**	1	10/16/01	10/16/01	
Surrogate: 2-Methylanthracene (35-115%)				*76.9 %*				
Sample ID: CKJ0053-04 (SP-23-100201-2 - Soil)								
Acenaphthene	EPA 8310	C1J1608	50	ND	1	10/16/01	10/16/01	
Acenaphthylene	EPA 8310	C1J1608	200	ND	1	10/16/01	10/16/01	
Anthracene	EPA 8310	C1J1608	2.0	ND	1	10/16/01	10/16/01	
Benzo(a)anthracene	EPA 8310	C1J1608	2.0	ND	1	10/16/01	10/16/01	
Benzo(a)pyrene	EPA 8310	C1J1608	2.0	ND	1	10/16/01	10/16/01	
Benzo(b)fluoranthene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Benzo(g,h,i)perylene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Benzo(k)fluoranthene	EPA 8310	C1J1608	2.0	ND	1	10/16/01	10/16/01	
Chrysene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Dibenzo(a,h)anthracene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Fluoranthene	EPA 8310	C1J1608	5.0	**7.0**	1	10/16/01	10/16/01	
Fluorene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Naphthalene	EPA 8310	C1J1608	40	ND	1	10/16/01	10/16/01	
Phenanthrene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Pyrene	EPA 8310	C1J1608	5.0	ND	1	10/16/01	10/16/01	
Surrogate: 2-Methylanthracene (35-115%)				*74.1 %*				

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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

Client Project ID: E1J030176

Report Number: CKJ0053

Sampled:10/02/01
Received:10/04/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1J1403 Extracted: 10/14/01										
Blank Analyzed: 10/15/01 (C1J1403-BLK1)										
Acenaphthene	ND	50	ug/kg							
Acenaphthylene	ND	200	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benzo(a)anthracene	ND	2.0	ug/kg							
Benzo(a)pyrene	ND	2.0	ug/kg							L2
Benzo(b)fluoranthene	ND	5.0	ug/kg							
Benzo(g,h,i)perylene	ND	5.0	ug/kg							
Benzo(k)fluoranthene	ND	2.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo(a,h)anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
Naphthalene	ND	40	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate: 2-Methylanthracene	*4.36*		*ug/kg*	*8.00*		*54.5*	*35-115*			
LCS Analyzed: 10/15/01 (C1J1403-BS1)										
Acenaphthene	120	50	ug/kg	160		75.0	45-115			
Acenaphthylene	313	200	ug/kg	320		97.8	50-115			
Anthracene	9.76	2.0	ug/kg	16.0		61.0	55-115			
Benzo(a)anthracene	12.9	2.0	ug/kg	16.0		80.6	65-115			
Benzo(a)pyrene	8.46	2.0	ug/kg	16.0		52.9	55-115			L2
Benzo(b)fluoranthene	24.8	5.0	ug/kg	32.0		77.5	65-115			
Benzo(g,h,i)perylene	24.9	5.0	ug/kg	32.0		77.8	60-115			
Benzo(k)fluoranthene	12.7	2.0	ug/kg	16.0		79.4	65-115			
Chrysene	12.8	5.0	ug/kg	16.0		80.0	65-115			
Dibenzo(a,h)anthracene	24.4	5.0	ug/kg	32.0		76.2	60-115			
Fluoranthene	25.0	5.0	ug/kg	32.0		78.1	65-115			
Fluorene	25.0	5.0	ug/kg	32.0		78.1	55-115			
Indeno(1,2,3-cd)pyrene	11.6	5.0	ug/kg	16.0		72.5	55-115			
Naphthalene	141	40	ug/kg	160		88.1	45-115			
Phenanthrene	15.9	5.0	ug/kg	16.0		99.4	55-120			
Pyrene	12.8	5.0	ug/kg	16.0		80.0	55-115			

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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

Client Project ID: E1J030176

Report Number: CKJ0053

Sampled:10/02/01
Received:10/04/01

METHOD BLANK QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1J1403 Extracted: 10/14/01										
LCS Analyzed: 10/15/01 (C1J1403-BS1)										
Surrogate: 2-Methylanthracene	*4.56*		*ug/kg*	*8.00*		*57.0*	*35-115*			
Matrix Spike Analyzed: 10/15/01 (C1J1403-MS1)					**Source: CKJ0053-01**					
Acenaphthene	115	50	ug/kg	160	ND	71.9	40-115			
Acenaphthylene	289	200	ug/kg	320	ND	90.3	35-130			
Anthracene	11.5	2.0	ug/kg	16.0	ND	71.9	40-115			
Benzo(a)anthracene	13.8	2.0	ug/kg	16.0	ND	84.9	45-130			
Benzo(a)pyrene	11.6	2.0	ug/kg	16.0	ND	72.5	50-115			*L2*
Benzo(b)fluoranthene	25.5	5.0	ug/kg	32.0	ND	79.7	40-130			
Benzo(g,h,i)perylene	26.2	5.0	ug/kg	32.0	ND	81.9	45-115			
Benzo(k)fluoranthene	13.0	2.0	ug/kg	16.0	ND	81.2	40-125			
Chrysene	13.4	5.0	ug/kg	16.0	ND	83.8	45-125			
Dibenzo(a,h)anthracene	25.0	5.0	ug/kg	32.0	ND	78.1	25-130			
Fluoranthene	26.7	5.0	ug/kg	32.0	ND	82.1	50-135			
Fluorene	24.9	5.0	ug/kg	32.0	ND	77.8	35-120			
Indeno(1,2,3-cd)pyrene	12.9	5.0	ug/kg	16.0	ND	80.6	40-120			
Naphthalene	133	40	ug/kg	160	ND	83.1	30-115			
Phenanthrene	13.6	5.0	ug/kg	16.0	ND	81.4	30-160			
Pyrene	13.8	5.0	ug/kg	16.0	ND	86.2	20-165			
Surrogate: 2-Methylanthracene	*5.89*		*ug/kg*	*8.00*		*73.6*	*35-115*			
Matrix Spike Dup Analyzed: 10/15/01 (C1J1403-MSD1)					**Source: CKJ0053-01**					
Acenaphthene	117	50	ug/kg	160	ND	73.1	40-115	1.72	25	
Acenaphthylene	296	200	ug/kg	320	ND	92.5	35-130	2.39	25	
Anthracene	11.4	2.0	ug/kg	16.0	ND	71.2	40-115	0.873	25	
Benzo(a)anthracene	13.8	2.0	ug/kg	16.0	ND	84.9	45-130	0.00	20	
Benzo(a)pyrene	11.3	2.0	ug/kg	16.0	ND	70.6	50-115	2.62	20	*L2*
Benzo(b)fluoranthene	25.5	5.0	ug/kg	32.0	ND	79.7	40-130	0.00	25	
Benzo(g,h,i)perylene	25.6	5.0	ug/kg	32.0	ND	80.0	45-115	2.32	20	
Benzo(k)fluoranthene	13.0	2.0	ug/kg	16.0	ND	81.2	40-125	0.00	25	
Chrysene	13.6	5.0	ug/kg	16.0	ND	85.0	45-125	1.48	30	
Dibenzo(a,h)anthracene	24.9	5.0	ug/kg	32.0	ND	77.8	25-130	0.401	30	
Fluoranthene	26.8	5.0	ug/kg	32.0	ND	82.4	50-135	0.374	25	
Fluorene	25.3	5.0	ug/kg	32.0	ND	79.1	35-120	1.59	20	
Indeno(1,2,3-cd)pyrene	12.1	5.0	ug/kg	16.0	ND	75.6	40-120	6.40	20	

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

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

Client Project ID: E1J030176

Report Number: CKJ0053

Sampled:10/02/01
Received:10/04/01

METHOD BLANK/LCS DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1J1403 Extracted: 10/14/01										
Matrix Spike Dup Analyzed: 10/15/01 (C1J1403-MSD1)					**Source: CKJ0053-01**					
Naphthalene	135	40	ug/kg	160	ND	84.4	30-115	1.49	25	
Phenanthrene	14.9	5.0	ug/kg	16.0	ND	89.6	30-160	9.12	30	
Pyrene	13.7	5.0	ug/kg	16.0	ND	85.6	20-165	0.727	20	
Surrogate: 2-Methylanthracene	*5.77*		*ug/kg*	*8.00*		*72.1*	*35-115*			
Batch: C1J1608 Extracted: 10/16/01										
Blank Analyzed: 10/16/01 (C1J1608-BLK1)										
Acenaphthene	ND	50	ug/kg							
Acenaphthylene	ND	200	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benzo(a)anthracene	ND	2.0	ug/kg							
Benzo(a)pyrene	ND	2.0	ug/kg							
Benzo(b)fluoranthene	ND	5.0	ug/kg							
Benzo(g,h,i)perylene	ND	5.0	ug/kg							
Benzo(k)fluoranthene	ND	2.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo(a,h)anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
Naphthalene	ND	40	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate: 2-Methylanthracene	*5.59*		*ug/kg*	*8.00*		*69.9*	*35-115*			
LCS Analyzed: 10/16/01 (C1J1608-BS1)										**M-NR**
Acenaphthene	136	50	ug/kg	160		85.0	45-115			
Acenaphthylene	345	200	ug/kg	320		108	50-115			
Anthracene	11.7	2.0	ug/kg	16.0		73.1	55-115			
Benzo(a)anthracene	14.5	2.0	ug/kg	16.0		90.6	65-115			
Benzo(a)pyrene	11.6	2.0	ug/kg	16.0		72.5	55-115			
Benzo(b)fluoranthene	27.1	5.0	ug/kg	32.0		84.7	65-115			
Benzo(g,h,i)perylene	27.7	5.0	ug/kg	32.0		86.6	60-115			
Benzo(k)fluoranthene	14.0	2.0	ug/kg	16.0		87.5	65-115			

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

STL Los Angeles 1721 S. Grand Avenue Santa Ana, CA 92705 Attention: Diane Suzuki	Client Project ID: E1J030176 Report Number: CKJ0053	Sampled:10/02/01 Received:10/04/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1J1608 Extracted: 10/16/01										
LCS Analyzed: 10/16/01 (C1J1608-BS1)										**M-NR**
Chrysene	13.9	5.0	ug/kg	16.0		86.9	65-115			
Dibenzo(a,h)anthracene	28.1	5.0	ug/kg	32.0		87.8	60-115			
Fluoranthene	27.5	5.0	ug/kg	32.0		85.9	65-115			
Fluorene	27.5	5.0	ug/kg	32.0		85.9	55-115			
Indeno(1,2,3-cd)pyrene	13.8	5.0	ug/kg	16.0		86.2	55-115			
Naphthalene	149	40	ug/kg	160		93.1	45-115			
Phenanthrene	13.2	5.0	ug/kg	16.0		82.5	55-120			
Pyrene	13.7	5.0	ug/kg	16.0		85.6	55-115			
Surrogate: 2-Methylanthracene	*5.15*		*ug/kg*	*8.00*		*64.4*	*35-115*			

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

STL Los Angeles 1721 S. Grand Avenue Santa Ana, CA 92705 Attention: Diane Suzuki	Client Project ID: E1J030176 Report Number: CKJ0053	Sampled:10/02/01 Received:10/04/01

DATA QUALIFIERS AND DEFINITIONS

L2	Laboratory Control Sample recovery was below method control limits. See Corrective Action Report.
M-NR	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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[redacted]

Chain of Custody Record

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

STL-4124 (0700)

Client: ~~STL~~ STL LOS ANGELES	Project Manager: DIANE SUZUKI	Date: 10/3/01	Chain of Custody Number: 052206
Address: 1721 S. Grand Ave	Telephone Number (Area Code)/Fax Number: (714) 258-8610 X 309	Lab Number: CUFFKBUR	Page 1 of 1
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact	Lab Contact	
Project Name and Location (State): EIJ030176	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): PAH by 8310	Special Instructions/ Conditions of Receipt
SP-21-100201-1	10/02/01	1900				X							X	EIJ030176
SP-21-100201-2	↓	↓				X							X	
SP-23-100201-1						X							X	
SP-23-100201-2	✓	✓				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 _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	10/3/01	1030	1. Received By: Airborne		
2. Relinquished By			2. Received By: [signature]		
3. Relinquished By			3. Received By: [signature]	10-3-01	1015

Comments

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

BOE-C6-0180791

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

October 4, 2001

STL LOT NUMBER: E1I270350
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 September 27, 2001. This sample is associated with your BRC former C-6 Torrance Harbor Gateway project.

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

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

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

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

000074

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ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0180792

SEVERN TRENT SERVICES

LOT NUMBER E1I270350

Nonconformance 05-02235

Affected Samples:
E1I270350 (1): BUILD_1_B_15_092701_10

Affected Methods:
8082 PCB

Case Narrative:
Both the TCX and DCB were low in the sample at 34.7% and 45.5% respectively.

Corrective Action:
Additional sample volume was provided for second reanalysis.

Nonconformance 05-02237

Affected Samples:
E1I270350 (1): BUILD_1_B_15_092701_10

Affected Methods:
8270C

Case Narrative:
Raised reporting limits is due to limited volume of sample used 18.2g of sample for 8270c analysis.

ACCREDITED IN ACCORDANCE WITH nelac

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 9/27/01	Chain of Custody Number: 049982
Address: 9040 FRIARS RD	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: E1I210350	Page 1 of 1
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact:	Lab Contact:	
Project Name and Location (State): BOEING C6 - TORRANCE	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 27285-001			

Analysis (Attach list if more space is needed)

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	VOC's + TICs per S Zachary	SVOC's	TPH	PAH	PCB's	METALS	Special Instructions/ Conditions of Receipt
BUILD-1-B-15-092701-10'	9/27/01	15:00					X	X						X	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 lee 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 ASAP

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: TRAVIS HAMMOND	9/27/01	19:00	1. Received By: [signature]	9/27/01	1900
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments: SUPER-RUSH ON METALS & PCB'S - BY LUNCH FRIDAY IF POSSIBLE

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

000003

BOE-C6-0180794

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 09-27-2001

Quantims Lot #: E1I270350 Quote #: 42295
Client Name: Haley & Aldrich Project: Boeing C-6
Received by: Royce Suzuki Date/Time Received: 09/27/01 1900
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	RS 09/27
Custody Seal #(s):	[X] No Seal #	
Sample Container(s):	[X] STL-LA [ ] Client [ ] N/A	
Temperature(s) (COOLER/BLANK) in °C:	~~4.6~~ 4.4 deg C (CORRECTED TEMP) 4.6 deg	
Thermometer Used :	[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:	[X] RUSH-24HR [ ] RUSH-48HR [ ] RUSH-72HR [ ] NORMAL	RS 09/27
Short-Hold Notification:	[ ] Ph [ ] Wet Chem [ ] Metals (Filter/Pres) [ ] Encore [X] N/A	
Outside Analysis(es) (Test/Lab/Date Sent Out) :	PAH to Del Mar	

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

Fraction	1											PH
VOAh /*												N/A
OGJ	3											

h:HCl na:Sodium Hydoxide zana: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: 09/27/01 REVIEWED BY/DATE: 9/28/01

000004

EXECUTIVE SUMMARY - Detection Highlights

E1I270350

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
BUILD_1_B_15_092701_10 09/27/01 15:00 001				
Total Carbon Chain Range	5.7 J	10	mg/kg	SW846 8015B
Aroclor 1260	25 J	33	ug/kg	SW846 8082
Aroclor 1260	100	33	ug/kg	SW846 8082
C6-C8	0.13 J	1.0	mg/kg	SW846 8015B
Mercury	0.41	0.10	mg/kg	SW846 7471A
Aluminum	68.5	20.0	mg/kg	SW846 6010B
Arsenic	27.2	1.0	mg/kg	SW846 6010B
Antimony	1.4 B	6.0	mg/kg	SW846 6010B
Barium	11.2	2.0	mg/kg	SW846 6010B
Chromium	18.2	1.0	mg/kg	SW846 6010B
Lead	29.6	0.50	mg/kg	SW846 6010B
Selenium	8.1	0.50	mg/kg	SW846 6010B
Cobalt	9.5	5.0	mg/kg	SW846 6010B
Copper	43.9	2.5	mg/kg	SW846 6010B
Molybdenum	8.9	4.0	mg/kg	SW846 6010B
Nickel	188	4.0	mg/kg	SW846 6010B
Thallium	1.7	1.0	mg/kg	SW846 6010B
Vanadium	282	5.0	mg/kg	SW846 6010B
Zinc	10.1	2.0	mg/kg	SW846 6010B
Hexachlorobenzene	660 G	540	ug/kg	SW846 8270C
1,1-Dichloroethene	120	5.0	ug/kg	SW846 8260B
Methylene chloride	3.2 J	5.0	ug/kg	SW846 8260B
Trichloroethene	90	5.0	ug/kg	SW846 8260B

METHODS SUMMARY

E1I270350

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
PCBs by SW-846 8082	SW846 8082	SW846 3550
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
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

E1I270350

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EK8XF	001	BUILD_1_B_15_092701_10	09/27/01	15:00

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: BUILD_1_B_15_092701_10

GC Semivolatiles

Lot-Sample #...:	E1I270350-001	**Work Order #...:**	EK8XF1AA	**Matrix.....:**	SOLID
Date Sampled...:	09/27/01 15:00	**Date Received..:**	09/27/01 19:00	**MS Run #.....:**	1271205
Prep Date.....:	09/28/01	**Analysis Date..:**	09/28/01		
Prep Batch #...:	1271404	**Analysis Time..:**	16:38		
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	**5.7 J**	**10**	**mg/kg**	**5.0**

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

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: BUILD_1_B_15_092701_10

GC Volatiles

Lot-Sample #...:	E1I270350-001	Work Order #...:	EK8XF1AC	Matrix.....:	SOLID
Date Sampled...:	09/27/01 15:00	Date Received..:	09/27/01 19:00	MS Run #.....:	1271163
Prep Date.....:	09/28/01	Analysis Date..:	09/28/01		
Prep Batch #...:	1271337	Analysis Time..:	03:29		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G15		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	0.13 J	1.0	mg/kg	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	90	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: BUILD_1_B_15_092701_10

GC Semivolatiles

Lot-Sample #...:	E1I270350-001	**Work Order #...:**	EK8XF1AF	**Matrix.....:**	SOLID
Date Sampled...:	09/27/01 15:00	**Date Received..:**	09/27/01 19:00	**MS Run #.....:**	1271135
Prep Date.....:	09/28/01	**Analysis Date..:**	09/28/01		
Prep Batch #...:	1271272	**Analysis Time..:**	13:30		
Dilution Factor:	1				
Analyst ID.....:	018568	**Instrument ID..:**	G8B		
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	10
Aroclor 1221	ND	33	ug/kg	10
Aroclor 1232	ND	33	ug/kg	10
Aroclor 1242	ND	33	ug/kg	10
Aroclor 1248	ND	33	ug/kg	10
Aroclor 1254	ND	33	ug/kg	10
Aroclor 1260	**25 J**	**33**	**ug/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	45 *	(60 - 140)
Tetrachloro-m-xylene	35 *	(60 - 140)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: BUILD_1_B_15_092701_10

GC Semivolatiles

Lot-Sample #...:	E1I270350-001	**Work Order #...:**	EK8XF2AF	**Matrix.....:**	SOLID
Date Sampled...:	09/27/01 15:00	**Date Received..:**	09/27/01 19:00	**MS Run #.....:**	1273017
Prep Date.....:	09/28/01	**Analysis Date..:**	09/30/01		
Prep Batch #...:	1273113	**Analysis Time..:**	11:54		
Dilution Factor:	1				
Analyst ID.....:	018568	**Instrument ID..:**	G8B		
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	10
Aroclor 1221	ND	33	ug/kg	10
Aroclor 1232	ND	33	ug/kg	10
Aroclor 1242	ND	33	ug/kg	10
Aroclor 1248	ND	33	ug/kg	10
Aroclor 1254	ND	33	ug/kg	10
Aroclor 1260	**100**	**33**	**ug/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	102	(60 - 140)
Tetrachloro-m-xylene	67	(60 - 140)

NOTE(S):

Weathered AR1260.

HALEY & ALDRICH INC

Client Sample ID: BUILD_1_B_15_092701_10

GC/MS Volatiles

Lot-Sample #...: E1I270350-001 **Work Order #...:** EK8XF1AD **Matrix.....:** SOLID
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00 **MS Run #.....:** 1272053
Prep Date.....: 09/28/01 **Analysis Date..:** 09/28/01
Prep Batch #...: 1272178 **Analysis Time..:** 10:59
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	2.0
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	**120**	**5.0**	**ug/kg**	**2.0**
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	**3.2 J**	**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	10
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	**90**	**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: BUILD_1_B_15_092701_10

GC/MS Volatiles

Lot-Sample #...: E1I270350-001 Work Order #...: EK8XF1AD 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	5.0
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	144 *	(70 - 130)
1,2-Dichloroethane-d4	101	(60 - 140)
Toluene-d8	138 *	(70 - 130)

NOTE(S):

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: BUILD_1_B_15_092701_10

GC/MS Semivolatiles

Lot-Sample #...: E1I270350-001 **Work Order #...:** EK8XF1DC **Matrix.....:** SOLID
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00 **MS Run #.....:**
Prep Date.....: 09/28/01 **Analysis Date..:** 09/30/01
Prep Batch #...: 1271386 **Analysis Time..:** 13:26
Dilution Factor: 1.64
Analyst ID.....: 010060 **Instrument ID..:** MSE
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND G	540	ug/kg	160
Acenaphthylene	ND G	540	ug/kg	160
Anthracene	ND G	540	ug/kg	130
Benzo(a)anthracene	ND G	540	ug/kg	160
Benzo(b)fluoranthene	ND G	540	ug/kg	160
Benzo(k)fluoranthene	ND G	540	ug/kg	330
Benzo(ghi)perylene	ND G	540	ug/kg	250
Benzo(a)pyrene	ND G	540	ug/kg	110
Benzoic acid	ND G	2600	ug/kg	820
Benzyl alcohol	ND G	540	ug/kg	160
bis(2-Chloroethoxy) methane	ND G	540	ug/kg	160
bis(2-Chloroethyl)-ether	ND G	540	ug/kg	160
bis(2-Chloroisopropyl) ether	ND G	540	ug/kg	180
bis(2-Ethylhexyl) phthalate	ND G	540	ug/kg	330
4-Bromophenyl phenyl ether	ND G	540	ug/kg	130
Butyl benzyl phthalate	ND G	540	ug/kg	160
Carbazole	ND G	540	ug/kg	130
4-Chloroaniline	ND G	540	ug/kg	250
4-Chloro-3-methylphenol	ND G	540	ug/kg	160
2-Chloronaphthalene	ND G	540	ug/kg	160
2-Chlorophenol	ND G	540	ug/kg	250
4-Chlorophenyl phenyl ether	ND G	540	ug/kg	150
Chrysene	ND G	540	ug/kg	160
Dibenz(a,h)anthracene	ND G	540	ug/kg	160
Dibenzofuran	ND G	540	ug/kg	150
Di-n-butyl phthalate	ND G	540	ug/kg	160
1,2-Dichlorobenzene	ND G	540	ug/kg	210
1,3-Dichlorobenzene	ND G	540	ug/kg	210
1,4-Dichlorobenzene	ND G	540	ug/kg	210
3,3'-Dichlorobenzidine	ND G	2600	ug/kg	660
2,4-Dichlorophenol	ND G	540	ug/kg	150

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HALEY & ALDRICH INC

Client Sample ID: BUILD_1_B_15_092701_10

GC/MS Semivolatiles

Lot-Sample #...: E1I270350-001 **Work Order #...:** EK8XF1DC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND G	540	ug/kg	160
2,4-Dimethylphenol	ND G	540	ug/kg	160
Dimethyl phthalate	ND G	540	ug/kg	130
4,6-Dinitro-2-methylphenol	ND G	2600	ug/kg	490
2,4-Dinitrophenol	ND G	2600	ug/kg	820
2,4-Dinitrotoluene	ND G	540	ug/kg	160
2,6-Dinitrotoluene	ND G	540	ug/kg	150
Di-n-octyl phthalate	ND G	540	ug/kg	180
Fluoranthene	ND G	540	ug/kg	110
Fluorene	ND G	540	ug/kg	150
Hexachlorobenzene	**660 G**	**540**	**ug/kg**	**130**
Hexachlorobutadiene	ND G	540	ug/kg	160
Hexachlorocyclopentadiene	ND G	2600	ug/kg	610
Hexachloroethane	ND G	540	ug/kg	210
Indeno(1,2,3-cd)pyrene	ND G	540	ug/kg	160
Isophorone	ND G	540	ug/kg	160
2-Methylnaphthalene	ND G	540	ug/kg	150
2-Methylphenol	ND G	540	ug/kg	130
3-Methylphenol & 4-Methylphenol	ND G	540	ug/kg	160
Naphthalene	ND G	540	ug/kg	150
2-Nitroaniline	ND G	2600	ug/kg	490
3-Nitroaniline	ND G	2600	ug/kg	570
4-Nitroaniline	ND G	2600	ug/kg	330
Nitrobenzene	ND G	540	ug/kg	250
2-Nitrophenol	ND G	540	ug/kg	160
4-Nitrophenol	ND G	2600	ug/kg	660
N-Nitrosodiphenylamine	ND G	540	ug/kg	130
N-Nitrosodi-n-propylamine	ND G	540	ug/kg	150
Pentachlorophenol	ND G	2600	ug/kg	690
Phenanthrene	ND G	540	ug/kg	130
Phenol	ND G	540	ug/kg	160
Pyrene	ND G	540	ug/kg	200
1,2,4-Trichlorobenzene	ND G	540	ug/kg	160
2,4,5-Trichlorophenol	ND G	540	ug/kg	160
2,4,6-Trichlorophenol	ND G	540	ug/kg	110

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HALEY & ALDRICH INC

Client Sample ID: BUILD_1_B_15_092701_10

GC/MS Semivolatiles

Lot-Sample #...: E1I270350-001 Work Order #...: EK8XF1DC Matrix.....: SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	79	(40 - 130)
2-Fluorophenol	62	(50 - 115)
2,4,6-Tribromophenol	95	(30 - 115)
Nitrobenzene-d5	67	(45 - 115)
Phenol-d5	65	(50 - 120)
Terphenyl-d14	66	(50 - 140)

NOTE(S):

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

HALEY & ALDRICH INC

Client Sample ID: BUILD_1_B_15_092701_10

TOTAL Metals

Lot-Sample #...: E1I270350-001 **Matrix.....:** SOLID
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1271231						
Aluminum	**68.5**	**20.0**	**mg/kg**	**SW846 6010B**	**09/28/01**	**EK8XF1AG**
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 8.0	
Arsenic	**27.2**	**1.0**	**mg/kg**	**SW846 6010B**	**09/28/01**	**EK8XF1AH**
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.40	
Antimony	**1.4 B**	**6.0**	**mg/kg**	**SW846 6010B**	**09/28/01**	**EK8XF1AJ**
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.60	
Barium	**11.2**	**2.0**	**mg/kg**	**SW846 6010B**	**09/28/01**	**EK8XF1AK**
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/28/01	EK8XF1AL
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.060	
Chromium	**18.2**	**1.0**	**mg/kg**	**SW846 6010B**	**09/28/01**	**EK8XF1AM**
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.10	
Beryllium	ND	0.50	mg/kg	SW846 6010B	09/28/01	EK8XF1AN
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.050	
Lead	**29.6**	**0.50**	**mg/kg**	**SW846 6010B**	**09/28/01**	**EK8XF1AP**
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.30	
Selenium	**8.1**	**0.50**	**mg/kg**	**SW846 6010B**	**09/28/01**	**EK8XF1AQ**
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	09/28/01	EK8XF1AR
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: BUILD_1_B_15_092701_10

TOTAL Metals

Lot-Sample #...: E1I270350-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	9.5	5.0	mg/kg	SW846 6010B	09/28/01	EK8XF1AT
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.10	
Copper	43.9	2.5	mg/kg	SW846 6010B	09/28/01	EK8XF1AU
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.40	
Molybdenum	8.9	4.0	mg/kg	SW846 6010B	09/28/01	EK8XF1AV
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.30	
Nickel	188	4.0	mg/kg	SW846 6010B	09/28/01	EK8XF1AW
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.30	
Thallium	1.7	1.0	mg/kg	SW846 6010B	09/28/01	EK8XF1AX
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.80	
Vanadium	282	5.0	mg/kg	SW846 6010B	09/28/01	EK8XF1A0
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 0.10	
Zinc	10.1	2.0	mg/kg	SW846 6010B	09/28/01	EK8XF1A1
		Dilution Factor: 1		Analysis Time..: 16:00	Analyst ID.....: 0210887	
		Instrument ID..: M01		MS Run #.....: 1271097	MDL.....: 1.0	
Prep Batch #...: 1271235						
Mercury	0.41	0.10	mg/kg	SW846 7471A	09/28/01	EK8XF1A2
		Dilution Factor: 1		Analysis Time..: 11:57	Analyst ID.....: 0000237	
		Instrument ID..: M04		MS Run #.....: 1271101	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E1I270350

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		1271404	1271205
	SOLID	SW846 8015B		1271337	1271163
	SOLID	SW846 7471A		1271235	1271101
	SOLID	SW846 8082		1271272	1271135
	SOLID	SW846 8082		1273113	1273017
	SOLID	SW846 8260B		1272178	1272053
	SOLID	SW846 8270C		1271386	
	SOLID	SW846 6010B		1271231	1271097

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1I270350
MB Lot-Sample #: E1I280000-272

Analysis Date..: 09/28/01
Dilution Factor: 1

Work Order #...: EK9KN1AA

Prep Date.....: 09/28/01
Prep Batch #...: 1271272

Analyst ID.....: 018568

Matrix.....: SOLID

Analysis Time..: 12:11
Instrument ID..: G8B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	100	(60 - 140)
Tetrachloro-m-xylene	74	(60 - 140)

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1I270350
MB Lot-Sample #: E1I280000-337
Analysis Date..: 09/28/01
Dilution Factor: 1

Work Order #...: EK9XE1AA
Prep Date.....: 09/28/01
Prep Batch #...: 1271337
Analyst ID.....: 001464

Matrix.....: SOLID
Analysis Time..: 03:02
Instrument ID..: G15

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)	81	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1I270350 **Work Order #...:** EK9771AA **Matrix.....:** SOLID
MB Lot-Sample #: E1I280000-386

Prep Date.....: 09/28/01 **Analysis Time..:** 11:11
Analysis Date..: 09/30/01 **Prep Batch #...:** 1271386 **Instrument ID..:** MSE
Dilution Factor: 1

Analyst ID.....: 010060

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1I270350 **Work Order #...:** EK9771AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	79	(40 - 130)
2-Fluorophenol	67	(50 - 115)
2,4,6-Tribromophenol	91	(30 - 115)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1I270350 **Work Order #...:** EK9771AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene-d5	69	(45 - 115)		
Phenol-d5	69	(50 - 120)		
Terphenyl-d14	70	(50 - 140)		

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1I270350
MB Lot-Sample #: E1I280000-404
Analysis Date..: 09/28/01
Dilution Factor: 1

Work Order #...: ELAEF1AA
Prep Date.....: 09/28/01
Prep Batch #...: 1271404
Analyst ID.....: 356074

Matrix.....: SOLID
Analysis Time..: 15:20
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	76	(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 #...: E1I270350
MB Lot-Sample #: E1I290000-178
Analysis Date..: 09/28/01
Dilution Factor: 1

Work Order #...: ELC0J1AA
Prep Date.....: 09/28/01
Prep Batch #...: 1272178
Analyst ID.....: 999998

Matrix.....: SOLID
Analysis Time..: 10:12
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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1I270350 **Work Order #...:** ELC0J1AA **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	97	(70 - 130)
1,2-Dichloroethane-d4	88	(60 - 140)
Toluene-d8	99	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1I270350
MB Lot-Sample #: E1I300000-113
Work Order #...: ELC511AA
Matrix.....: SOLID
Prep Date.....: 09/28/01
Analysis Time..: 10:34
Analysis Date..: 09/30/01
Prep Batch #...: 1273113
Instrument ID..: G8B
Dilution Factor: 1
Analyst ID.....: 018568

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	96	(60 - 140)
Tetrachloro-m-xylene	101	(60 - 140)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1I280000-231 **Prep Batch #...:** 1271231						
Aluminum	ND	20.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AA
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AC
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AD
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AE
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/28/01	EK9EJ1AF
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AG
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	09/28/01	EK9EJ1AH
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	09/28/01	EK9EJ1AJ
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	09/28/01	EK9EJ1AK
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AL
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AM
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	09/28/01	EK9EJ1AN
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AP
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AQ
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AR
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AT
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	09/28/01	EK9EJ1AU
		Dilution Factor: 1				
		Analysis Time..: 15:44		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E1I280000-235 **Prep Batch #...:** 1271235

Mercury	ND	0.10	mg/kg	SW846 7471A	09/28/01	EK9E91AA
		Dilution Factor: 1				
		Analysis Time..: 11:54		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1I270350
LCS Lot-Sample#: E1I280000-386
Prep Date.....: 09/28/01
Prep Batch #...: 1271386
Dilution Factor: 1
Analyst ID.....: 010060

Work Order #...: EK9771AC-LCS
EK9771AD-LCSD
Analysis Date..: 09/30/01
Analysis Time..: 11:45
Instrument ID..: MSE

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	3330	2480	ug/kg	75		SW846 8270C
	3330	2520	ug/kg	75	1.2	SW846 8270C
4-Chloro-3-methylphenol	5000	3210	ug/kg	64		SW846 8270C
	5000	3130	ug/kg	63	2.5	SW846 8270C
2-Chlorophenol	5000	3420	ug/kg	68		SW846 8270C
	5000	3290	ug/kg	66	3.9	SW846 8270C
1,4-Dichlorobenzene	3330	2200	ug/kg	66		SW846 8270C
	3330	2170	ug/kg	65	1.5	SW846 8270C
2,4-Dinitrotoluene	3330	2900	ug/kg	87		SW846 8270C
	3330	2890	ug/kg	87	0.24	SW846 8270C
4-Nitrophenol	5000	2420	ug/kg	48		SW846 8270C
	5000	2610	ug/kg	52	7.6	SW846 8270C
N-Nitrosodi-n-propyl-amine	3330	2260	ug/kg	68		SW846 8270C
	3330	2240	ug/kg	67	1.1	SW846 8270C
Pentachlorophenol	5000	4000	ug/kg	80		SW846 8270C
	5000	3960	ug/kg	79	1.0	SW846 8270C
Phenol	5000	2640	ug/kg	53		SW846 8270C
	5000	2590	ug/kg	52	1.7	SW846 8270C
Pyrene	3330	1920	ug/kg	58		SW846 8270C
	3330	1880	ug/kg	56	2.6	SW846 8270C
1,2,4-Trichloro-benzene	3330	2890	ug/kg	87		SW846 8270C
	3330	2880	ug/kg	86	0.59	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	75	(40 - 130)
	77	(40 - 130)
2-Fluorophenol	64	(50 - 115)
	62	(50 - 115)
2,4,6-Tribromophenol	99	(30 - 115)
	102	(30 - 115)
Nitrobenzene-d5	67	(45 - 115)
	68	(45 - 115)
Phenol-d5	61	(50 - 120)
	60	(50 - 120)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1I270350 **Work Order #...:** EK9771AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: E1I280000-386 EK9771AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	62	(50 - 140)
	61	(50 - 140)

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 Semivolatiles

Client Lot #...: E1I270350 Work Order #...: EK9771AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: E1I280000-386 EK9771AD-LCSD
Prep Date.....: 09/28/01 Analysis Date..: 09/30/01
Prep Batch #...: 1271386 Analysis Time..: 11:45
Dilution Factor: 1 Instrument ID..: MSE
Analyst ID.....: 010060

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	75	(50 - 125)			SW846 8270C
	75	(50 - 125)	1.2	(0-35)	SW846 8270C
4-Chloro-3-methylphenol	64	(50 - 110)			SW846 8270C
	63	(50 - 110)	2.5	(0-35)	SW846 8270C
2-Chlorophenol	68	(50 - 120)			SW846 8270C
	66	(50 - 120)	3.9	(0-35)	SW846 8270C
1,4-Dichlorobenzene	66	(40 - 115)			SW846 8270C
	65	(40 - 115)	1.5	(0-35)	SW846 8270C
2,4-Dinitrotoluene	87	(40 - 120)			SW846 8270C
	87	(40 - 120)	0.24	(0-35)	SW846 8270C
4-Nitrophenol	48	(10 - 120)			SW846 8270C
	52	(10 - 120)	7.6	(0-35)	SW846 8270C
N-Nitrosodi-n-propyl-amine	68	(40 - 120)			SW846 8270C
	67	(40 - 120)	1.1	(0-35)	SW846 8270C
Pentachlorophenol	80	(20 - 130)			SW846 8270C
	79	(20 - 130)	1.0	(0-35)	SW846 8270C
Phenol	53	(40 - 110)			SW846 8270C
	52	(40 - 110)	1.7	(0-35)	SW846 8270C
Pyrene	58	(50 - 140)			SW846 8270C
	56	(50 - 140)	2.6	(0-35)	SW846 8270C
1,2,4-Trichloro-benzene	87	(50 - 115)			SW846 8270C
	86	(50 - 115)	0.59	(0-35)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	75	(40 - 130)
	77	(40 - 130)
2-Fluorophenol	64	(50 - 115)
	62	(50 - 115)
2,4,6-Tribromophenol	99	(30 - 115)
	102	(30 - 115)
Nitrobenzene-d5	67	(45 - 115)
	68	(45 - 115)
Phenol-d5	61	(50 - 120)
	60	(50 - 120)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1I270350 **Work Order #...:** EK9771AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: E1I280000-386 EK9771AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	62	(50 - 140)
	61	(50 - 140)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1I270350 **Work Order #...:** EK9KN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I280000-272
Prep Date.....: 09/28/01 **Analysis Date..:** 09/28/01
Prep Batch #...: 1271272 **Analysis Time..:** 12:50
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**333**	**360**	**ug/kg**	**108**	**SW846 8082**
Aroclor 1260	**333**	**353**	**ug/kg**	**106**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	114	(60 - 140)
Tetrachloro-m-xylene	79	(60 - 140)

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 #...: E1I270350 **Work Order #...:** EK9XE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I280000-337
Prep Date.....: 09/28/01 **Analysis Date..:** 09/28/01
Prep Batch #...: 1271337 **Analysis Time..:** 01:42
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**5.85**	**mg/kg**	**117**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	114	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1I270350 **Work Order #...:** ELAEF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I280000-404
Prep Date.....: 09/28/01 **Analysis Date..:** 09/28/01
Prep Batch #...: 1271404 **Analysis Time..:** 15:59
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**270**	**mg/kg**	**108**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	99	(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 #...: E1I270350 **Work Order #...:** ELC0J1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I290000-178
Prep Date.....: 09/28/01 **Analysis Date..:** 09/28/01
Prep Batch #...: 1272178 **Analysis Time..:** 09:41
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**49.7**	**ug/kg**	**99**	**SW846 8260B**
Benzene	**50.0**	**50.1**	**ug/kg**	**100**	**SW846 8260B**
Trichloroethene	**50.0**	**50.1**	**ug/kg**	**100**	**SW846 8260B**
Toluene	**50.0**	**46.6**	**ug/kg**	**93**	**SW846 8260B**
Chlorobenzene	**50.0**	**46.8**	**ug/kg**	**94**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(70 - 130)
1,2-Dichloroethane-d4	96	(60 - 140)
Toluene-d8	104	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1I270350 **Work Order #...:** ELC511AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I300000-113
Prep Date.....: 09/28/01 **Analysis Date..:** 09/30/01
Prep Batch #...: 1273113 **Analysis Time..:** 11:14
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**333**	**350**	**ug/kg**	**105**	**SW846 8082**
Aroclor 1260	**333**	**337**	**ug/kg**	**101**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	110	(60 - 140)
Tetrachloro-m-xylene	110	(60 - 140)

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 #...: E1I270350 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1I280000-231 **Prep Batch #...:** 1271231							
Aluminum	200	180	mg/kg	90	SW846 6010B	09/28/01	EK9EJ1AV
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	200	181	mg/kg	90	SW846 6010B	09/28/01	EK9EJ1AW
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	38.7	mg/kg	77	SW846 6010B	09/28/01	EK9EJ1AX
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	197	mg/kg	98	SW846 6010B	09/28/01	EK9EJ1A0
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	4.87	mg/kg	97	SW846 6010B	09/28/01	EK9EJ1A1
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	20.0	mg/kg	100	SW846 6010B	09/28/01	EK9EJ1A2
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	4.84	mg/kg	97	SW846 6010B	09/28/01	EK9EJ1A3
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	45.2	mg/kg	90	SW846 6010B	09/28/01	EK9EJ1A4
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	171	mg/kg	85	SW846 6010B	09/28/01	EK9EJ1A5
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.61	mg/kg	92	SW846 6010B	09/28/01	EK9EJ1A6
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	48.1	mg/kg	96	SW846 6010B	09/28/01	EK9EJ1A7
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	23.9	mg/kg	95	SW846 6010B	09/28/01	EK9EJ1A8
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	94.6	mg/kg	95	SW846 6010B	09/28/01	EK9EJ1A9
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	49.8	mg/kg	100	SW846 6010B	09/28/01	EK9EJ1CA
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	174	mg/kg	87	SW846 6010B	09/28/01	EK9EJ1CC
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	48.9	mg/kg	98	SW846 6010B	09/28/01	EK9EJ1CD
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	49.1	mg/kg	98	SW846 6010B	09/28/01	EK9EJ1CE
			Dilution Factor: 1				
			Analysis Time..: 15:50		Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E1I280000-235 **Prep Batch #...:** 1271235

Mercury	0.833	0.832	mg/kg	100	SW846 7471A	09/28/01	EK9E91AC
			Dilution Factor: 1				
			Analysis Time..: 11:55		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 #...: E1I270350 **Work Order #...:** EK9KN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I280000-272
Prep Date.....: 09/28/01 **Analysis Date..:** 09/28/01
Prep Batch #...: 1271272 **Analysis Time..:** 12:50
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**108**	**(65 - 130)**	**SW846 8082**
Aroclor 1260	**106**	**(70 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	114	(60 - 140)
Tetrachloro-m-xylene	79	(60 - 140)

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 #...: E1I270350 **Work Order #...:** EK9XE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I280000-337
Prep Date.....: 09/28/01 **Analysis Date..:** 09/28/01
Prep Batch #...: 1271337 **Analysis Time..:** 01:42
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**117**	**(80 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	114	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1I270350 **Work Order #...:** ELAEF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I280000-404
Prep Date.....: 09/28/01 **Analysis Date..:** 09/28/01
Prep Batch #...: 1271404 **Analysis Time..:** 15:59
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**108**	**(60 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	99	(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 #...: E1I270350 **Work Order #...:** ELC0J1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I290000-178
Prep Date.....: 09/28/01 **Analysis Date..:** 09/28/01
Prep Batch #...: 1272178 **Analysis Time..:** 09:41
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**99**	**(60 - 150)**	**SW846 8260B**
Benzene	**100**	**(70 - 140)**	**SW846 8260B**
Trichloroethene	**100**	**(70 - 130)**	**SW846 8260B**
Toluene	**93**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**94**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(70 - 130)
1,2-Dichloroethane-d4	96	(60 - 140)
Toluene-d8	104	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1I270350 **Work Order #...:** ELC511AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1I300000-113
Prep Date.....: 09/28/01 **Analysis Date..:** 09/30/01
Prep Batch #...: 1273113 **Analysis Time..:** 11:14
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**105**	**(65 - 130)**	**SW846 8082**
Aroclor 1260	**101**	**(70 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	110	(60 - 140)
Tetrachloro-m-xylene	110	(60 - 140)

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 #...: E1I270350 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1I280000-231 **Prep Batch #...:** 1271231					
Aluminum	90	(70 - 115)	SW846 6010B	09/28/01	EK9EJ1AV
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Arsenic	90	(75 - 115)	SW846 6010B	09/28/01	EK9EJ1AW
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Antimony	77	(75 - 115)	SW846 6010B	09/28/01	EK9EJ1AX
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Barium	98	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1A0
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Cadmium	97	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1A1
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Chromium	100	(85 - 120)	SW846 6010B	09/28/01	EK9EJ1A2
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Beryllium	97	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1A3
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Lead	90	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1A4
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Selenium	85	(70 - 115)	SW846 6010B	09/28/01	EK9EJ1A5
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Silver	92	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1A6
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	96	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1A7
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Copper	95	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1A8
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Molybdenum	95	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1A9
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Nickel	100	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1CA
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Thallium	87	(75 - 125)	SW846 6010B	09/28/01	EK9EJ1CC
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Vanadium	98	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1CD
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01
Zinc	98	(80 - 120)	SW846 6010B	09/28/01	EK9EJ1CE
		Dilution Factor: 1			
		Analysis Time..: 15:50	Analyst ID.....: 021088		Instrument ID..: M01

LCS Lot-Sample#: E1I280000-235 **Prep Batch #...:** 1271235

Mercury	100	(85 - 115)	SW846 7471A	09/28/01	EK9E91AC
		Dilution Factor: 1			
		Analysis Time..: 11:55	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

GC Volatiles

Client Lot #...:	E1I270350	**Work Order #...:**	EK46T1AD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I260206-011		EK46T1AE-MSD		
Date Sampled...:	09/20/01 13:55	**Date Received..:**	09/26/01 10:20	**MS Run #.....:**	1271163
Prep Date.....:	09/28/01	**Analysis Date..:**	09/28/01		
Prep Batch #...:	1271339	**Analysis Time..:**	07:54		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**ND**	**5.00**	**5.71**	**mg/kg**	**114**		**WA-DOE WTPH-G**
	ND	**5.00**	**4.93**	**mg/kg**	**99**	**15**	**WA-DOE WTPH-G**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	117	(60 - 130)
	116	(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 #...:	E1I270350	**Work Order #...:**	EK75R1C7-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I270260-001		EK75R1C8-MSD		
Date Sampled...:	09/20/01 10:00	**Date Received..:**	09/27/01 12:40	**MS Run #.....:**	1272053
Prep Date.....:	09/28/01	**Analysis Date..:**	09/28/01		
Prep Batch #...:	1272178	**Analysis Time..:**	12:31		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**50.6**	**ug/kg**	**101**		**SW846 8260B**
	ND	**50.0**	**52.1**	**ug/kg**	**104**	**3.0**	**SW846 8260B**
Benzene		**50.0**	**51.2**	**ug/kg**	**102**		**SW846 8260B**
		50.0	**50.4**	**ug/kg**	**101**	**1.5**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**54.1**	**ug/kg**	**108**		**SW846 8260B**
	ND	**50.0**	**54.2**	**ug/kg**	**108**	**0.18**	**SW846 8260B**
Toluene		**50.0**	**48.8**	**ug/kg**	**98**		**SW846 8260B**
		50.0	**47.9**	**ug/kg**	**96**	**1.9**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**48.5**	**ug/kg**	**97**		**SW846 8260B**
	ND	**50.0**	**47.3**	**ug/kg**	**95**	**2.5**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(70 - 130)
	93	(70 - 130)
1,2-Dichloroethane-d4	92	(60 - 140)
	95	(60 - 140)
Toluene-d8	103	(70 - 130)
	101	(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

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1I270350-001 **Prep Batch #...:** 1271231									
Aluminum									
	68.5	200	310 N	mg/kg	121		SW846 6010B	09/28/01	EK8XF1A3
	68.5	200	343 N	mg/kg	137	10	SW846 6010B	09/28/01	EK8XF1A4
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Arsenic									
	27.2	200	221	mg/kg	97		SW846 6010B	09/28/01	EK8XF1A5
	27.2	200	215	mg/kg	94	2.6	SW846 6010B	09/28/01	EK8XF1A6
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Antimony									
	1.4	50.0	32.3 N	mg/kg	62		SW846 6010B	09/28/01	EK8XF1A7
	1.4	50.0	34.6 N	mg/kg	66	6.9	SW846 6010B	09/28/01	EK8XF1A8
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Barium									
	11.2	200	208	mg/kg	98		SW846 6010B	09/28/01	EK8XF1A9
	11.2	200	223	mg/kg	106	6.8	SW846 6010B	09/28/01	EK8XF1CA
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Cadmium									
	ND	5.00	1.75 N	mg/kg	35		SW846 6010B	09/28/01	EK8XF1CC
	ND	5.00	2.25 N	mg/kg	45	25	SW846 6010B	09/28/01	EK8XF1CD
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Chromium									
	18.2	20.0	57.6 N	mg/kg	197		SW846 6010B	09/28/01	EK8XF1CE
	18.2	20.0	52.7 N	mg/kg	172	8.9	SW846 6010B	09/28/01	EK8XF1CF
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	ND	5.00	4.44	mg/kg	89		SW846 6010B	09/28/01	EK8XF1CG
	ND	5.00	4.73	mg/kg	95	6.2	SW846 6010B	09/28/01	EK8XF1CH
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Lead									
	29.6	50.0	94.1 N	mg/kg	129		SW846 6010B	09/28/01	EK8XF1CJ
	29.6	50.0	127 N,*	mg/kg	194	30	SW846 6010B	09/28/01	EK8XF1CK
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Selenium									
	8.1	200	185	mg/kg	88		SW846 6010B	09/28/01	EK8XF1CL
	8.1	200	196	mg/kg	94	6.0	SW846 6010B	09/28/01	EK8XF1CM
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Silver									
	ND	5.00	3.94 N	mg/kg	79		SW846 6010B	09/28/01	EK8XF1CN
	ND	5.00	3.94 N	mg/kg	79	0.05	SW846 6010B	09/28/01	EK8XF1CP
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Cobalt									
	9.5	50.0	62.2	mg/kg	105		SW846 6010B	09/28/01	EK8XF1CQ
	9.5	50.0	63.9	mg/kg	109	2.7	SW846 6010B	09/28/01	EK8XF1CR
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Copper									
	43.9	25.0	119 N	mg/kg	301		SW846 6010B	09/28/01	EK8XF1CT
	43.9	25.0	108 N	mg/kg	258	9.3	SW846 6010B	09/28/01	EK8XF1CU
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	8.9	100	106	mg/kg	97		SW846 6010B	09/28/01	EK8XF1CV
	8.9	100	110	mg/kg	101	3.7	SW846 6010B	09/28/01	EK8XF1CW
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Nickel									
	188	50.0	401 N	mg/kg	426		SW846 6010B	09/28/01	EK8XF1CX
	188	50.0	411 N	mg/kg	445	2.4	SW846 6010B	09/28/01	EK8XF1C0
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Thallium									
	1.7	200	162	mg/kg	80		SW846 6010B	09/28/01	EK8XF1C1
	1.7	200	173	mg/kg	86	6.5	SW846 6010B	09/28/01	EK8XF1C2
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Vanadium									
	282	50.0	607 NC	mg/kg			SW846 6010B	09/28/01	EK8XF1C3
	282	50.0	577 NC	mg/kg			SW846 6010B	09/28/01	EK8XF1C4
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						
Zinc									
	10.1	50.0	72.2 N	mg/kg	124		SW846 6010B	09/28/01	EK8XF1C5
	10.1	50.0	74.5 N	mg/kg	129	3.1	SW846 6010B	09/28/01	EK8XF1C6
			Dilution Factor: 1						
			Analysis Time..: 17:43		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1271097						

MS Lot-Sample #: E1I270350-001 **Prep Batch #...:** 1271235

Mercury									
	0.41	0.167	0.375 N	mg/kg	0.0		SW846 7471A	09/28/01	EK8XF1C7
	0.41	0.167	0.492 N,*	mg/kg	51	200	SW846 7471A	09/28/01	EK8XF1C8
			Dilution Factor: 1						
			Analysis Time..: 11:59		Instrument ID..: M04			Analyst ID.....: 000023	
			MS Run #.....: 1271101						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E1I270350	**Work Order #...:**	EK8XF1C9-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I270350-001		EK8XF1DA-MSD		
Date Sampled...:	09/27/01 15:00	**Date Received..:**	09/27/01 19:00	**MS Run #.....:**	1271135
Prep Date.....:	09/28/01	**Analysis Date..:**	09/28/01		
Prep Batch #...:	1271272	**Analysis Time..:**	14:10		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**ND**	**333**	**307**	**ug/kg**	**92**		**SW846 8082**
	ND	**333**	**285**	**ug/kg**	**85**	**7.7**	**SW846 8082**
Aroclor 1260	**25**	**333**	**369**	**ug/kg**	**103**		**SW846 8082**
	25	**333**	**345**	**ug/kg**	**96**	**6.7**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	117	(60 - 140)
	109	(60 - 140)
Tetrachloro-m-xylene	90	(60 - 140)
	85	(60 - 140)

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 #...:	E1I270350	**Work Order #...:**	EK8XF1DD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I270350-001		EK8XF1DE-MSD		
Date Sampled...:	09/27/01 15:00	**Date Received..:**	09/27/01 19:00	**MS Run #.....:**	1271205
Prep Date.....:	09/28/01	**Analysis Date..:**	09/28/01		
Prep Batch #...:	1271404	**Analysis Time..:**	17:55		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	**ND**	**250**	**226**	**mg/kg**	**90**		**SW846 8015B**
	ND	**250**	**242**	**mg/kg**	**97**	**6.7**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	65	(60 - 130)
	58 *	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

Client Lot #...: **Work Order #...:** **Matrix.....:**
MS Lot-Sample #:

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
	288	**333**	**288**	**ug/kg**		**7.7**	**SW846 8082**
	664	**333**	**664**	**ug/kg**		**6.7**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	343	(60 - 140)
	82	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E1I270350	**Work Order #...:**	EK46T1AD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I260206-011		EK46T1AE-MSD		
Date Sampled...:	09/20/01 13:55	**Date Received..:**	09/26/01 10:20	**MS Run #.....:**	1271163
Prep Date.....:	09/28/01	**Analysis Date..:**	09/28/01		
Prep Batch #...:	1271339	**Analysis Time..:**	07:54		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**114**	**(80 - 140)**			**WA-DOE WTPH-G**
	99	**(80 - 140)**	**15**	**(0-40)**	**WA-DOE WTPH-G**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	117	(60 - 130)
	116	(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 #...:	E1I270350	**Work Order #...:**	EK75R1C7-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I270260-001		EK75R1C8-MSD		
Date Sampled...:	09/20/01 10:00	**Date Received..:**	09/27/01 12:40	**MS Run #.....:**	1272053
Prep Date.....:	09/28/01	**Analysis Date..:**	09/28/01		
Prep Batch #...:	1272178	**Analysis Time..:**	12:31		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**101**	**(60 - 150)**			**SW846 8260B**
	104	**(60 - 150)**	**3.0**	**(0-30)**	**SW846 8260B**
Benzene	**102**	**(70 - 140)**			**SW846 8260B**
	101	**(70 - 140)**	**1.5**	**(0-30)**	**SW846 8260B**
Trichloroethene	**108**	**(70 - 130)**			**SW846 8260B**
	108	**(70 - 130)**	**0.18**	**(0-30)**	**SW846 8260B**
Toluene	**98**	**(70 - 130)**			**SW846 8260B**
	96	**(70 - 130)**	**1.9**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**97**	**(70 - 130)**			**SW846 8260B**
	95	**(70 - 130)**	**2.5**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(70 - 130)
	93	(70 - 130)
1,2-Dichloroethane-d4	92	(60 - 140)
	95	(60 - 140)
Toluene-d8	103	(70 - 130)
	101	(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

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1I270350-001 **Prep Batch #...:** 1271231							
Aluminum	121 N	(70 - 115)			SW846 6010B	09/28/01	EK8XF1A3
	137 N	(70 - 115)	10	(0-25)	SW846 6010B	09/28/01	EK8XF1A4
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Arsenic	97	(75 - 115)			SW846 6010B	09/28/01	EK8XF1A5
	94	(75 - 115)	2.6	(0-25)	SW846 6010B	09/28/01	EK8XF1A6
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Antimony	62 N	(75 - 115)			SW846 6010B	09/28/01	EK8XF1A7
	66 N	(75 - 115)	6.9	(0-25)	SW846 6010B	09/28/01	EK8XF1A8
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Barium	98	(80 - 120)			SW846 6010B	09/28/01	EK8XF1A9
	106	(80 - 120)	6.8	(0-25)	SW846 6010B	09/28/01	EK8XF1CA
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Cadmium	35 N	(80 - 120)			SW846 6010B	09/28/01	EK8XF1CC
	45 N	(80 - 120)	25	(0-25)	SW846 6010B	09/28/01	EK8XF1CD
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Chromium	197 N	(85 - 120)			SW846 6010B	09/28/01	EK8XF1CE
	172 N	(85 - 120)	8.9	(0-25)	SW846 6010B	09/28/01	EK8XF1CF
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Beryllium	89	(80 - 120)			SW846 6010B	09/28/01	EK8XF1CG
	95	(80 - 120)	6.2	(0-25)	SW846 6010B	09/28/01	EK8XF1CH
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	129 N	(80 - 120)			SW846 6010B	09/28/01	EK8XF1CJ
	194 N,*	(80 - 120)	30	(0-25)	SW846 6010B	09/28/01	EK8XF1CK
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Selenium	88	(70 - 115)			SW846 6010B	09/28/01	EK8XF1CL
	94	(70 - 115)	6.0	(0-25)	SW846 6010B	09/28/01	EK8XF1CM
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Silver	79 N	(80 - 120)			SW846 6010B	09/28/01	EK8XF1CN
	79 N	(80 - 120)	0.05	(0-25)	SW846 6010B	09/28/01	EK8XF1CP
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Cobalt	105	(80 - 120)			SW846 6010B	09/28/01	EK8XF1CQ
	109	(80 - 120)	2.7	(0-25)	SW846 6010B	09/28/01	EK8XF1CR
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Copper	301 N	(80 - 120)			SW846 6010B	09/28/01	EK8XF1CT
	258 N	(80 - 120)	9.3	(0-25)	SW846 6010B	09/28/01	EK8XF1CU
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Molybdenum	97	(80 - 120)			SW846 6010B	09/28/01	EK8XF1CV
	101	(80 - 120)	3.7	(0-25)	SW846 6010B	09/28/01	EK8XF1CW
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					
Nickel	426 N	(80 - 120)			SW846 6010B	09/28/01	EK8XF1CX
	445 N	(80 - 120)	2.4	(0-25)	SW846 6010B	09/28/01	EK8XF1C0
		Dilution Factor: 1					
		Analysis Time..: 17:43			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1271097					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1I270350 **Matrix.....:** SOLID
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	80	(75 - 125)			SW846 6010B	09/28/01	EK8XF1C1
	86	(75 - 125)	6.5	(0-25)	SW846 6010B	09/28/01	EK8XF1C2

Dilution Factor: 1
Analysis Time..: 17:43 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1271097

Vanadium	NC	(80 - 120)			SW846 6010B	09/28/01	EK8XF1C3
	NC	(80 - 120)		(0-25)	SW846 6010B	09/28/01	EK8XF1C4

Dilution Factor: 1
Analysis Time..: 17:43 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1271097

Zinc	124 N	(80 - 120)			SW846 6010B	09/28/01	EK8XF1C5
	129 N	(80 - 120)	3.1	(0-25)	SW846 6010B	09/28/01	EK8XF1C6

Dilution Factor: 1
Analysis Time..: 17:43 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 1271097

MS Lot-Sample #: E1I270350-001 **Prep Batch #...:** 1271235

Mercury	0.0 N	(80 - 120)			SW846 7471A	09/28/01	EK8XF1C7
	51 N,*	(80 - 120)	200	(0-20)	SW846 7471A	09/28/01	EK8XF1C8

Dilution Factor: 1
Analysis Time..: 11:59 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 1271101

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E1I270350	**Work Order #...:**	EK8XF1C9-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I270350-001		EK8XF1DA-MSD		
Date Sampled...:	09/27/01 15:00	**Date Received..:**	09/27/01 19:00	**MS Run #.....:**	1271135
Prep Date.....:	09/28/01	**Analysis Date..:**	09/28/01		
Prep Batch #...:	1271272	**Analysis Time..:**	14:10		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**92**	**(65 - 130)**			**SW846 8082**
	85	**(65 - 130)**	**7.7**	**(0-30)**	**SW846 8082**
Aroclor 1260	**103**	**(70 - 130)**			**SW846 8082**
	96	**(70 - 130)**	**6.7**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	117	(60 - 140)
	109	(60 - 140)
Tetrachloro-m-xylene	90	(60 - 140)
	85	(60 - 140)

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 #...:	E1I270350	**Work Order #...:**	EK8XF1DD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I270350-001		EK8XF1DE-MSD		
Date Sampled...:	09/27/01 15:00	**Date Received..:**	09/27/01 19:00	**MS Run #.....:**	1271205
Prep Date.....:	09/28/01	**Analysis Date..:**	09/28/01		
Prep Batch #...:	1271404	**Analysis Time..:**	17:55		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**90**	**(60 - 130)**			**SW846 8015B**
	97	**(60 - 130)**	**6.7**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	65	(60 - 130)
	58 *	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

Client Lot #...: **Work Order #...:** **Matrix.....:**
MS Lot-Sample #:

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
		(65 - 130)	**7.7**	**(0-30)**	**SW846 8082**
		(70 - 130)	**6.7**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	343	(60 - 140)
	82	(60 - 140)

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

Lot-Sample #...: E1I270350 **Work Order #...:** EK8XF2C9 **Matrix.....:** SOLID
MS Lot-Sample #: E1I270350-001
Date Sampled...: 09/27/01 15:00 **Date Received..:** 09/27/01 19:00
Prep Date.....: 09/28/01 **Analysis Date..:** 09/30/01
Prep Batch #...: 1273113 **MS Run #.....:** 1273017
Dilution Factor: 1 **Analyst ID.....:** 018568 **Instrument ID..:** G8B

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**309**	**333**	**309**	**ug/kg**	**0**	**SW846 8082**
Aroclor 1260	**324**	**333**	**324**	**ug/kg**	**0**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	103	(60 - 140)
Tetrachloro-m-xylene	95	(60 - 140)

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

Lot-Sample #...:	E1I270350	**Work Order #...:**	EK8XF2C9	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1I270350-001				
Date Sampled...:	09/27/01 15:00	**Date Received..:**	09/27/01 19:00		
Prep Date.....:	09/28/01	**Analysis Date..:**	09/30/01		
Prep Batch #...:	1273113	**MS Run #.....:**	1273017		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**0**	**(65 - 130)**	**SW846 8082**
Aroclor 1260	**0**	**(70 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	103	(60 - 140)
Tetrachloro-m-xylene	95	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

Subcontracted Analysis

000068

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

LABORATORY REPORT

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

Attention: Diane Suzuki
Project: E1I270350

Sampled: 09/27/01
Received: 09/28/01
Reported: 10/01/01

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

CA ELAP Certificate #1169
AZ DHS License #AZ0062

l Mar Analytical, Colton
ıfton J. Kiser
roject Manager

000069

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

Client Project ID: E1I270350

Report Number: CKI0292

Sampled:09/27/01
Received:09/28/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKI0292-01 (BUILD_1_B_15_092701-10 - Soil)								
cenaphthene	EPA 8310	C1J0101	200	ND	4	10/1/01	10/1/01	
cenaphthylene	EPA 8310	C1J0101	800	ND	4	10/1/01	10/1/01	
nthracene	EPA 8310	C1J0101	8.0	ND	4	10/1/01	10/1/01	
enzo(a)anthracene	EPA 8310	C1J0101	8.0	**10**	4	10/1/01	10/1/01	
enzo(a)pyrene	EPA 8310	C1J0101	8.0	**11**	4	10/1/01	10/1/01	
enzo(b)fluoranthene	EPA 8310	C1J0101	20	ND	4	10/1/01	10/1/01	
enzo(g,h,i)perylene	EPA 8310	C1J0101	20	ND	4	10/1/01	10/1/01	
enzo(k)fluoranthene	EPA 8310	C1J0101	8.0	ND	4	10/1/01	10/1/01	
hrysene	EPA 8310	C1J0101	20	ND	4	10/1/01	10/1/01	
ibenzo(a,h)anthracene	EPA 8310	C1J0101	20	ND	4	10/1/01	10/1/01	
luoranthene	EPA 8310	C1J0101	20	**29**	4	10/1/01	10/1/01	
uorene	EPA 8310	C1J0101	20	ND	4	10/1/01	10/1/01	
deno(1,2,3-cd)pyrene	EPA 8310	C1J0101	20	ND	4	10/1/01	10/1/01	
aphthalene	EPA 8310	C1J0101	160	ND	4	10/1/01	10/1/01	
ıenanthrene	EPA 8310	C1J0101	20	ND	4	10/1/01	10/1/01	
yrene	EPA 8310	C1J0101	20	**25**	4	10/1/01	10/1/01	
Surrogate: 2-Methylanthracene (35-115%)				*63.8 %*				

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oject Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

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

Client Project ID: E1I270350

Report Number: CKI0292

Sampled:09/27/01
Received:09/28/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
tch: C1J0101 Extracted: 10/01/01										
Blank Analyzed: 10/01/01 (C1J0101-BLK1)										
enaphthene	ND	50	ug/kg							
enaphthylene	ND	200	ug/kg							
nthracene	ND	2.0	ug/kg							
enzo(a)anthracene	ND	2.0	ug/kg							
nzo(a)pyrene	ND	2.0	ug/kg							
nzo(b)fluoranthene	ND	5.0	ug/kg							
enzo(g,h,i)perylene	ND	5.0	ug/kg							
nzo(k)fluoranthene	ND	2.0	ug/kg							
rysene	ND	5.0	ug/kg							
ibenzo(a,h)anthracene	ND	5.0	ug/kg							
oranthene	ND	5.0	ug/kg							
orene	ND	5.0	ug/kg							
deno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
aphthalene	ND	40	ug/kg							
enanthrene	ND	5.0	ug/kg							
ene	ND	5.0	ug/kg							
urrogate: 2-Methylanthracene	*5.54*		*ug/kg*	*8.00*		*69.2*	*35-115*			
S Analyzed: 10/01/01 (C1J0101-BS1)										
enaphthene	116	50	ug/kg	160		72.5	45-115			
cenaphthylene	301	200	ug/kg	320		94.1	50-115			
thracene	11.2	2.0	ug/kg	16.0		70.0	55-115			
nzo(a)anthracene	14.2	2.0	ug/kg	16.0		88.8	65-115			
enzo(a)pyrene	11.9	2.0	ug/kg	16.0		74.4	55-115			
nzo(b)fluoranthene	27.9	5.0	ug/kg	32.0		87.2	65-115			
nzo(g,h,i)perylene	26.2	5.0	ug/kg	32.0		81.9	60-115			
enzo(k)fluoranthene	13.2	2.0	ug/kg	16.0		82.5	65-115			
hrysene	14.4	5.0	ug/kg	16.0		90.0	65-115			
enzo(a,h)anthracene	29.8	5.0	ug/kg	32.0		93.1	60-115			
oranthene	27.6	5.0	ug/kg	32.0		86.2	65-115			
luorene	24.6	5.0	ug/kg	32.0		76.9	55-115			
eno(1,2,3-cd)pyrene	13.8	5.0	ug/kg	16.0		86.2	55-115			
phthalene	142	40	ug/kg	160		88.8	45-115			
henanthrene	13.0	5.0	ug/kg	16.0		81.2	55-120			
yrene	13.4	5.0	ug/kg	16.0		83.8	55-115			

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

Client Project ID: E1I270350

Report Number: CKI0292

Sampled:09/27/01
Received:09/28/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

.nalyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
atch: C1J0101 Extracted: 10/01/01										
CS Analyzed: 10/01/01 (C1J0101-BS1)										
rrogate: 2-Methylanthracene	*5.49*		*ug/kg*	*8.00*		*68.6*	*35-115*			

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ifton J. Kiser
oject Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

:TL Los Angeles
.721 S. Grand Avenue
Santa Ana, CA 92705
\ttention: Diane Suzuki

Client Project ID: E1I270350

Report Number: CKI0292

Sampled:09/27/01
Received:09/28/01

DATA QUALIFIERS AND DEFINITIONS

.ID	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
:PD	Relative Percent Difference

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roject Manager

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[redacted]

Chain of Custody Record

STL-4124 (0700)

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

BOE-C6-0180865

Client: STL-LA	Project Manager: DIANE SUZUKI	Date: 09/27/2001	Chain of Custody Number: 049683
Address: 1721 SOUTH GRAND	Telephone Number (Area Code)/Fax Number: (714) 258-8610 EXT 309	Lab Number: E1I270350	Page 1 of 1
City: SANTA ANA; State: CA; Zip Code: 92705	Site Contact:	Lab Contact: DSUZUKI	
Project Name and Location (State): BOEING C-6	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): PAH	Special Instructions/ Conditions of Receipt
BUILD-1-B-15-092701-10	9/27/01	1500				X	X						X	24 TAT

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

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

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	09/27/01		1. Received By: [signature]	9-28-01	1100
2. Relinquished By: [signature]	9-28-01	1100	2. Received By: Laura Morga	9/28/01	11:00
3. Relinquished By: Laura Morga	9/28/01	12:00	3. Received By: Eonie Schelke	9-28-01	12:00

Comments

Received at 7°C

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

000024

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

October 10, 2001

STL LOT NUMBER: E1J020150
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 requested on October 2, 2001. This sample is associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. Any matrix related anomaly is footnoted within the report. The PAHs by 8310 analysis was performed by Del Mar Analytical. See attached report for any related anomaly.

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

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

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

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

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0180866

SEVERN TRENT SERVICES

CHANGE ORDER

Lab Analysis No.	EIJ020150
Client Name	Haley & Aldrich
Contact	Travis Hammond

- [ ] CANCEL Work
- [x] ADD Work
- [ ] Chain of Custody Discrepancy
- [ ] TAT Change
- [ ] Matrix
- [ ] Sample Problem
- [ ] Tests Not Defined
- [ ] Other

EXPLANATION/RESOLUTION

EIJ280358-004

Bldg-1-B-15-092801-16'
Anaylze for CCR Metals (+Al)
PCB, 8260VOC, 8270SVOC,
TPHCC, PAH

ASAP

Initiated By: [signature]

Date/Time: 10/1/01

Received By: _____

Date/Time: _____

000002

Distribution:
Original - Sample Control/Job Folder; Yellow - Lab; Pink - Initiator

ENS—3008

BOE-C6-0180867

Chain of Custody Record

EII280358-004

RESUBMIT TO EIJ020150

SEVERN TRENT SERVICES — Severn Trent Laborato

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 9/28/01	Chain of Custody Number: 054103
Address: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number:	Page 1 of
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact:	Lab Contact:	
Project Name and Location (State): BOEING C6 - TORRANCE	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 27285-001			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	?	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): ARSENIC	Special Instructions/Conditions
PD-227-1'	9/28/01	3:30				X		X						X	
PD-227-4'	9/28/01	3:30				X		X						X	
BLDG-1-B-15-092701-10'	9/27/01	3:00					X	X							BAG + JAR → EXTRA FOR LAB USE
BLDG-1-B-15-092801-16'	9/28/01	10:00					X	X							HOLD FOR METALS, PCB, VOC, TPH, PAH FOR RESULTS OF 10'

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 ASAP

QC Requirements (Specify):

1. Relinquished By: TRAVIS HAMMOND	Date: 9/28/01	Time: 16:15	1. Received By:	Date: 9/28/01	Time: 16[illegible]
2. Relinquished By:	Date: 9/28/01	Time: 1745	2. Received By:	Date: 9/28/01	Time: [illegible]
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	

Comments:

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

000003

BOE-C6-0180868

SEVERN
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SERVICES

Analytical Report

000004

EXECUTIVE SUMMARY - Detection Highlights

E1J020150

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
BLDG_1_B15_092701_16 09/28/01 10:00 001				
C20-C23	8.5 J	10	mg/kg	SW846 8015B
C24-C27	13	10	mg/kg	SW846 8015B
C28-C31	9.1 J	10	mg/kg	SW846 8015B
C32-C35	9.6 J	10	mg/kg	SW846 8015B
C36-C39	6.7 J	10	mg/kg	SW846 8015B
C40+	7.2 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	62	10	mg/kg	SW846 8015B
Aroclor 1260	64	33	ug/kg	SW846 8082
C6-C8	0.17 J,B	1.0	mg/kg	SW846 8015B
Mercury	0.060 B	0.10	mg/kg	SW846 7471A
Aluminum	24100	20.0	mg/kg	SW846 6010B
Arsenic	4.6	1.0	mg/kg	SW846 6010B
Antimony	0.77 B	6.0	mg/kg	SW846 6010B
Barium	175	2.0	mg/kg	SW846 6010B
Cadmium	0.24 B	0.50	mg/kg	SW846 6010B
Chromium	30.3	1.0	mg/kg	SW846 6010B
Beryllium	0.67	0.50	mg/kg	SW846 6010B
Lead	97.1	0.50	mg/kg	SW846 6010B
Cobalt	12.9	5.0	mg/kg	SW846 6010B
Copper	34.4	2.5	mg/kg	SW846 6010B
Molybdenum	0.83 B	4.0	mg/kg	SW846 6010B
Nickel	31.9	4.0	mg/kg	SW846 6010B
Vanadium	72.6	5.0	mg/kg	SW846 6010B
Zinc	87.7	2.0	mg/kg	SW846 6010B
Anthracene	86 J	330	ug/kg	SW846 8270C
Benzo(a)anthracene	1100	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	2100	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	220 J	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	720	330	ug/kg	SW846 8270C
Benzo(a)pyrene	1200	330	ug/kg	SW846 8270C
Chrysene	1300	330	ug/kg	SW846 8270C
Fluoranthene	1600	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	670	330	ug/kg	SW846 8270C
Phenanthrene	460	330	ug/kg	SW846 8270C
Pyrene	1500	330	ug/kg	SW846 8270C
1,2-Dichloroethane	1.2 J	5.0	ug/kg	SW846 8260B

METHODS SUMMARY

E1J020150

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
PCBs by SW-846 8082	SW846 8082	SW846 3550
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
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

E1J020150

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
ELE2N	001	BLDG_1_B15_092701_16	09/28/01	10:00

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: BLDG_1_B15_092701_16

GC Semivolatiles

Lot-Sample #...:	E1J020150-001	**Work Order #...:**	ELE2N1AA	**Matrix.....:**	SOLID
Date Sampled...:	09/28/01 10:00	**Date Received..:**	09/28/01 17:45	**MS Run #.....:**	1275157
Prep Date.....:	10/02/01	**Analysis Date..:**	10/03/01		
Prep Batch #...:	1275319	**Analysis Time..:**	10:32		
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	**8.5 J**	**10**	**mg/kg**	**5.0**
C24-C27	**13**	**10**	**mg/kg**	**5.0**
C28-C31	**9.1 J**	**10**	**mg/kg**	**5.0**
C32-C35	**9.6 J**	**10**	**mg/kg**	**5.0**
C36-C39	**6.7 J**	**10**	**mg/kg**	**5.0**
C40+	**7.2 J**	**10**	**mg/kg**	**5.0**
Total Carbon Chain Range	**62**	**10**	**mg/kg**	**5.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	110	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: BLDG_1_B15_092701_16

GC Volatiles

Lot-Sample #...:	E1J020150-001	Work Order #...:	ELE2N1AC	Matrix.....:	SOLID
Date Sampled...:	09/28/01 10:00	Date Received..:	09/28/01 17:45	MS Run #.....:	1276107
Prep Date.....:	10/02/01	Analysis Date..:	10/02/01		
Prep Batch #...:	1276276	Analysis Time..:	13:27		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G15		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	0.17 J,B	1.0	mg/kg	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	91	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

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

HALEY & ALDRICH INC

Client Sample ID: BLDG_1_B15_092701_16

GC Semivolatiles

Lot-Sample #...:	E1J020150-001	**Work Order #...:**	ELE2N1AG	**Matrix.....:**	SOLID
Date Sampled...:	09/28/01 10:00	**Date Received..:**	09/28/01 17:45	**MS Run #.....:**	1275151
Prep Date.....:	10/02/01	**Analysis Date..:**	10/02/01		
Prep Batch #...:	1275312	**Analysis Time..:**	16:00		
Dilution Factor:	1				
Analyst ID.....:	018568	**Instrument ID..:**	G8B		
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	10
Aroclor 1221	ND	33	ug/kg	10
Aroclor 1232	ND	33	ug/kg	10
Aroclor 1242	ND	33	ug/kg	10
Aroclor 1248	ND	33	ug/kg	10
Aroclor 1254	ND	33	ug/kg	10
Aroclor 1260	**64**	**33**	**ug/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	122	(60 - 140)
Tetrachloro-m-xylene	97	(60 - 140)

HALEY & ALDRICH INC

Client Sample ID: BLDG_1_B15_092701_16

GC/MS Volatiles

Lot-Sample #...: E1J020150-001 **Work Order #...:** ELE2N1AD **Matrix.....:** SOLID
Date Sampled...: 09/28/01 10:00 **Date Received..:** 09/28/01 17:45 **MS Run #.....:** 1275263
Prep Date.....: 10/02/01 **Analysis Date..:** 10/02/01
Prep Batch #...: 1275504 **Analysis Time..:** 13:53
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
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	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
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	10
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	**1.2 J**	**5.0**	**ug/kg**	**1.0**
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: BLDG_1_B15_092701_16

GC/MS Volatiles

Lot-Sample #...: E1J020150-001 **Work Order #...:** ELE2N1AD **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	5.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(70 - 130)
1,2-Dichloroethane-d4	78	(60 - 140)
Toluene-d8	93	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: BLDG_1_B15_092701_16

GC/MS Semivolatiles

Lot-Sample #...: E1J020150-001 **Work Order #...:** ELE2N1AE **Matrix.....:** SOLID
Date Sampled...: 09/28/01 10:00 **Date Received..:** 09/28/01 17:45 **MS Run #.....:** 1275162
Prep Date.....: 10/02/01 **Analysis Date..:** 10/03/01
Prep Batch #...: 1275325 **Analysis Time..:** 10:11
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSI
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	330	ug/kg	100
Acenaphthylene	ND	330	ug/kg	100
Anthracene	**86 J**	**330**	**ug/kg**	**80**
Benzo(a)anthracene	**1100**	**330**	**ug/kg**	**100**
Benzo(b)fluoranthene	**2100**	**330**	**ug/kg**	**100**
Benzo(k)fluoranthene	**220 J**	**330**	**ug/kg**	**200**
Benzo(ghi)perylene	**720**	**330**	**ug/kg**	**150**
Benzo(a)pyrene	**1200**	**330**	**ug/kg**	**70**
Benzoic acid	ND	1600	ug/kg	500
Benzyl alcohol	ND	330	ug/kg	100
bis(2-Chloroethoxy) methane	ND	330	ug/kg	100
bis(2-Chloroethyl)-ether	ND	330	ug/kg	100
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	110
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	200
4-Bromophenyl phenyl ether	ND	330	ug/kg	80
Butyl benzyl phthalate	ND	330	ug/kg	100
Carbazole	ND	330	ug/kg	80
4-Chloroaniline	ND	330	ug/kg	150
4-Chloro-3-methylphenol	ND	330	ug/kg	100
2-Chloronaphthalene	ND	330	ug/kg	100
2-Chlorophenol	ND	330	ug/kg	150
4-Chlorophenyl phenyl ether	ND	330	ug/kg	90
Chrysene	**1300**	**330**	**ug/kg**	**100**
Dibenz(a,h)anthracene	ND	330	ug/kg	100
Dibenzofuran	ND	330	ug/kg	90
Di-n-butyl phthalate	ND	330	ug/kg	100
1,2-Dichlorobenzene	ND	330	ug/kg	130
1,3-Dichlorobenzene	ND	330	ug/kg	130
1,4-Dichlorobenzene	ND	330	ug/kg	130
3,3'-Dichlorobenzidine	ND	1600	ug/kg	400
2,4-Dichlorophenol	ND	330	ug/kg	90

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HALEY & ALDRICH INC

Client Sample ID: BLDG_1_B15_092701_16

GC/MS Semivolatiles

Lot-Sample #...: E1J020150-001 **Work Order #...:** ELE2N1AE **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	330	ug/kg	100
2,4-Dimethylphenol	ND	330	ug/kg	100
Dimethyl phthalate	ND	330	ug/kg	80
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	300
2,4-Dinitrophenol	ND	1600	ug/kg	500
2,4-Dinitrotoluene	ND	330	ug/kg	100
2,6-Dinitrotoluene	ND	330	ug/kg	90
Di-n-octyl phthalate	ND	330	ug/kg	110
Fluoranthene	**1600**	**330**	**ug/kg**	**70**
Fluorene	ND	330	ug/kg	90
Hexachlorobenzene	ND	330	ug/kg	80
Hexachlorobutadiene	ND	330	ug/kg	100
Hexachlorocyclopentadiene	ND	1600	ug/kg	370
Hexachloroethane	ND	330	ug/kg	130
Indeno(1,2,3-cd)pyrene	**670**	**330**	**ug/kg**	**100**
Isophorone	ND	330	ug/kg	100
2-Methylnaphthalene	ND	330	ug/kg	90
2-Methylphenol	ND	330	ug/kg	80
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	100
Naphthalene	ND	330	ug/kg	90
2-Nitroaniline	ND	1600	ug/kg	300
3-Nitroaniline	ND	1600	ug/kg	350
4-Nitroaniline	ND	1600	ug/kg	200
Nitrobenzene	ND	330	ug/kg	150
2-Nitrophenol	ND	330	ug/kg	100
4-Nitrophenol	ND	1600	ug/kg	400
N-Nitrosodiphenylamine	ND	330	ug/kg	80
N-Nitrosodi-n-propylamine	ND	330	ug/kg	90
Pentachlorophenol	ND	1600	ug/kg	420
Phenanthrene	**460**	**330**	**ug/kg**	**80**
Phenol	ND	330	ug/kg	100
Pyrene	**1500**	**330**	**ug/kg**	**120**
1,2,4-Trichlorobenzene	ND	330	ug/kg	100
2,4,5-Trichlorophenol	ND	330	ug/kg	100
2,4,6-Trichlorophenol	ND	330	ug/kg	70

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HALEY & ALDRICH INC

Client Sample ID: BLDG_1_B15_092701_16

GC/MS Semivolatiles

Lot-Sample #...: E1J020150-001 Work Order #...: ELE2N1AE Matrix.....: SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	82	(40 - 130)
2-Fluorophenol	68	(50 - 115)
2,4,6-Tribromophenol	93	(30 - 115)
Nitrobenzene-d5	79	(45 - 115)
Phenol-d5	76	(50 - 120)
Terphenyl-d14	92	(50 - 140)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: BLDG_1_B15_092701_16

TOTAL Metals

Lot-Sample #...: E1J020150-001 Matrix.....: SOLID
Date Sampled...: 09/28/01 10:00 Date Received..: 09/28/01 17:45

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1275306						
Aluminum	24100	20.0	mg/kg	SW846 6010B	10/02/01	ELE2N1AH
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 8.0	
Arsenic	4.6	1.0	mg/kg	SW846 6010B	10/02/01	ELE2N1AJ
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.40	
Antimony	0.77 B	6.0	mg/kg	SW846 6010B	10/02/01	ELE2N1AK
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.60	
Barium	175	2.0	mg/kg	SW846 6010B	10/02/01	ELE2N1AL
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.10	
Cadmium	0.24 B	0.50	mg/kg	SW846 6010B	10/02/01	ELE2N1AM
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.060	
Chromium	30.3	1.0	mg/kg	SW846 6010B	10/02/01	ELE2N1AN
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.10	
Beryllium	0.67	0.50	mg/kg	SW846 6010B	10/02/01	ELE2N1AP
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.050	
Lead	97.1	0.50	mg/kg	SW846 6010B	10/02/01	ELE2N1AQ
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELE2N1AR
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.40	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELE2N1AT
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.10	

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HALEY & ALDRICH INC

Client Sample ID: BLDG_1_B15_092701_16

TOTAL Metals

Lot-Sample #...: E1J020150-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	**12.9**	**5.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELE2N1AU**
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.10	
Copper	**34.4**	**2.5**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELE2N1AV**
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.40	
Molybdenum	**0.83 B**	**4.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELE2N1AW**
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.30	
Nickel	**31.9**	**4.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELE2N1AX**
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELE2N1A0
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.80	
Vanadium	**72.6**	**5.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELE2N1A1**
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 0.10	
Zinc	**87.7**	**2.0**	**mg/kg**	**SW846 6010B**	**10/02/01**	**ELE2N1A2**
		Dilution Factor: 1		Analysis Time..: 16:16	Analyst ID.....: 0210886	
		Instrument ID..: M01		MS Run #.....: 1275136	MDL.....: 1.0	

Prep Batch #...: 1275308

Mercury	**0.060 B**	**0.10**	**mg/kg**	**SW846 7471A**	**10/02/01**	**ELE2N1A3**
		Dilution Factor: 1		Analysis Time..: 13:42	Analyst ID.....: 0000236	
		Instrument ID..: M04		MS Run #.....: 1275137	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E1J020150

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		1275319	1275157
	SOLID	SW846 8015B		1276276	1276107
	SOLID	SW846 7471A		1275308	1275137
	SOLID	SW846 8082		1275312	1275151
	SOLID	SW846 8260B		1275504	1275263
	SOLID	SW846 8270C		1275325	1275162
	SOLID	SW846 6010B		1275306	1275136

SEVERN
TRENT
SERVICES

QA/QC

000019

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1J020150
MB Lot-Sample #: E1J020000-312

Work Order #...: ELE8D1AA

Matrix.....: SOLID

Prep Date.....: 10/02/01

Analysis Time..: 14:01

Analysis Date..: 10/02/01

Prep Batch #...: 1275312

Instrument ID..: G8B

Dilution Factor: 1

Analyst ID.....: 018568

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	114	(60 - 140)
Tetrachloro-m-xylene	64	(60 - 140)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1J020150
MB Lot-Sample #: E1J020000-319

Work Order #...: ELFAN1AA

Matrix.....: SOLID

Prep Date.....: 10/02/01

Analysis Time..: 09:14

Analysis Date..: 10/03/01

Prep Batch #...: 1275319

Instrument ID..: G02

Dilution Factor: 1

Analyst ID.....: 356074

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	95	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1J020150
MB Lot-Sample #: E1J020000-325
Analysis Date..: 10/03/01
Dilution Factor: 1

Work Order #...: ELFAX1AA
Prep Date.....: 10/02/01
Prep Batch #...: 1275325
Analyst ID.....: 004648

Matrix.....: SOLID
Analysis Time..: 09:06
Instrument ID..: MSI

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1J020150 **Work Order #...:** ELFAX1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopentadiene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	78	(40 - 130)
2-Fluorophenol	67	(50 - 115)
2,4,6-Tribromophenol	84	(30 - 115)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: E1J020150 **Work Order #...:** ELFAX1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene-d5	74	(45 - 115)		
Phenol-d5	73	(50 - 120)		
Terphenyl-d14	84	(50 - 140)		

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1J020150
MB Lot-Sample #: E1J020000-504

Work Order #...: ELF6H1AA
Prep Date.....: 10/02/01
Prep Batch #...: 1275504
Analyst ID.....: 999998

Matrix.....: SOLID
Analysis Time..: 13:10
Instrument ID..: MSD

Analysis Date..: 10/02/01
Dilution Factor: 1

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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1J020150 **Work Order #...:** ELF6H1AA **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	98	(70 - 130)
1,2-Dichloroethane-d4	76	(60 - 140)
Toluene-d8	91	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1J020150
MB Lot-Sample #: E1J030000-276

Work Order #...: ELG1P1AA

Matrix.....: SOLID

Prep Date.....: 10/02/01
Prep Batch #...: 1276276

Analysis Time..: 12:22
Instrument ID..: G15

Analysis Date..: 10/02/01
Dilution Factor: 1

Analyst ID.....: 001464

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C6-C8	0.10 J	1.0	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	90	(60 - 130)

NOTE(S):

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1J020000-306 **Prep Batch #...:** 1275306						
Aluminum	ND	20.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AA
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AC
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AD
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AE
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELE6D1AF
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AG
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELE6D1AH
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELE6D1AJ
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	10/02/01	ELE6D1AK
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AL
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AM
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	10/02/01	ELE6D1AN
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AP
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AQ
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AR
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AT
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	10/02/01	ELE6D1AU
		Dilution Factor: 1				
		Analysis Time..: 15:59		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E1J020000-308 **Prep Batch #...:** 1275308

Mercury	ND	0.10	mg/kg	SW846 7471A	10/02/01	ELE6G1AA
		Dilution Factor: 1				
		Analysis Time..: 13:38		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1J020150 **Work Order #...:** ELE8D1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1J020000-312
Prep Date.....: 10/02/01 **Analysis Date..:** 10/02/01
Prep Batch #...: 1275312 **Analysis Time..:** 14:41
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**333**	**335**	**ug/kg**	**101**	**SW846 8082**
Aroclor 1260	**333**	**332**	**ug/kg**	**99**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	114	(60 - 140)
Tetrachloro-m-xylene	65	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1J020150 **Work Order #...:** ELFAN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1J020000-319
Prep Date.....: 10/02/01 **Analysis Date..:** 10/03/01
Prep Batch #...: 1275319 **Analysis Time..:** 09:53
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**269**	**mg/kg**	**107**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	93	(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 Semivolatiles

Client Lot #...: E1J020150 **Work Order #...:** ELFAX1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1J020000-325
Prep Date.....: 10/02/01 **Analysis Date..:** 10/03/01
Prep Batch #...: 1275325 **Analysis Time..:** 09:39
Dilution Factor: 1 **Instrument ID..:** MSI
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	**3330**	**3050**	**ug/kg**	**92**	**SW846 8270C**
4-Chloro-3-methylphenol	**5000**	**4500**	**ug/kg**	**90**	**SW846 8270C**
2-Chlorophenol	**5000**	**4080**	**ug/kg**	**82**	**SW846 8270C**
1,4-Dichlorobenzene	**3330**	**2550**	**ug/kg**	**77**	**SW846 8270C**
2,4-Dinitrotoluene	**3330**	**3750**	**ug/kg**	**112**	**SW846 8270C**
4-Nitrophenol	**5000**	**4730**	**ug/kg**	**95**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**3330**	**2900**	**ug/kg**	**87**	**SW846 8270C**
Pentachlorophenol	**5000**	**5890**	**ug/kg**	**118**	**SW846 8270C**
Phenol	**5000**	**3460**	**ug/kg**	**69**	**SW846 8270C**
Pyrene	**3330**	**3260**	**ug/kg**	**98**	**SW846 8270C**
1,2,4-Trichloro-benzene	**3330**	**3000**	**ug/kg**	**90**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	82	(40 - 130)
2-Fluorophenol	73	(50 - 115)
2,4,6-Tribromophenol	102	(30 - 115)
Nitrobenzene-d5	76	(45 - 115)
Phenol-d5	76	(50 - 120)
Terphenyl-d14	99	(50 - 140)

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 #...: E1J020150 **Work Order #...:** ELF6H1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1J020000-504
Prep Date.....: 10/02/01 **Analysis Date..:** 10/02/01
Prep Batch #...: 1275504 **Analysis Time..:** 12:40
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**41.5**	**ug/kg**	**83**	**SW846 8260B**
Benzene	**50.0**	**45.4**	**ug/kg**	**91**	**SW846 8260B**
Trichloroethene	**50.0**	**45.1**	**ug/kg**	**90**	**SW846 8260B**
Toluene	**50.0**	**43.1**	**ug/kg**	**86**	**SW846 8260B**
Chlorobenzene	**50.0**	**42.5**	**ug/kg**	**85**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(70 - 130)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	94	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E1J020150 **Work Order #...:** ELG1P1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1J030000-276
Prep Date.....: 10/02/01 **Analysis Date..:** 10/02/01
Prep Batch #...: 1276276 **Analysis Time..:** 13:00
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**5.01**	**mg/kg**	**100**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	106	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1J020000-306 **Prep Batch #...:** 1275306							
Aluminum	200	172	mg/kg	86	SW846 6010B	10/02/01	ELE6D1AV
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	200	180	mg/kg	90	SW846 6010B	10/02/01	ELE6D1AW
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	39.7	mg/kg	79	SW846 6010B	10/02/01	ELE6D1AX
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	198	mg/kg	99	SW846 6010B	10/02/01	ELE6D1A0
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	4.82	mg/kg	96	SW846 6010B	10/02/01	ELE6D1A1
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	19.7	mg/kg	99	SW846 6010B	10/02/01	ELE6D1A2
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	4.84	mg/kg	97	SW846 6010B	10/02/01	ELE6D1A3
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	44.8	mg/kg	90	SW846 6010B	10/02/01	ELE6D1A4
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	171	mg/kg	86	SW846 6010B	10/02/01	ELE6D1A5
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.60	mg/kg	92	SW846 6010B	10/02/01	ELE6D1A6
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	47.5	mg/kg	95	SW846 6010B	10/02/01	ELE6D1A7
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	23.1	mg/kg	92	SW846 6010B	10/02/01	ELE6D1A8
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	94.1	mg/kg	94	SW846 6010B	10/02/01	ELE6D1A9
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	49.5	mg/kg	99	SW846 6010B	10/02/01	ELE6D1CA
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	173	mg/kg	87	SW846 6010B	10/02/01	ELE6D1CC
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	48.4	mg/kg	97	SW846 6010B	10/02/01	ELE6D1CD
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	48.2	mg/kg	96	SW846 6010B	10/02/01	ELE6D1CE
			Dilution Factor: 1				
			Analysis Time..: 16:05		Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E1J020000-308 **Prep Batch #...:** 1275308

Mercury	0.833	0.845	mg/kg	101	SW846 7471A	10/02/01	ELE6G1AC
			Dilution Factor: 1				
			Analysis Time..: 13:40		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 #...: E1J020150 **Work Order #...:** ELE8D1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1J020000-312
Prep Date.....: 10/02/01 **Analysis Date..:** 10/02/01
Prep Batch #...: 1275312 **Analysis Time..:** 14:41
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**101**	**(65 - 130)**	**SW846 8082**
Aroclor 1260	**99**	**(70 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	114	(60 - 140)
Tetrachloro-m-xylene	65	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1J020150 **Work Order #...:** ELFAN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1J020000-319
Prep Date.....: 10/02/01 **Analysis Date..:** 10/03/01
Prep Batch #...: 1275319 **Analysis Time..:** 09:53
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**107**	**(60 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	93	(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 Semivolatiles

Client Lot #...: E1J020150 **Work Order #...:** ELFAX1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1J020000-325
Prep Date.....: 10/02/01 **Analysis Date..:** 10/03/01
Prep Batch #...: 1275325 **Analysis Time..:** 09:39
Dilution Factor: 1 **Instrument ID..:** MSI
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**92**	**(50 - 125)**	**SW846 8270C**
4-Chloro-3-methylphenol	**90**	**(50 - 110)**	**SW846 8270C**
2-Chlorophenol	**82**	**(50 - 120)**	**SW846 8270C**
1,4-Dichlorobenzene	**77**	**(40 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**112**	**(40 - 120)**	**SW846 8270C**
4-Nitrophenol	**95**	**(10 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**87**	**(40 - 120)**	**SW846 8270C**
Pentachlorophenol	**118**	**(20 - 130)**	**SW846 8270C**
Phenol	**69**	**(40 - 110)**	**SW846 8270C**
Pyrene	**98**	**(50 - 140)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**90**	**(50 - 115)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	82	(40 - 130)
2-Fluorophenol	73	(50 - 115)
2,4,6-Tribromophenol	102	(30 - 115)
Nitrobenzene-d5	76	(45 - 115)
Phenol-d5	76	(50 - 120)
Terphenyl-d14	99	(50 - 140)

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 #...: E1J020150 **Work Order #...:** ELF6H1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1J020000-504
Prep Date.....: 10/02/01 **Analysis Date..:** 10/02/01
Prep Batch #...: 1275504 **Analysis Time..:** 12:40
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**83**	**(60 - 150)**	**SW846 8260B**
Benzene	**91**	**(70 - 140)**	**SW846 8260B**
Trichloroethene	**90**	**(70 - 130)**	**SW846 8260B**
Toluene	**86**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**85**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(70 - 130)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	94	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E1J020150 **Work Order #...:** ELG1P1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1J030000-276
Prep Date.....: 10/02/01 **Analysis Date..:** 10/02/01
Prep Batch #...: 1276276 **Analysis Time..:** 13:00
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**100**	**(80 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	106	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1J020000-306 **Prep Batch #...:** 1275306					
Aluminum	86	(70 - 115)	SW846 6010B	10/02/01	ELE6D1AV
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Arsenic	90	(75 - 115)	SW846 6010B	10/02/01	ELE6D1AW
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Antimony	79	(75 - 115)	SW846 6010B	10/02/01	ELE6D1AX
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Barium	99	(80 - 120)	SW846 6010B	10/02/01	ELE6D1A0
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Cadmium	96	(80 - 120)	SW846 6010B	10/02/01	ELE6D1A1
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Chromium	99	(85 - 120)	SW846 6010B	10/02/01	ELE6D1A2
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Beryllium	97	(80 - 120)	SW846 6010B	10/02/01	ELE6D1A3
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Lead	90	(80 - 120)	SW846 6010B	10/02/01	ELE6D1A4
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Selenium	86	(70 - 115)	SW846 6010B	10/02/01	ELE6D1A5
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Silver	92	(80 - 120)	SW846 6010B	10/02/01	ELE6D1A6
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	95	(80 - 120)	SW846 6010B	10/02/01	ELE6D1A7
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Copper	92	(80 - 120)	SW846 6010B	10/02/01	ELE6D1A8
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Molybdenum	94	(80 - 120)	SW846 6010B	10/02/01	ELE6D1A9
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Nickel	99	(80 - 120)	SW846 6010B	10/02/01	ELE6D1CA
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Thallium	87	(75 - 125)	SW846 6010B	10/02/01	ELE6D1CC
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Vanadium	97	(80 - 120)	SW846 6010B	10/02/01	ELE6D1CD
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01
Zinc	96	(80 - 120)	SW846 6010B	10/02/01	ELE6D1CE
		Dilution Factor: 1			
		Analysis Time..: 16:05	Analyst ID.....: 021088		Instrument ID..: M01

LCS Lot-Sample#: E1J020000-308 **Prep Batch #...:** 1275308

Mercury	101	(85 - 115)	SW846 7471A	10/02/01	ELE6G1AC
		Dilution Factor: 1			
		Analysis Time..: 13:40	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 #...: E1J020150 **Matrix.....:** SOLID
Date Sampled...: 09/28/01 10:00 **Date Received..:** 09/28/01 17:45

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J020150-001 **Prep Batch #...:** 1275306									
Aluminum									
	24100	200	23300 NC	mg/kg			SW846 6010B	10/02/01	ELE2N1A4
	24100	200	25300 NC	mg/kg			SW846 6010B	10/02/01	ELE2N1A5
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						
Arsenic									
	4.6	200	178	mg/kg	87		SW846 6010B	10/02/01	ELE2N1A6
	4.6	200	179	mg/kg	87	0.56	SW846 6010B	10/02/01	ELE2N1A7
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						
Antimony									
	0.77	50.0	8.69 N	mg/kg	16		SW846 6010B	10/02/01	ELE2N1A8
	0.77	50.0	7.98 N	mg/kg	14	8.5	SW846 6010B	10/02/01	ELE2N1A9
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						
Barium									
	175	200	347	mg/kg	86		SW846 6010B	10/02/01	ELE2N1CA
	175	200	362	mg/kg	93	4.2	SW846 6010B	10/02/01	ELE2N1CC
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						
Cadmium									
	0.24	5.00	4.46	mg/kg	85		SW846 6010B	10/02/01	ELE2N1CD
	0.24	5.00	4.54	mg/kg	86	1.7	SW846 6010B	10/02/01	ELE2N1CE
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						
Chromium									
	30.3	20.0	47.0 N	mg/kg	84		SW846 6010B	10/02/01	ELE2N1CF
	30.3	20.0	49.4	mg/kg	96	5.0	SW846 6010B	10/02/01	ELE2N1CG
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID
Date Sampled...: 09/28/01 10:00 **Date Received..:** 09/28/01 17:45

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.67	5.00	5.19	mg/kg	90		SW846 6010B	10/02/01	ELE2N1CH
	0.67	5.00	5.25	mg/kg	92	1.2	SW846 6010B	10/02/01	ELE2N1CJ
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						
Lead									
	97.1	50.0	130 N	mg/kg	67		SW846 6010B	10/02/01	ELE2N1CK
	97.1	50.0	212 N,*	mg/kg	229	47	SW846 6010B	10/02/01	ELE2N1CL
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						
Selenium									
	ND	200	167	mg/kg	84		SW846 6010B	10/02/01	ELE2N1CM
	ND	200	167	mg/kg	83	0.31	SW846 6010B	10/02/01	ELE2N1CN
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						
Silver									
	ND	5.00	4.27	mg/kg	85		SW846 6010B	10/02/01	ELE2N1CP
	ND	5.00	4.26	mg/kg	85	0.28	SW846 6010B	10/02/01	ELE2N1CQ
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						
Cobalt									
	12.9	50.0	56.6	mg/kg	87		SW846 6010B	10/02/01	ELE2N1CR
	12.9	50.0	58.1	mg/kg	90	2.5	SW846 6010B	10/02/01	ELE2N1CT
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						
Copper									
	34.4	25.0	55.6	mg/kg	85		SW846 6010B	10/02/01	ELE2N1CU
	34.4	25.0	59.0	mg/kg	98	6.0	SW846 6010B	10/02/01	ELE2N1CV
			Dilution Factor: 1						
			Analysis Time..: 16:31		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1275136						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID
Date Sampled...: 09/28/01 10:00 **Date Received..:** 09/28/01 17:45

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	0.83	100	84.7	mg/kg	84		SW846 6010B	10/02/01	ELE2N1CW
	0.83	100	85.5	mg/kg	85	0.85	SW846 6010B	10/02/01	ELE2N1CX
				Dilution Factor: 1					
				Analysis Time..: 16:31		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275136					
Nickel									
	31.9	50.0	74.4	mg/kg	85		SW846 6010B	10/02/01	ELE2N1C0
	31.9	50.0	76.9	mg/kg	90	3.2	SW846 6010B	10/02/01	ELE2N1C1
				Dilution Factor: 1					
				Analysis Time..: 16:31		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275136					
Thallium									
	ND	200	175	mg/kg	87		SW846 6010B	10/02/01	ELE2N1C2
	ND	200	177	mg/kg	88	1.0	SW846 6010B	10/02/01	ELE2N1C3
				Dilution Factor: 1					
				Analysis Time..: 16:31		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275136					
Vanadium									
	72.6	50.0	114	mg/kg	82		SW846 6010B	10/02/01	ELE2N1C4
	72.6	50.0	117	mg/kg	89	3.0	SW846 6010B	10/02/01	ELE2N1C5
				Dilution Factor: 1					
				Analysis Time..: 16:31		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275136					
Zinc									
	87.7	50.0	127 N	mg/kg	79		SW846 6010B	10/02/01	ELE2N1C6
	87.7	50.0	133	mg/kg	92	4.8	SW846 6010B	10/02/01	ELE2N1C7
				Dilution Factor: 1					
				Analysis Time..: 16:31		Instrument ID..: M01		Analyst ID.....: 021088	
				MS Run #.....: 1275136					

MS Lot-Sample #: E1J020150-001 **Prep Batch #...:** 1275308

Mercury									
	0.060	0.167	0.228	mg/kg	101		SW846 7471A	10/02/01	ELE2N1C8
	0.060	0.167	0.243	mg/kg	110	6.4	SW846 7471A	10/02/01	ELE2N1C9
				Dilution Factor: 1					
				Analysis Time..: 13:44		Instrument ID..: M04		Analyst ID.....: 000023	
				MS Run #.....: 1275137					

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID
Date Sampled...: 09/28/01 10:00 **Date Received..:** 09/28/01 17:45

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E1J020150	**Work Order #...:**	ELE2N1DA-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1J020150-001		ELE2N1DC-MSD		
Date Sampled...:	09/28/01 10:00	**Date Received..:**	09/28/01 17:45	**MS Run #.....:**	1275151
Prep Date.....:	10/02/01	**Analysis Date..:**	10/02/01		
Prep Batch #...:	1275312	**Analysis Time..:**	17:20		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**ND**	**333**	**309**	**ug/kg**	**93**		**SW846 8082**
	ND	**333**	**322**	**ug/kg**	**96**	**4.1**	**SW846 8082**
Aroclor 1260	**64**	**333**	**366**	**ug/kg**	**91**		**SW846 8082**
	64	**333**	**371**	**ug/kg**	**92**	**1.4**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	134	(60 - 140)
	134	(60 - 140)
Tetrachloro-m-xylene	94	(60 - 140)
	97	(60 - 140)

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 #...:	E1J020150	**Work Order #...:**	ELE2N1DD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1J020150-001		ELE2N1DE-MSD		
Date Sampled...:	09/28/01 10:00	**Date Received..:**	09/28/01 17:45	**MS Run #.....:**	1275157
Prep Date.....:	10/02/01	**Analysis Date..:**	10/03/01		
Prep Batch #...:	1275319	**Analysis Time..:**	11:10		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	**54**	**250**	**295**	**mg/kg**	**96**		**SW846 8015B**
	54	**250**	**270**	**mg/kg**	**86**	**8.8**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	99	(60 - 130)
	97	(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 Semivolatiles

Client Lot #...:	E1J020150	**Work Order #...:**	ELE2N1DF-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1J020150-001		ELE2N1DG-MSD		
Date Sampled...:	09/28/01 10:00	**Date Received..:**	09/28/01 17:45	**MS Run #.....:**	1275162
Prep Date.....:	10/02/01	**Analysis Date..:**	10/03/01		
Prep Batch #...:	1275325	**Analysis Time..:**	12:21		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSI

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	ND	3330	2570	ug/kg	77		SW846 8270C
	ND	3330	2430	ug/kg	73	5.6	SW846 8270C
4-Chloro-3-methylphenol	ND	5000	3900	ug/kg	78		SW846 8270C
	ND	5000	3920	ug/kg	78	0.51	SW846 8270C
2-Chlorophenol	ND	5000	3520	ug/kg	70		SW846 8270C
	ND	5000	3440	ug/kg	69	2.3	SW846 8270C
1,4-Dichlorobenzene	ND	3330	1870	ug/kg	56		SW846 8270C
	ND	3330	1760	ug/kg	53	5.8	SW846 8270C
2,4-Dinitrotoluene	ND	3330	3290	ug/kg	99		SW846 8270C
	ND	3330	3190	ug/kg	96	3.3	SW846 8270C
4-Nitrophenol	ND	5000	4250	ug/kg	85		SW846 8270C
	ND	5000	3770	ug/kg	75	12	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	3330	2490	ug/kg	75		SW846 8270C
	ND	3330	2480	ug/kg	74	0.28	SW846 8270C
Pentachlorophenol	ND	5000	4350	ug/kg	87		SW846 8270C
	ND	5000	3900	ug/kg	78	11	SW846 8270C
Phenol	ND	5000	3060	ug/kg	61		SW846 8270C
	ND	5000	3050	ug/kg	61	0.09	SW846 8270C
Pyrene	1500	3330	3660	ug/kg	66		SW846 8270C
	1500	3330	3250	ug/kg	54	12	SW846 8270C
1,2,4-Trichloro-benzene	ND	3330	2380	ug/kg	71		SW846 8270C
	ND	3330	2330	ug/kg	70	1.9	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	69	(40 - 130)
	73	(40 - 130)
2-Fluorophenol	63	(50 - 115)
	67	(50 - 115)
2,4,6-Tribromophenol	78	(30 - 115)
	85	(30 - 115)
Nitrobenzene-d5	70	(45 - 115)
	78	(45 - 115)
Phenol-d5	69	(50 - 120)
	73	(50 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: E1J020150 **Work Order #...:** ELE2N1DF-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1J020150-001 ELE2N1DG-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	90	(50 - 140)
	90	(50 - 140)

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 #...:	E1J020150	**Work Order #...:**	ELE2N1DH-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1J020150-001		ELE2N1DJ-MSD		
Date Sampled...:	09/28/01 10:00	**Date Received..:**	09/28/01 17:45	**MS Run #.....:**	1275263
Prep Date.....:	10/02/01	**Analysis Date..:**	10/02/01		
Prep Batch #...:	1275504	**Analysis Time..:**	14:23		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**42.5**	**ug/kg**	**85**		**SW846 8260B**
	ND	**50.0**	**41.5**	**ug/kg**	**83**	**2.4**	**SW846 8260B**
Benzene	**ND**	**50.0**	**43.2**	**ug/kg**	**86**		**SW846 8260B**
	ND	**50.0**	**41.9**	**ug/kg**	**84**	**2.9**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**46.1**	**ug/kg**	**92**		**SW846 8260B**
	ND	**50.0**	**45.6**	**ug/kg**	**91**	**1.2**	**SW846 8260B**
Toluene	**ND**	**50.0**	**41.2**	**ug/kg**	**82**		**SW846 8260B**
	ND	**50.0**	**40.0**	**ug/kg**	**80**	**2.8**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**39.0**	**ug/kg**	**78**		**SW846 8260B**
	ND	**50.0**	**38.0**	**ug/kg**	**76**	**2.6**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(70 - 130)
	94	(70 - 130)
1,2-Dichloroethane-d4	82	(60 - 140)
	81	(60 - 140)
Toluene-d8	92	(70 - 130)
	94	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...:	E1J020150	**Work Order #...:**	ELE2N1DK-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1J020150-001		ELE2N1DL-MSD		
Date Sampled...:	09/28/01 10:00	**Date Received..:**	09/28/01 17:45	**MS Run #.....:**	1276107
Prep Date.....:	10/02/01	**Analysis Date..:**	10/02/01		
Prep Batch #...:	1276276	**Analysis Time..:**	13:54		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**0.17**	**5.00**	**5.80**	**mg/kg**	**113**		**SW846 8015B**
	0.17	**5.00**	**6.16**	**mg/kg**	**120**	**6.1**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	125	(60 - 130)
	125	(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

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID
Date Sampled...: 09/28/01 10:00 **Date Received..:** 09/28/01 17:45

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J020150-001 **Prep Batch #...:** 1275306							
Aluminum	NC	(70 - 115)			SW846 6010B	10/02/01	ELE2N1A4
	NC	(70 - 115)		(0-25)	SW846 6010B	10/02/01	ELE2N1A5
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Arsenic	87	(75 - 115)			SW846 6010B	10/02/01	ELE2N1A6
	87	(75 - 115)	0.56	(0-25)	SW846 6010B	10/02/01	ELE2N1A7
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Antimony	16 N	(75 - 115)			SW846 6010B	10/02/01	ELE2N1A8
	14 N	(75 - 115)	8.5	(0-25)	SW846 6010B	10/02/01	ELE2N1A9
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Barium	86	(80 - 120)			SW846 6010B	10/02/01	ELE2N1CA
	93	(80 - 120)	4.2	(0-25)	SW846 6010B	10/02/01	ELE2N1CC
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Cadmium	85	(80 - 120)			SW846 6010B	10/02/01	ELE2N1CD
	86	(80 - 120)	1.7	(0-25)	SW846 6010B	10/02/01	ELE2N1CE
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Chromium	84 N	(85 - 120)			SW846 6010B	10/02/01	ELE2N1CF
	96	(85 - 120)	5.0	(0-25)	SW846 6010B	10/02/01	ELE2N1CG
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Beryllium	90	(80 - 120)			SW846 6010B	10/02/01	ELE2N1CH
	92	(80 - 120)	1.2	(0-25)	SW846 6010B	10/02/01	ELE2N1CJ
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID
Date Sampled...: 09/28/01 10:00 **Date Received..:** 09/28/01 17:45

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	67 N	(80 - 120)			SW846 6010B	10/02/01	ELE2N1CK
	229 N,*	(80 - 120)	47	(0-25)	SW846 6010B	10/02/01	ELE2N1CL
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Selenium	84	(70 - 115)			SW846 6010B	10/02/01	ELE2N1CM
	83	(70 - 115)	0.31	(0-25)	SW846 6010B	10/02/01	ELE2N1CN
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Silver	85	(80 - 120)			SW846 6010B	10/02/01	ELE2N1CP
	85	(80 - 120)	0.28	(0-25)	SW846 6010B	10/02/01	ELE2N1CQ
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Cobalt	87	(80 - 120)			SW846 6010B	10/02/01	ELE2N1CR
	90	(80 - 120)	2.5	(0-25)	SW846 6010B	10/02/01	ELE2N1CT
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Copper	85	(80 - 120)			SW846 6010B	10/02/01	ELE2N1CU
	98	(80 - 120)	6.0	(0-25)	SW846 6010B	10/02/01	ELE2N1CV
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Molybdenum	84	(80 - 120)			SW846 6010B	10/02/01	ELE2N1CW
	85	(80 - 120)	0.85	(0-25)	SW846 6010B	10/02/01	ELE2N1CX
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Nickel	85	(80 - 120)			SW846 6010B	10/02/01	ELE2N1C0
	90	(80 - 120)	3.2	(0-25)	SW846 6010B	10/02/01	ELE2N1C1
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1J020150 **Matrix.....:** SOLID
Date Sampled...: 09/28/01 10:00 **Date Received..:** 09/28/01 17:45

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	87	(75 - 125)			SW846 6010B	10/02/01	ELE2N1C2
	88	(75 - 125)	1.0	(0-25)	SW846 6010B	10/02/01	ELE2N1C3
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Vanadium	82	(80 - 120)			SW846 6010B	10/02/01	ELE2N1C4
	89	(80 - 120)	3.0	(0-25)	SW846 6010B	10/02/01	ELE2N1C5
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					
Zinc	79 N	(80 - 120)			SW846 6010B	10/02/01	ELE2N1C6
	92	(80 - 120)	4.8	(0-25)	SW846 6010B	10/02/01	ELE2N1C7
		Dilution Factor: 1					
		Analysis Time..: 16:31			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1275136					

MS Lot-Sample #: E1J020150-001 **Prep Batch #...:** 1275308

Mercury	101	(80 - 120)			SW846 7471A	10/02/01	ELE2N1C8
	110	(80 - 120)	6.4	(0-20)	SW846 7471A	10/02/01	ELE2N1C9
		Dilution Factor: 1					
		Analysis Time..: 13:44			Instrument ID..: M04	Analyst ID.....: 000023	
		MS Run #.....: 1275137					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1J020150 **Work Order #...:** ELE2N1DA-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1J020150-001 ELE2N1DC-MSD
Date Sampled...: 09/28/01 10:00 **Date Received..:** 09/28/01 17:45 **MS Run #.....:** 1275151
Prep Date.....: 10/02/01 **Analysis Date..:** 10/02/01
Prep Batch #...: 1275312 **Analysis Time..:** 17:20
Dilution Factor: 1 **Analyst ID.....:** 018568 **Instrument ID..:** G8B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**93**	**(65 - 130)**			**SW846 8082**
	96	**(65 - 130)**	**4.1**	**(0-30)**	**SW846 8082**
Aroclor 1260	**91**	**(70 - 130)**			**SW846 8082**
	92	**(70 - 130)**	**1.4**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	134	(60 - 140)
	134	(60 - 140)
Tetrachloro-m-xylene	94	(60 - 140)
	97	(60 - 140)

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 #...:	E1J020150	**Work Order #...:**	ELE2N1DD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1J020150-001		ELE2N1DE-MSD		
Date Sampled...:	09/28/01 10:00	**Date Received..:**	09/28/01 17:45	**MS Run #.....:**	1275157
Prep Date.....:	10/02/01	**Analysis Date..:**	10/03/01		
Prep Batch #...:	1275319	**Analysis Time..:**	11:10		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**96**	**(60 - 130)**			**SW846 8015B**
	86	**(60 - 130)**	**8.8**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	99	(60 - 130)
	97	(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 Semivolatiles

Client Lot #...: E1J020150 Work Order #...: ELE2N1DF-MS Matrix.....: SOLID
MS Lot-Sample #: E1J020150-001 ELE2N1DG-MSD
Date Sampled...: 09/28/01 10:00 Date Received..: 09/28/01 17:45 MS Run #.....: 1275162
Prep Date.....: 10/02/01 Analysis Date..: 10/03/01
Prep Batch #...: 1275325 Analysis Time..: 12:21
Dilution Factor: 1 Analyst ID.....: 004648 Instrument ID..: MSI

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	77	(50 - 125)			SW846 8270C
	73	(50 - 125)	5.6	(0-35)	SW846 8270C
4-Chloro-3-methylphenol	78	(50 - 110)			SW846 8270C
	78	(50 - 110)	0.51	(0-35)	SW846 8270C
2-Chlorophenol	70	(50 - 120)			SW846 8270C
	69	(50 - 120)	2.3	(0-35)	SW846 8270C
1,4-Dichlorobenzene	56	(40 - 115)			SW846 8270C
	53	(40 - 115)	5.8	(0-35)	SW846 8270C
2,4-Dinitrotoluene	99	(40 - 120)			SW846 8270C
	96	(40 - 120)	3.3	(0-35)	SW846 8270C
4-Nitrophenol	85	(10 - 120)			SW846 8270C
	75	(10 - 120)	12	(0-35)	SW846 8270C
N-Nitrosodi-n-propyl-amine	75	(40 - 120)			SW846 8270C
	74	(40 - 120)	0.28	(0-35)	SW846 8270C
Pentachlorophenol	87	(20 - 130)			SW846 8270C
	78	(20 - 130)	11	(0-35)	SW846 8270C
Phenol	61	(40 - 110)			SW846 8270C
	61	(40 - 110)	0.09	(0-35)	SW846 8270C
Pyrene	66	(50 - 140)			SW846 8270C
	54	(50 - 140)	12	(0-35)	SW846 8270C
1,2,4-Trichloro-benzene	71	(50 - 115)			SW846 8270C
	70	(50 - 115)	1.9	(0-35)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	69	(40 - 130)
	73	(40 - 130)
2-Fluorophenol	63	(50 - 115)
	67	(50 - 115)
2,4,6-Tribromophenol	78	(30 - 115)
	85	(30 - 115)
Nitrobenzene-d5	70	(45 - 115)
	78	(45 - 115)
Phenol-d5	69	(50 - 120)
	73	(50 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: E1J020150 **Work Order #...:** ELE2N1DF-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1J020150-001 ELE2N1DG-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	90	(50 - 140)
	90	(50 - 140)

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 #...:	E1J020150	**Work Order #...:**	ELE2N1DH-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1J020150-001		ELE2N1DJ-MSD		
Date Sampled...:	09/28/01 10:00	**Date Received..:**	09/28/01 17:45	**MS Run #.....:**	1275263
Prep Date.....:	10/02/01	**Analysis Date..:**	10/02/01		
Prep Batch #...:	1275504	**Analysis Time..:**	14:23		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**85**	**(60 - 150)**			**SW846 8260B**
	83	**(60 - 150)**	**2.4**	**(0-30)**	**SW846 8260B**
Benzene	**86**	**(70 - 140)**			**SW846 8260B**
	84	**(70 - 140)**	**2.9**	**(0-30)**	**SW846 8260B**
Trichloroethene	**92**	**(70 - 130)**			**SW846 8260B**
	91	**(70 - 130)**	**1.2**	**(0-30)**	**SW846 8260B**
Toluene	**82**	**(70 - 130)**			**SW846 8260B**
	80	**(70 - 130)**	**2.8**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**78**	**(70 - 130)**			**SW846 8260B**
	76	**(70 - 130)**	**2.6**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(70 - 130)
	94	(70 - 130)
1,2-Dichloroethane-d4	82	(60 - 140)
	81	(60 - 140)
Toluene-d8	92	(70 - 130)
	94	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E1J020150	**Work Order #...:**	ELE2N1DK-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1J020150-001		ELE2N1DL-MSD		
Date Sampled...:	09/28/01 10:00	**Date Received..:**	09/28/01 17:45	**MS Run #.....:**	1276107
Prep Date.....:	10/02/01	**Analysis Date..:**	10/02/01		
Prep Batch #...:	1276276	**Analysis Time..:**	13:54		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**113**	**(80 - 140)**			**SW846 8015B**
	120	**(80 - 140)**	**6.1**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	125	(60 - 130)
	125	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

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LABORATORY REPORT

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

Attention: Diane Suzuki
Project: E1J020150

Sampled: 09/28/01
Received: 10/02/01
Reported: 10/05/01

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el Mar Analytical, Colton
ifton J. Kiser
oject Manager

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Client Project ID: E1J020150

Report Number: CKJ0026

Sampled:09/28/01
Received:10/02/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

nalyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
ample ID: CKJ0026-01 (BLDG_1_B_15_092801_16' - Soil)								
cenaphthene	EPA 8310	C1J0308	5000	ND	100	10/3/01	10/4/01	
enaphthylene	EPA 8310	C1J0308	20000	ND	100	10/3/01	10/4/01	
thracene	EPA 8310	C1J0308	200	**240**	100	10/3/01	10/4/01	
enzo(a)anthracene	EPA 8310	C1J0308	200	**1600**	100	10/3/01	10/4/01	
enzo(a)pyrene	EPA 8310	C1J0308	200	**2200**	100	10/3/01	10/4/01	
nzo(b)fluoranthene	EPA 8310	C1J0308	500	**2100**	100	10/3/01	10/4/01	
nzo(g,h,i)perylene	EPA 8310	C1J0308	500	**1400**	100	10/3/01	10/4/01	
enzo(k)fluoranthene	EPA 8310	C1J0308	200	**960**	100	10/3/01	10/4/01	
rysene	EPA 8310	C1J0308	500	**1600**	100	10/3/01	10/4/01	
enzo(a,h)anthracene	EPA 8310	C1J0308	500	ND	100	10/3/01	10/4/01	
luoranthene	EPA 8310	C1J0308	500	ND	100	10/3/01	10/4/01	
orene	EPA 8310	C1J0308	500	ND	100	10/3/01	10/4/01	
leno(1,2,3-cd)pyrene	EPA 8310	C1J0308	500	**1300**	100	10/3/01	10/4/01	
aphthalene	EPA 8310	C1J0308	4000	ND	100	10/3/01	10/4/01	
henanthrene	EPA 8310	C1J0308	500	**960**	100	10/3/01	10/4/01	
rene	EPA 8310	C1J0308	500	**2400**	100	10/3/01	10/4/01	
urrogate: 2-Methylanthracene (35-115%)				*621 %*				*Z3*

l Mar Analytical, Colton
lifton J. Kiser
roject Manager

000065

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Del Mar Analytical

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

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

Client Project ID: E1J020150

Report Number: CKJ0026

Sampled:09/28/01
Received:10/02/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

nalyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
atch: C1J0308 Extracted: 10/03/01										
ank Analyzed: 10/04/01 (C1J0308-BLK1)										
enaphthene	ND	50	ug/kg							
enaphthylene	ND	200	ug/kg							
thracene	ND	2.0	ug/kg							
nzo(a)anthracene	ND	2.0	ug/kg							
nzo(a)pyrene	ND	2.0	ug/kg							
nzo(b)fluoranthene	ND	5.0	ug/kg							
nzo(g,h,i)perylene	ND	5.0	ug/kg							
nzo(k)fluoranthene	ND	2.0	ug/kg							
rysene	ND	5.0	ug/kg							
benzo(a,h)anthracene	ND	5.0	ug/kg							
oranthene	ND	5.0	ug/kg							
orene	ND	5.0	ug/kg							
leno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
phthalene	ND	40	ug/kg							
enanthrene	ND	5.0	ug/kg							
rene	ND	5.0	ug/kg							
rrogate: 2-Methylanthracene	*4.99*		*ug/kg*	*8.00*		*62.4*	*35-115*			
CS Analyzed: 10/04/01 (C1J0308-BS1)										
enaphthene	120	50	ug/kg	160		75.0	45-115			
enaphthylene	314	200	ug/kg	320		98.1	50-115			
thracene	11.1	2.0	ug/kg	16.0		69.4	55-115			
nzo(a)anthracene	13.9	2.0	ug/kg	16.0		86.9	65-115			
nzo(a)pyrene	9.66	2.0	ug/kg	16.0		60.4	55-115			
nzo(b)fluoranthene	27.1	5.0	ug/kg	32.0		84.7	65-115			
nzo(g,h,i)perylene	25.2	5.0	ug/kg	32.0		78.8	60-115			
nzo(k)fluoranthene	13.9	2.0	ug/kg	16.0		86.9	65-115			
rysene	13.8	5.0	ug/kg	16.0		86.2	65-115			
benzo(a,h)anthracene	26.8	5.0	ug/kg	32.0		83.8	60-115			
oranthene	27.6	5.0	ug/kg	32.0		86.2	65-115			
orene	25.5	5.0	ug/kg	32.0		79.7	55-115			
leno(1,2,3-cd)pyrene	12.6	5.0	ug/kg	16.0		78.8	55-115			
phthalene	148	40	ug/kg	160		92.5	45-115			
enanthrene	13.3	5.0	ug/kg	16.0		83.1	55-120			
rene	13.4	5.0	ug/kg	16.0		83.8	55-115			

l Mar Analytical, Colton
ifton J. Kiser
oject Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

TL Los Angeles
721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Client Project ID: E1J020150

Report Number: CKJ0026

Sampled:09/28/01
Received:10/02/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1J0308 Extracted: 10/03/01										
LCS Analyzed: 10/04/01 (C1J0308-BS1)										
Surrogate: 2-Methylanthracene	*5.46*		*ug/kg*	*8.00*		*68.2*	*35-115*			

Del Mar Analytical, Colton
Milton J. Kiser
Project Manager

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

Client Project ID: E1J020150

Report Number: CKJ0026

Sampled:09/28/01
Received:10/02/01

DATA QUALIFIERS AND DEFINITIONS

Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

el Mar Analytical, Colton
ifton J. Kiser
oject Manager

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[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client	Project Manager	Date	Chain of Custody Number
STL LOS ANGELES	DIANE SUZUKI	10-2-01	049508
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
1721 S. GRAND AVE	(714) 258-8610 X 309	EIJ020150	

City	State	Zip Code	Site Contact	Lab Contact
SANTA ANA	CA	92705		PAT ABE

Project Name and Location (State)	Carrier/Waybill Number
BRC C6	

Contract/Purchase Order/Quote No.

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8310 PAH	Special Instructions/ Conditions of Receipt
BLDG-1-B-15-092801-16'	9/28/01	1200				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_____

QC Requirements (Specify): 2°

	Date	Time		Date	Time
1. Relinquished By	10-2-01	1005	1. Received By	10-2-01	1005
2. Relinquished By	10-2-01	1140	2. Received By Laura Morgan	10-2-01	11:40
3. Relinquished By Laura Morgan	10/2/01		3. Received By	10-02-01	1630

Comments

Brenda Alvarado DMAC 10-2-01 1810

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

000069

BOE-C6-0180934

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

October 30, 2001

STL LOT NUMBER: E1J240297
NELAP Certification Number: 01118CA
PO/CONTRACT: 05220-SEV001-00-G72

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

Dear Mr. Pehlivan,

This report contains the analytical results for the four samples received under chain of custody by STL Los Angeles on October 24, 2001. 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. The PAHs by 8310 analysis was performed by Del Mar Analytical. See attached report for any related anomaly.

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

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

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

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

BOE-C6-0180935

Chain of Custody Record

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

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: S. ZACHARY	Date: 10/23/01	Chain of Custody Number: 049987
Address: 9040 FRIARS ROAD STE 220	Telephone Number (Area Code)/Fax Number: 619 280 9210	Lab Number: EIA230204	Page 1 of 1
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact: R. FARSO	Lab Contact: P. SUZUKI	
Project Name and Location (State): BOGNO C-6 FACILITY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): LEAD; ARSENIC; EPA 8260 + TPH 5 vials; EPA 8310; EPA 8015M; EPA 8080 PCB

Special Instructions/ Conditions of Receipt: 24 Hour RT

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	LEAD	ARSENIC	EPA 8260 + TPH 5 vials	EPA 8310	EPA 8015M	EPA 8080 PCB
SP-24-102301-1	10/23/01	0900				X							X	X	X	X	X	X
SP-24-102301-2	10/23/01	0905				X							X	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 ____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	10/23/01	1125	1. Received By	10-23-01	1125
2. Relinquished By	10/23/01	1230	2. Received By	10/23/01	12-25
3. Relinquished By			3. Received By		

Comments:

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

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BOE-C6-0180936

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 10/23/01

Quantims Lot #: EIJ 230206
Quote #: 42295
Client Name: HALEY ALDRICH
Project: BOEING C-6 - FACILITY
Received by: MLT
Date/Time Received: 10/23/01 12:25
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☐In-House Courier ☐Rey B. ☐UPS ☐DES ☒Other MIKE

	Initial / Date
Custody Seal Status: ☐Intact ☐Broken ☑None	MLT 10/23/01
Custody Seal #(s): ☐No Seal #	
Sample Container(s): ☐STL-LA ☑Client ☐N/A	
Temperature(s) (Cooler/blank) in °C: 9°C Correction factor -3°C (Corrected Temp.) 6°C	
Thermometer Used : ID: A ☐IR (Infra-red) ☐Digital (Probe)	
Samples: ☑Intact ☐Broken ☐Other	
Anomalies: ☑No ☐Yes (See Clouseau)	
Labeled by	
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 Del Mar

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

Fraction	1->2										PH
VOAh 1*	—										N/A
SLEEVE	1										—

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

LOGGED BY/DATE: 10/23/01 REVIEWED BY/DATE: 10/24/01

PRC Ver. 4 081401 KAF

000003

BOE-C6-0180937

SEVERN
TRENT
SERVICES

Analytical Report

000004

EXECUTIVE SUMMARY - Detection Highlights

E1J230204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP_24_102301_1 10/23/01 09:00 001				
C20-C23	5.6 J	10	mg/kg	SW846 8015B
C24-C27	12	10	mg/kg	SW846 8015B
C28-C31	11	10	mg/kg	SW846 8015B
C32-C35	5.9 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	39	10	mg/kg	SW846 8015B
Aroclor 1254	23 J	33	ug/kg	SW846 8082
Aroclor 1260	93	33	ug/kg	SW846 8082
Arsenic	4.6	1.0	mg/kg	SW846 6010B
Lead	10.2	0.50	mg/kg	SW846 6010B
SP_24_102301_2 10/23/01 09:05 002				
C20-C23	7.3 J	10	mg/kg	SW846 8015B
C24-C27	17	10	mg/kg	SW846 8015B
C28-C31	13	10	mg/kg	SW846 8015B
C32-C35	7.6 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	51	10	mg/kg	SW846 8015B
Aroclor 1254	21 J	33	ug/kg	SW846 8082
Aroclor 1260	36	33	ug/kg	SW846 8082
Arsenic	7.0	1.0	mg/kg	SW846 6010B
Lead	12.1	0.50	mg/kg	SW846 6010B

METHODS SUMMARY

E1J230204

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
PCBs by SW-846 8082	SW846 8082	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

E1J230204

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EMLLV	001	SP_24_102301_1	10/23/01	09:00
EMLMJ	002	SP_24_102301_2	10/23/01	09:05

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.

BOE-C6-0180941

HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_1

GC Semivolatiles

Lot-Sample #...:	E1J230204-001	Work Order #...:	EMLLV1AD	Matrix.....:	SOLID
Date Sampled...:	10/23/01 09:00	Date Received..:	10/23/01 12:25	MS Run #.....:	1296227
Prep Date.....:	10/23/01	Analysis Date..:	10/23/01		
Prep Batch #...:	1296453	Analysis Time..:	21:54		
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	5.6 J	10	mg/kg	5.0
C24-C27	12	10	mg/kg	5.0
C28-C31	11	10	mg/kg	5.0
C32-C35	5.9 J	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	39	10	mg/kg	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	67	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_1

GC Volatiles

Lot-Sample #...:	E1J230204-001	Work Order #...:	EMLLV1AE	Matrix.....:	SOLID
Date Sampled...:	10/23/01 09:00	Date Received..:	10/23/01 12:25	MS Run #.....:	1296215
Prep Date.....:	10/23/01	Analysis Date..:	10/23/01		
Prep Batch #...:	1296437	Analysis Time..:	14:24		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G15		
		Method.....:	SW846 8015B		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	81	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_1

GC Semivolatiles

Lot-Sample #...:	E1J230204-001	Work Order #...:	EMLLV1AH	Matrix.....:	SOLID
Date Sampled...:	10/23/01 09:00	Date Received..:	10/23/01 12:25	MS Run #.....:	1296246
Prep Date.....:	10/23/01	Analysis Date..:	10/24/01		
Prep Batch #...:	1296478	Analysis Time..:	09:03		
Dilution Factor:	1				
Analyst ID.....:	018568	Instrument ID..:	G8B		
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	10
Aroclor 1221	ND	33	ug/kg	10
Aroclor 1232	ND	33	ug/kg	10
Aroclor 1242	ND	33	ug/kg	10
Aroclor 1248	ND	33	ug/kg	10
Aroclor 1254	23 J	33	ug/kg	10
Aroclor 1260	93	33	ug/kg	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	116	(60 - 140)
Tetrachloro-m-xylene	102	(60 - 140)

NOTE(S):

J Estimated result. Result is less than RL.

AR1254 and AR1260 calculated by non-common peaks; AR1260 is weathered.

HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_1

GC/MS Volatiles

Lot-Sample #...: E1J230204-001 Work Order #...: EMLLV1AF Matrix.....: SOLID
Date Sampled...: 10/23/01 09:00 Date Received..: 10/23/01 12:25 MS Run #.....: 1297096
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1297233 Analysis Time..: 16:33
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	2.0
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	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
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	10
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: SP_24_102301_1

GC/MS Volatiles

Lot-Sample #...: E1J230204-001 Work Order #...: EMLLV1AF 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	5.0
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	96	(70 - 130)
1,2-Dichloroethane-d4	79	(60 - 140)
Toluene-d8	83	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_2

GC Semivolatiles

Lot-Sample #...: E1J230204-002 Work Order #...: EMLMJ1AD Matrix.....: SOLID
Date Sampled...: 10/23/01 09:05 Date Received..: 10/23/01 12:25 MS Run #.....: 1296227
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1296453 Analysis Time..: 22:33
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	**7.3 J**	**10**	**mg/kg**	**5.0**
C24-C27	**17**	**10**	**mg/kg**	**5.0**
C28-C31	**13**	**10**	**mg/kg**	**5.0**
C32-C35	**7.6 J**	**10**	**mg/kg**	**5.0**
C36-C39	ND	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	**51**	**10**	**mg/kg**	**5.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	78	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_2

GC Volatiles

Lot-Sample #...:	E1J230204-002	Work Order #...:	EMLMJ1AE	Matrix.....:	SOLID
Date Sampled...:	10/23/01 09:05	Date Received..:	10/23/01 12:25	MS Run #.....:	1296215
Prep Date.....:	10/23/01	Analysis Date..:	10/23/01		
Prep Batch #...:	1296437	Analysis Time..:	14:50		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G15		
		Method.....:	SW846 8015B		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	82	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_2

GC Semivolatiles

Lot-Sample #...:	E1J230204-002	Work Order #...:	EMLMJ1AH	Matrix.....:	SOLID
Date Sampled...:	10/23/01 09:05	Date Received..:	10/23/01 12:25	MS Run #.....:	1296246
Prep Date.....:	10/23/01	Analysis Date..:	10/24/01		
Prep Batch #...:	1296478	Analysis Time..:	09:42		
Dilution Factor:	1				
Analyst ID.....:	018568	Instrument ID..:	G8B		
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	33	ug/kg	10
Aroclor 1221	ND	33	ug/kg	10
Aroclor 1232	ND	33	ug/kg	10
Aroclor 1242	ND	33	ug/kg	10
Aroclor 1248	ND	33	ug/kg	10
Aroclor 1254	21 J	33	ug/kg	10
Aroclor 1260	36	33	ug/kg	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	100	(60 - 140)
Tetrachloro-m-xylene	87	(60 - 140)

NOTE(S):

J Estimated result. Result is less than RL.

AR1254 and AR1260 calculated by non-comon peaks; AR1260 is weathered.

HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_2

GC/MS Volatiles

Lot-Sample #...: E1J230204-002 Work Order #...: EMLMJ1AF Matrix.....: SOLID
Date Sampled...: 10/23/01 09:05 Date Received..: 10/23/01 12:25 MS Run #.....: 1297096
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1297233 Analysis Time..: 17:04
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	2.0
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	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
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	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_2

GC/MS Volatiles

Lot-Sample #...: E1J230204-002 Work Order #...: EMLMJ1AF 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	5.0
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	95	(70 - 130)
1,2-Dichloroethane-d4	78	(60 - 140)
Toluene-d8	83	(70 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_1

TOTAL Metals

Lot-Sample #...: E1J230204-001 Matrix.....: SOLID
Date Sampled...: 10/23/01 09:00 Date Received..: 10/23/01 12:25

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1296371						
Arsenic	4.6	1.0	mg/kg	SW846 6010B	10/23/01	EMLLV1AA
		Dilution Factor: 1		Analysis Time..: 17:32	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1296185	MDL.....: 0.40	
Lead	10.2	0.50	mg/kg	SW846 6010B	10/23/01	EMLLV1AC
		Dilution Factor: 1		Analysis Time..: 17:32	Analyst ID.....: 0210885	
		Instrument ID..: M01		MS Run #.....: 1296185	MDL.....: 0.30	

HALEY & ALDRICH INC

Client Sample ID: SP_24_102301_2

TOTAL Metals

Lot-Sample #...: E1J230204-002 Matrix.....: SOLID
Date Sampled...: 10/23/01 09:05 Date Received..: 10/23/01 12:25

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1296371						
Arsenic	7.0	1.0	mg/kg	SW846 6010B	10/23/01	EMLMJ1AA
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1296185	MDL.....: 0.40	
Lead	12.1	0.50	mg/kg	SW846 6010B	10/23/01	EMLMJ1AC
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 0210885	
		Instrument ID..: M01		MS Run #.....: 1296185	MDL.....: 0.30	

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QC DATA ASSOCIATION SUMMARY

E1J230204

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		1296453	1296227
	SOLID	SW846 8015B		1296437	1296215
	SOLID	SW846 8082		1296478	1296246
	SOLID	SW846 8260B		1297233	1297096
	SOLID	SW846 6010B		1296371	1296185
002	SOLID	SW846 8015B		1296453	1296227
	SOLID	SW846 8015B		1296437	1296215
	SOLID	SW846 8082		1296478	1296246
	SOLID	SW846 8260B		1297233	1297096
	SOLID	SW846 6010B		1296371	1296185

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1J230204
MB Lot-Sample #: E1J230000-437

Analysis Date..: 10/23/01
Dilution Factor: 1

Work Order #...: EML0A1AA

Prep Date.....: 10/23/01
Prep Batch #...: 1296437

Analyst ID.....: 001464

Matrix.....: SOLID

Analysis Time..: 13:55
Instrument ID..: G15

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)	89	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1J230204
MB Lot-Sample #: E1J230000-453

Analysis Date..: 10/23/01
Dilution Factor: 1

Work Order #...: EML131AA

Prep Date.....: 10/23/01
Prep Batch #...: 1296453

Analyst ID.....: 356074

Matrix.....: SOLID

Analysis Time..: 20:36
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	85	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1J230204
MB Lot-Sample #: E1J230000-478

Analysis Date..: 10/23/01
Dilution Factor: 1

Work Order #...: EML541AA

Prep Date.....: 10/23/01
Prep Batch #...: 1296478

Analyst ID.....: 018568

Matrix.....: SOLID

Analysis Time..: 18:46
Instrument ID..: G8B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	118	(60 - 140)
Tetrachloro-m-xylene	102	(60 - 140)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1J230204
MB Lot-Sample #: E1J240000-233

Analysis Date..: 10/23/01
Dilution Factor: 1

Work Order #...: EMM6R1AA

Prep Date.....: 10/23/01
Prep Batch #...: 1297233

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 10:53
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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1J230204 Work Order #...: EMM6R1AA 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
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	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	96	(70 - 130)
1,2-Dichloroethane-d4	82	(60 - 140)
Toluene-d8	83	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1J230204 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1J230000-371 Prep Batch #...: 1296371						
Arsenic	ND	1.0	mg/kg	SW846 6010B	10/23/01	EMLQC1AA
		Dilution Factor: 1				
		Analysis Time..: 17:17		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	10/23/01	EMLQC1AH
		Dilution Factor: 1				
		Analysis Time..: 17:17		Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E1J230204 Work Order #...: EML0A1AC Matrix.....: SOLID
LCS Lot-Sample#: E1J230000-437
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1296437 Analysis Time..: 13:28
Dilution Factor: 1 Instrument ID..: G15
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	5.00	4.14	mg/kg	83	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	125	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1J230204 Work Order #...: EML131AC Matrix.....: SOLID
LCS Lot-Sample#: E1J230000-453
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1296453 Analysis Time..: 21:15
Dilution Factor: 1 Instrument ID..: G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	250	246	mg/kg	98	SW846 8015B

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

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1J230204 Work Order #...: EML541AC Matrix.....: SOLID
LCS Lot-Sample#: E1J230000-478
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1296478 Analysis Time..: 19:25
Dilution Factor: 1 Instrument ID..: G8B
Analyst ID.....: 018568

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	333	342	ug/kg	103	SW846 8082
Aroclor 1260	333	359	ug/kg	108	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	124	(60 - 140)
Tetrachloro-m-xylene	121	(60 - 140)

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 #...: E1J230204 Work Order #...: EMM6R1AC Matrix.....: SOLID
LCS Lot-Sample#: E1J240000-233
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1297233 Analysis Time..: 10:23
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	50.0	41.6	ug/kg	83	SW846 8260B
Benzene	50.0	46.6	ug/kg	93	SW846 8260B
Trichloroethene	50.0	50.0	ug/kg	100	SW846 8260B
Toluene	50.0	47.3	ug/kg	95	SW846 8260B
Chlorobenzene	50.0	49.4	ug/kg	99	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(70 - 130)
1,2-Dichloroethane-d4	89	(60 - 140)
Toluene-d8	84	(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 #...: E1J230204 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1J230000-371 Prep Batch #...: 1296371							
Arsenic	200	178	mg/kg	89	SW846 6010B	10/23/01	EMLQC1AU
			Dilution Factor: 1				
			Analysis Time..: 17:24		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	44.2	mg/kg	88	SW846 6010B	10/23/01	EMLQC1A2
			Dilution Factor: 1				
			Analysis Time..: 17:24		Analyst ID.....: 021088	Instrument ID..: M01	

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E1J230204 Work Order #...: EML0A1AC Matrix.....: SOLID
LCS Lot-Sample#: E1J230000-437
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1296437 Analysis Time..: 13:28
Dilution Factor: 1 Instrument ID..: G15
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**83**	**(80 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	125	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1J230204 Work Order #...: EML131AC Matrix.....: SOLID
LCS Lot-Sample#: E1J230000-453
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1296453 Analysis Time..: 21:15
Dilution Factor: 1 Instrument ID..: G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**98**	**(60 - 130)**	**SW846 8015B**

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

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1J230204 Work Order #...: EML541AC Matrix.....: SOLID
LCS Lot-Sample#: E1J230000-478
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1296478 Analysis Time..: 19:25
Dilution Factor: 1 Instrument ID..: G8B
Analyst ID.....: 018568

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**103**	**(65 - 130)**	**SW846 8082**
Aroclor 1260	**108**	**(70 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	124	(60 - 140)
Tetrachloro-m-xylene	121	(60 - 140)

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 #...: E1J230204 Work Order #...: EMM6R1AC Matrix.....: SOLID
LCS Lot-Sample#: E1J240000-233
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1297233 Analysis Time..: 10:23
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**83**	**(60 - 150)**	**SW846 8260B**
Benzene	**93**	**(70 - 140)**	**SW846 8260B**
Trichloroethene	**100**	**(70 - 130)**	**SW846 8260B**
Toluene	**95**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**99**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(70 - 130)
1,2-Dichloroethane-d4	89	(60 - 140)
Toluene-d8	84	(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 #...: E1J230204 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1J230000-371 Prep Batch #...: 1296371					
Arsenic	89	(75 - 115)	SW846 6010B	10/23/01	EMLQC1AU
		Dilution Factor: 1			
		Analysis Time..: 17:24	Analyst ID.....: 021088		Instrument ID..: M01
Lead	88	(80 - 120)	SW846 6010B	10/23/01	EMLQC1A2
		Dilution Factor: 1			
		Analysis Time..: 17:24	Analyst ID.....: 021088		Instrument ID..: M01

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 #...:	E1J230204	Work Order #...:	EMKGM1AD-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1J220194-002		EMKGM1AE-MSD		
Date Sampled...:	10/22/01 11:45	Date Received..:	10/22/01 17:45	MS Run #.....:	1297096
Prep Date.....:	10/23/01	Analysis Date..:	10/23/01		
Prep Batch #...:	1297233	Analysis Time..:	18:05		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	44.1	ug/kg	88		SW846 8260B
	ND	50.0	37.1	ug/kg	74	17	SW846 8260B
Benzene	ND	50.0	45.4	ug/kg	91		SW846 8260B
	ND	50.0	40.8	ug/kg	82	11	SW846 8260B
Trichloroethene	ND	50.0	50.8	ug/kg	102		SW846 8260B
	ND	50.0	45.3	ug/kg	91	11	SW846 8260B
Toluene	ND	50.0	45.6	ug/kg	91		SW846 8260B
	ND	50.0	39.0	ug/kg	78	16	SW846 8260B
Chlorobenzene	ND	50.0	47.8	ug/kg	96		SW846 8260B
	ND	50.0	41.4	ug/kg	83	14	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(70 - 130)
	91	(70 - 130)
1,2-Dichloroethane-d4	85	(60 - 140)
	87	(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

TOTAL Metals

Client Lot #...: E1J230204 Matrix.....: SOLID
Date Sampled...: 10/22/01 10:10 Date Received..: 10/23/01 10:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J230198-001 Prep Batch #...: 1296371									
Arsenic									
	23.2	200	202	mg/kg	89		SW846 6010B	10/23/01	EMLJ81AU
	23.2	200	200	mg/kg	89	0.59	SW846 6010B	10/23/01	EMLJ81AV
			Dilution Factor: 1						
			Analysis Time..: 18:05 .		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1296185						
Lead									
	436	50.0	503 NC	mg/kg			SW846 6010B	10/23/01	EMLJ81A8
	436	50.0	480 NC	mg/kg			SW846 6010B	10/23/01	EMLJ81A9
			Dilution Factor: 1						
			Analysis Time..: 18:05		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1296185						

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E1J230204	**Work Order #...:**	EMLLV1AJ-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1J230204-001		EMLLV1AK-MSD		
Date Sampled...:	10/23/01 09:00	**Date Received..:**	10/23/01 12:25	**MS Run #.....:**	1296246
Prep Date.....:	10/23/01	**Analysis Date..:**	10/23/01		
Prep Batch #...:	1296478	**Analysis Time..:**	21:25		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**ND**	333	**304**	**ug/kg**	**91**		**SW846 8082**
	ND	333	**317**	**ug/kg**	**95**	**4.3**	**SW846 8082**
Aroclor 1260	**93**	333	**311**	**ug/kg**	**65**		**SW846 8082**
	Qualifiers: a,MSC						
	93	333	**319**	**ug/kg**	**68**	**2.5**	**SW846 8082**
	Qualifiers: a,MSC						

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	114	(60 - 140)
	118	(60 - 140)
Tetrachloro-m-xylene	101	(60 - 140)
	105	(60 - 140)

NOTE(S) :

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

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

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E1J230204 Work Order #...: EMLMJ1AJ-MS Matrix.....: SOLID
MS Lot-Sample #: E1J230204-002 EMLMJ1AK-MSD
Date Sampled...: 10/23/01 09:05 Date Received..: 10/23/01 12:25 MS Run #.....: 1296215
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1296437 Analysis Time..: 15:17
Dilution Factor: 1 Analyst ID.....: 001464 Instrument ID..: G15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**ND**	**5.00**	**4.55**	**mg/kg**	**91**		**SW846 8015B**
	ND	**5.00**	**4.74**	**mg/kg**	**95**	**4.1**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	110	(60 - 130)
	109	(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 Semivolatiles

Client Lot #...:	E1J230204	Work Order #...:	EMLMJ1AL-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1J230204-002		EMLMJ1AM-MSD		
Date Sampled...:	10/23/01 09:05	Date Received..:	10/23/01 12:25	MS Run #.....:	1296227
Prep Date.....:	10/23/01	Analysis Date..:	10/23/01		
Prep Batch #...:	1296453	Analysis Time..:	23:12		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	ND	250	232	mg/kg	93		SW846 8015B
	ND	250	206	mg/kg	82	12	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	83	(60 - 130)
	71	(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 #...: E1J230204 Work Order #...: EMKGM1AD-MS Matrix.....: SOLID
MS Lot-Sample #: E1J220194-002 EMKGM1AE-MSD
Date Sampled...: 10/22/01 11:45 Date Received..: 10/22/01 17:45 MS Run #.....: 1297096
Prep Date.....: 10/23/01 Analysis Date..: 10/23/01
Prep Batch #...: 1297233 Analysis Time..: 18:05
Dilution Factor: 1 Analyst ID.....: 999998 Instrument ID..: MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	88	(60 - 150)			SW846 8260B
	74	(60 - 150)	17	(0-30)	SW846 8260B
Benzene	91	(70 - 140)			SW846 8260B
	82	(70 - 140)	11	(0-30)	SW846 8260B
Trichloroethene	102	(70 - 130)			SW846 8260B
	91	(70 - 130)	11	(0-30)	SW846 8260B
Toluene	91	(70 - 130)			SW846 8260B
	78	(70 - 130)	16	(0-30)	SW846 8260B
Chlorobenzene	96	(70 - 130)			SW846 8260B
	83	(70 - 130)	14	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(70 - 130)
	91	(70 - 130)
1,2-Dichloroethane-d4	85	(60 - 140)
	87	(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

TOTAL Metals

Client Lot #...: E1J230204 Matrix.....: SOLID
Date Sampled...: 10/22/01 10:10 Date Received..: 10/23/01 10:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1J230198-001 Prep Batch #...: 1296371							
Arsenic	89	(75 - 115)			SW846 6010B	10/23/01	EMLJ81AU
	89	(75 - 115)	0.59	(0-25)	SW846 6010B	10/23/01	EMLJ81AV
		Dilution Factor: 1					
		Analysis Time..: 18:05			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1296185					
Lead	NC	(80 - 120)			SW846 6010B	10/23/01	EMLJ81A8
	NC	(80 - 120)		(0-25)	SW846 6010B	10/23/01	EMLJ81A9
		Dilution Factor: 1					
		Analysis Time..: 18:05			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1296185					

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E1J230204	Work Order #...:	EMLLV1AJ-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1J230204-001		EMLLV1AK-MSD		
Date Sampled...:	10/23/01 09:00	Date Received..:	10/23/01 12:25	MS Run #.....:	1296246
Prep Date.....:	10/23/01	Analysis Date..:	10/23/01		
Prep Batch #...:	1296478	Analysis Time..:	21:25		
Dilution Factor:	1	Analyst ID.....:	018568	Instrument ID..:	G8B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	91	(65 - 130)			SW846 8082
	95	(65 - 130)	4.3	(0-30)	SW846 8082
Aroclor 1260	65 a,MSC	(70 - 130)			SW846 8082
	68 a,MSC	(70 - 130)	2.5	(0-30)	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	114	(60 - 140)
	118	(60 - 140)
Tetrachloro-m-xylene	101	(60 - 140)
	105	(60 - 140)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E1J230204	Work Order #...:	EMLMJ1AJ-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1J230204-002		EMLMJ1AK-MSD		
Date Sampled...:	10/23/01 09:05	Date Received..:	10/23/01 12:25	MS Run #.....:	1296215
Prep Date.....:	10/23/01	Analysis Date..:	10/23/01		
Prep Batch #...:	1296437	Analysis Time..:	15:17		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G1S

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**91**	**(80 - 140)**			**SW846 8015B**
	95	**(80 - 140)**	**4.1**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	110	(60 - 130)
	109	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E1J230204	Work Order #...:	EMLMJ1AL-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1J230204-002		EMLMJ1AM-MSD		
Date Sampled...:	10/23/01 09:05	Date Received..:	10/23/01 12:25	MS Run #.....:	1296227
Prep Date.....:	10/23/01	Analysis Date..:	10/23/01		
Prep Batch #...:	1296453	Analysis Time..:	23:12		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**93**	**(60 - 130)**			**SW846 8015B**
	82	**(60 - 130)**	**12**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	83	(60 - 130)
	71	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

SEVERN
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Subcontract Reports

000048

Del Mar Analytical

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

LABORATORY REPORT

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

Attention: Diane Suzuki
Project: E1J230204

Sampled: 10/23/01
Received: 10/24/01
Reported: 10/31/01

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

CA ELAP Certificate #1169
AZ DHS License #AZ0062

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

000043

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

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

Client Project ID: E1J230204

Report Number: CKJ0309

Sampled:10/23/01
Received:10/24/01

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKJ0309-01 (SP_24_102301_1 - Soil)								
Acenaphthene	EPA 8310	C1J2610	50	ND	1	10/26/01	10/30/01	
Acenaphthylene	EPA 8310	C1J2610	200	ND	1	10/26/01	10/30/01	
Anthracene	EPA 8310	C1J2610	2.0	ND	1	10/26/01	10/30/01	
Benzo(a)anthracene	EPA 8310	C1J2610	2.0	**9.2**	1	10/26/01	10/30/01	
Benzo(a)pyrene	EPA 8310	C1J2610	2.0	**12**	1	10/26/01	10/30/01	
Benzo(b)fluoranthene	EPA 8310	C1J2610	5.0	ND	1	10/26/01	10/30/01	
Benzo(g,h,i)perylene	EPA 8310	C1J2610	5.0	**7.3**	1	10/26/01	10/30/01	
Benzo(k)fluoranthene	EPA 8310	C1J2610	2.0	**6.0**	1	10/26/01	10/30/01	
Chrysene	EPA 8310	C1J2610	5.0	ND	1	10/26/01	10/30/01	
Dibenzo(a,h)anthracene	EPA 8310	C1J2610	5.0	ND	1	10/26/01	10/30/01	
Fluoranthene	EPA 8310	C1J2610	5.0	**26**	1	10/26/01	10/30/01	
Fluorene	EPA 8310	C1J2610	5.0	ND	1	10/26/01	10/30/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1J2610	5.0	ND	1	10/26/01	10/30/01	
Naphthalene	EPA 8310	C1J2610	40	ND	1	10/26/01	10/30/01	
Phenanthrene	EPA 8310	C1J2610	5.0	**9.8**	1	10/26/01	10/30/01	
Pyrene	EPA 8310	C1J2610	5.0	**20**	1	10/26/01	10/30/01	
Surrogate: 2-Methylanthracene (35-115%)				*90.5 %*				
Sample ID: CKJ0309-02 (SP_24_102301_2 - Soil)								
Acenaphthene	EPA 8310	C1J2610	250	ND	5	10/26/01	10/30/01	
Acenaphthylene	EPA 8310	C1J2610	1000	ND	5	10/26/01	10/30/01	
Anthracene	EPA 8310	C1J2610	10	ND	5	10/26/01	10/30/01	
Benzo(a)anthracene	EPA 8310	C1J2610	10	**25**	5	10/26/01	10/30/01	
Benzo(a)pyrene	EPA 8310	C1J2610	10	**32**	5	10/26/01	10/30/01	
Benzo(b)fluoranthene	EPA 8310	C1J2610	25	ND	5	10/26/01	10/30/01	
Benzo(g,h,i)perylene	EPA 8310	C1J2610	25	ND	5	10/26/01	10/30/01	
Benzo(k)fluoranthene	EPA 8310	C1J2610	10	**14**	5	10/26/01	10/30/01	
Chrysene	EPA 8310	C1J2610	25	ND	5	10/26/01	10/30/01	
Dibenzo(a,h)anthracene	EPA 8310	C1J2610	25	ND	5	10/26/01	10/30/01	
Fluoranthene	EPA 8310	C1J2610	25	**74**	5	10/26/01	10/30/01	
Fluorene	EPA 8310	C1J2610	25	ND	5	10/26/01	10/30/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1J2610	25	ND	5	10/26/01	10/30/01	
Naphthalene	EPA 8310	C1J2610	200	ND	5	10/26/01	10/30/01	
Phenanthrene	EPA 8310	C1J2610	25	**53**	5	10/26/01	10/30/01	
Pyrene	EPA 8310	C1J2610	25	**62**	5	10/26/01	10/30/01	
Surrogate: 2-Methylanthracene (35-115%)				*96.8 %*				

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

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

Client Project ID: E1J230204

Report Number: CKJ0309

Sampled:10/23/01
Received:10/24/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1J2610 Extracted: 10/26/01										
Blank Analyzed: 10/30/01 (C1J2610-BLK1)										
Acenaphthene	ND	50	ug/kg							
Acenaphthylene	ND	200	ug/kg							
Anthracene	ND	2.0	ug/kg							
Benzo(a)anthracene	ND	2.0	ug/kg							
Benzo(a)pyrene	ND	2.0	ug/kg							
Benzo(b)fluoranthene	ND	5.0	ug/kg							
Benzo(g,h,i)perylene	ND	5.0	ug/kg							
Benzo(k)fluoranthene	ND	2.0	ug/kg							
Chrysene	ND	5.0	ug/kg							
Dibenzo(a,h)anthracene	ND	5.0	ug/kg							
Fluoranthene	ND	5.0	ug/kg							
Fluorene	ND	5.0	ug/kg							
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg							
Naphthalene	ND	40	ug/kg							
Phenanthrene	ND	5.0	ug/kg							
Pyrene	ND	5.0	ug/kg							
Surrogate: 2-Methylanthracene	*4.61*		*ug/kg*	*8.00*		*57.6*	*35-115*			
LCS Analyzed: 10/30/01 (C1J2610-BS1)										**M-NR**
Acenaphthene	117	50	ug/kg	160		73.1	45-115			
Acenaphthylene	298	200	ug/kg	320		93.1	50-115			
Anthracene	10.9	2.0	ug/kg	16.0		68.1	55-115			
Benzo(a)anthracene	14.0	2.0	ug/kg	16.0		87.5	65-115			
Benzo(a)pyrene	9.76	2.0	ug/kg	16.0		61.0	55-115			
Benzo(b)fluoranthene	26.4	5.0	ug/kg	32.0		82.5	65-115			
Benzo(g,h,i)perylene	27.6	5.0	ug/kg	32.0		86.2	60-115			
Benzo(k)fluoranthene	13.4	2.0	ug/kg	16.0		83.8	65-115			
Chrysene	13.8	5.0	ug/kg	16.0		86.2	65-115			
Dibenzo(a,h)anthracene	27.8	5.0	ug/kg	32.0		86.9	60-115			
Fluoranthene	27.3	5.0	ug/kg	32.0		85.3	65-115			
Fluorene	24.6	5.0	ug/kg	32.0		76.9	55-115			
Indeno(1,2,3-cd)pyrene	13.2	5.0	ug/kg	16.0		82.5	55-115			
Naphthalene	134	40	ug/kg	160		83.8	45-115			
Phenanthrene	13.8	5.0	ug/kg	16.0		86.2	55-120			
Pyrene	15.1	5.0	ug/kg	16.0		94.4	55-115			

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

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

Client Project ID: E1J230204

Report Number: CKJ0309

Sampled:10/23/01
Received:10/24/01

METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1J2610 Extracted: 10/26/01										
LCS Analyzed: 10/30/01 (C1J2610-BS1)										**M-NR**
Surrogate: 2-Methylanthracene	*5.35*		*ug/kg*	*8.00*		*66.9*	*35-115*			

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

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

Client Project ID: E1J230204

Report Number: CKJ0309

Sampled:10/23/01
Received:10/24/01

DATA QUALIFIERS AND DEFINITIONS

M-NR	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

Del Mar Analytical, Colton
Clifton J. Kiser
Project Manager

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[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: STL LOS ANGELES	Project Manager: DIANE SUZUKI	Date: 10-23-01	Chain of Custody Number: 049104
Address: 1721 S GRAND AVE	Telephone Number (Area Code)/Fax Number: 714-258-8610	Lab Number:	Page ____ of ____
City: SANTA ANA; State: CA; Zip Code: 92705	Site Contact: –	Lab Contact:	
Project Name and Location (State):	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

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

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	8310
SP_24_102301_1	10/23/01	0900				X		X						X
SP_24_102301_2	10/23/01	0905				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 ____

QC Requirements (Specify): 10C

	Date	Time		Date	Time
1. Relinquished By	10/23/01	14:02	1. Received By	10-23-01	1410
2. Relinquished By	10-23-01	1450	2. Received By	10-23-01	1450
3. Relinquished By	10-24-01	1525	3. Received By 10/24/01		1525

Comments: 10/24/01 1705 10/24/01 17:05

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

000054

BOE-C6-0180988

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

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

December 10, 2001

STL LOT NUMBER: E1K300329
NELAP Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002-S56

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 202
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 November 30, 2001. 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

STL Los Angeles 2

BOE-C6-0180989

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: H & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 11/30/01	Chain of Custody Number: 049298
Address: 9040 FRIARS RD SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: EIK300329	Page 1 of 1
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact	Lab Contact	
Project Name and Location (State): C6 - TORRANCE, CA	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 27960-001			

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): VOCS + TICs	TPH	METALS	PAH								Special Instructions/ Conditions of Receipt
1-VEW-24-113001	11/30/01	14:00				X		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: 11/30/01	Time: 17:00	1. Received By: [signature]	Date: 11/30/01	Time: 17:00
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

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

200002

STL Los Angeles

3

BOE-C6-0180990

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 11/30/01

Quantims Lot #: EIK 300329
Quote #: 4229T
Client Name: Haley & Aldrich
Project: Boeing C6 Torrance
Received by: Pacolb
Date/Time Received: 11/30/01 17:00
Delivered by : ☒Client ☐Airborne ☐Fed Ex ☐DHL ☐In-House Courier ☐Rey B. ☐UPS ☐DES ☐Other _____

	Initial / Date
Custody Seal Status: ☐Intact ☐Broken ☒None	DOR 11/30/01
Custody Seal #(s): ☒No Seal #	
Sample Container(s): ☐STL-LA ☐Client ☐N/A	
Temperature(s) (Cooler/blank) in °C: 9 Correction factor -3°C (Corrected Temp.) 6C	
Thermometer Used : ID: A ☒IR (Infra-red) ☐Digital (Probe)	
Samples: ☒Intact ☐Broken ☐Other	
Anomalies: ☒No ☐Yes (See Clouseau)	
Labeled by DOR	
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) : PAH to WSAC

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

Fraction	1										PH
VOAh 1*											N/A
4oz CGJ	3										—

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: Pacolb 11/30/01 REVIEWED BY/DATE: 12/4/01

PRC Ver. 4 081401 KRF

000003

BOE-C6-0180991

SEVERN
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SERVICES

Analytical Report

000004

BOE-C6-0180992

EXECUTIVE SUMMARY - Detection Highlights

E1K300329

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
1_VEW_24_113001 11/30/01 14:00 001				
Mercury	0.086 B	0.10	mg/kg	SW846 7471A
Aluminum	20100	20.0	mg/kg	SW846 6010B
Arsenic	6.4	1.0	mg/kg	SW846 6010B
Barium	149	2.0	mg/kg	SW846 6010B
Cadmium	0.16 B,J	0.50	mg/kg	SW846 6010B
Chromium	31.5 J	1.0	mg/kg	SW846 6010B
Beryllium	0.71 J	0.50	mg/kg	SW846 6010B
Lead	6.0	0.50	mg/kg	SW846 6010B
Cobalt	11.3	5.0	mg/kg	SW846 6010B
Copper	26.7	2.5	mg/kg	SW846 6010B
Molybdenum	1.9 B	4.0	mg/kg	SW846 6010B
Nickel	21.0	4.0	mg/kg	SW846 6010B
Vanadium	56.8	5.0	mg/kg	SW846 6010B
Zinc	73.0	2.0	mg/kg	SW846 6010B
2-Butanone	51	25	ug/kg	SW846 8260B

000005

BOE-C6-0180993

METHODS SUMMARY

E1K300329

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.

000006

BOE-C6-0180994

SAMPLE SUMMARY

E1K300329

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EPRDF	001	1_VEW_24_113001	11/30/01	14:00

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.

000007

BOE-C6-0180995

HALEY & ALDRICH INC

Client Sample ID: 1_VEW_24_113001

GC Semivolatiles

Lot-Sample #...: E1K300329-001 Work Order #...: EPRDF1AA Matrix.....: SOLID
Date Sampled...: 11/30/01 14:00 Date Received..: 11/30/01 16:50 MS Run #.....: 1337164
Prep Date.....: 12/03/01 Analysis Date..: 12/04/01
Prep Batch #...: 1337324 Analysis Time..: 15:22
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
TPH (as Diesel)	ND	10	mg/kg	6.0
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	85	(60 - 130)

000008

HALEY & ALDRICH INC

Client Sample ID: 1_VEW_24_113001

GC Volatiles

Lot-Sample #...:	E1K300329-001	Work Order #...:	EPRDF1AC	Matrix.....:	SOLID
Date Sampled...:	11/30/01 14:00	Date Received..:	11/30/01 16:50	MS Run #.....:	1338166
Prep Date.....:	12/04/01	Analysis Date..:	12/04/01		
Prep Batch #...:	1338348	Analysis Time..:	00:47		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G15		
		Method.....:	SW846 8015B		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	85	(60 - 130)

000009

HALEY & ALDRICH INC

Client Sample ID: 1_VEW_24_113001

GC/MS Volatiles

Lot-Sample #...: E1K300329-001 Work Order #...: EPRDF1AD Matrix.....: SOLID
Date Sampled...: 11/30/01 14:00 Date Received..: 11/30/01 16:50 MS Run #.....: 1338156
Prep Date.....: 12/03/01 Analysis Date..: 12/03/01
Prep Batch #...: 1338327 Analysis Time..: 16:06
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	2.0
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	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
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	51	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	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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000010

HALEY & ALDRICH INC

Client Sample ID: 1_VEW_24_113001

GC/MS Volatiles

Lot-Sample #...: E1K300329-001 Work Order #...: EPRDF1AD 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	5.0
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	76	(65 - 135)
1,2-Dichloroethane-d4	102	(60 - 140)
Toluene-d8	83	(70 - 130)

000011

BOE-C6-0180999

HALEY & ALDRICH INC

Client Sample ID: 1_VEW_24_113001

HPLC

Lot-Sample #...:	E1K300329-001	Work Order #...:	EPRDF1A1	Matrix.....:	SOLID
Date Sampled...:	11/30/01 14:00	Date Received..:	11/30/01 16:50	MS Run #.....:	1337148
Prep Date.....:	12/03/01	Analysis Date..:	12/05/01		
Prep Batch #...:	1337305	Analysis Time..:	18:47		
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	60	(41 - 115)

000012

HALEY & ALDRICH INC

Client Sample ID: 1_VEW_24_113001

TOTAL Metals

Lot-Sample #...: E1K300329-001 Matrix.....: SOLID
Date Sampled...: 11/30/01 14:00 Date Received..: 11/30/01 16:50

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1337261						
Aluminum	20100	20.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AE
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 8.0	
Arsenic	6.4	1.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AF
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AG
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.60	
Barium	149	2.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AH
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.10	
Cadmium	0.16 B,J	0.50	mg/kg	SW846 6010B	12/03/01	EPRDF1AJ
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.060	
Chromium	31.5 J	1.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AK
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.10	
Beryllium	0.71 J	0.50	mg/kg	SW846 6010B	12/03/01	EPRDF1AL
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.050	
Lead	6.0	0.50	mg/kg	SW846 6010B	12/03/01	EPRDF1AM
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/03/01	EPRDF1AN
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.40	

(Continued on next page)

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HALEY & ALDRICH INC

Client Sample ID: 1_VEW_24_113001

TOTAL Metals

Lot-Sample #...: E1K300329-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AP
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.10	
Cobalt	11.3	5.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AQ
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.10	
Copper	26.7	2.5	mg/kg	SW846 6010B	12/03/01	EPRDF1AR
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.40	
Molybdenum	1.9 B	4.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AT
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.30	
Nickel	21.0	4.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AU
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AV
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.80	
Vanadium	56.8	5.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AW
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 0.10	
Zinc	73.0	2.0	mg/kg	SW846 6010B	12/03/01	EPRDF1AX
		Dilution Factor: 1		Analysis Time..: 17:53	Analyst ID.....: 0210880	
		Instrument ID..: M01		MS Run #.....: 1337110	MDL.....: 1.0	
Prep Batch #...: 1337296						
Mercury	0.086 B	0.10	mg/kg	SW846 7471A	12/03-12/04/01	EPRDF1A0
		Dilution Factor: 1		Analysis Time..: 13:37	Analyst ID.....: 0000230	
		Instrument ID..: M04		MS Run #.....: 1337138	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

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

000014

SEVERN
TRENT
SERVICES

QA/QC

000015

QC DATA ASSOCIATION SUMMARY

E1K300329

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		1337324	1337164
	SOLID	SW846 8015B		1338348	1338166
	SOLID	SW846 7471A		1337296	1337138
	SOLID	SW846 8260B		1338327	1338156
	SOLID	SW846 6010B		1337261	1337110
	SOLID	SW846 8310		1337305	1337148

000016

BOE-C6-0181004

METHOD BLANK REPORT

HPLC

Client Lot #...: E1K300329
MB Lot-Sample #: G1L030000-305

Work Order #...: EPTN41AA

Matrix.....: SOLID

Prep Date.....: 12/03/01

Analysis Time..: 17:38

Analysis Date..: 12/05/01

Prep Batch #...: 1337305

Instrument ID..: LC7

Dilution Factor: 1

Analyst ID.....: 033077

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	86	(41 - 115)

NOTE(S):

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

000017

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1K300329
MB Lot-Sample #: E1L030000-324

Work Order #...: EPTR51AA

Matrix.....: SOLID

Prep Date.....: 12/03/01

Analysis Time..: 14:04

Analysis Date..: 12/04/01

Prep Batch #...: 1337324

Instrument ID..: G02

Dilution Factor: 1

Analyst ID.....: 356074

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	85	(60 - 130)

NOTE(S):

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

The surrogate recoveries for C10-C25-10.654 ppm=85.2%

000018

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1K300329
MB Lot-Sample #: E1L040000-327

Analysis Date..: 12/03/01
Dilution Factor: 1

Work Order #...: EPV941AA

Prep Date.....: 12/03/01
Prep Batch #...: 1338327

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 13:04
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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1K300329 Work Order #...: EPV941AA 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	77	(65 - 135)
1,2-Dichloroethane-d4	100	(60 - 140)
Toluene-d8	82	(70 - 130)

NOTE(S):

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

000020

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1K300329
MB Lot-Sample #: E1L040000-348

Work Order #...: EPWKK1AA

Matrix.....: SOLID

Prep Date.....: 12/03/01
Prep Batch #...: 1338348

Analysis Time..: 23:53
Instrument ID..: G15

Analysis Date..: 12/03/01
Dilution Factor: 1

Analyst ID.....: 001464

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	84	(60 - 130)

NOTE(S):

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

000021

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1K300329 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1L030000-261 Prep Batch #...: 1337261						
Aluminum	ND	20.0	mg/kg	SW846 6010B	12/03/01	EPTJW1AN
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	12/03/01	EPTJW1AP
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	12/03/01	EPTJW1AO
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	12/03/01	EPTJW1AQ
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	0.10 B	0.50	mg/kg	SW846 6010B	12/03/01	EPTJW1AV
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	0.12 B	1.0	mg/kg	SW846 6010B	12/03/01	EPTJW1AX
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	0.098 B	0.50	mg/kg	SW846 6010B	12/03/01	EPTJW1AR
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	12/03/01	EPTJW1AL
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	12/03/01	EPTJW1A1
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	12/03/01	EPTJW1AM
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	12/03/01	EPTJW1AW
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

000022

BOE-C6-0181010

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1K300329 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	12/03/01	EPTJW1AA
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	12/03/01	EPTJW1AH
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	12/03/01	EPTJW1AK
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	12/03/01	EPTJW1A5
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	12/03/01	EPTJW1A6
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	12/03/01	EPTJW1A7
		Dilution Factor: 1				
		Analysis Time..: 17:02		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E1L030000-296 Prep Batch #...: 1337296

Mercury	ND	0.10	mg/kg	SW846 7471A	12/03-12/04/01	EPTNH1AA
		Dilution Factor: 1				
		Analysis Time..: 13:34		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.

000023

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: E1K300329 **Work Order #...:** EPTN41AC **Matrix.....:** SOLID
LCS Lot-Sample#: G1L030000-305
Prep Date.....: 12/03/01 **Analysis Date..:** 12/05/01
Prep Batch #...: 1337305 **Analysis Time..:** 18:12
Dilution Factor: 1 **Instrument ID..:** LC7
Analyst ID.....: 033077

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	1330	1150	ug/kg	86	SW846 8310
Acenaphthylene	667	603	ug/kg	90	SW846 8310
Anthracene	26.6	20.4	ug/kg	77	SW846 8310
Benzo(a)anthracene	66.7	62.3	ug/kg	93	SW846 8310
Benzo(a)pyrene	**66.7**	**58.8**	**ug/kg**	**88**	**SW846 8310**
Benzo(b)fluoranthene	26.6	22.5	ug/kg	85	SW846 8310
Benzo(ghi)perylene	106	92.9	ug/kg	87	SW846 8310
Benzo(k)fluoranthene	26.6	24.5	ug/kg	92	SW846 8310
Chrysene	66.7	61.8	ug/kg	93	SW846 8310
Dibenz(a,h)anthracene	266	213	ug/kg	80	SW846 8310
Fluoranthene	66.7	54.0	ug/kg	81	SW846 8310
Fluorene	**133**	**86.7**	**ug/kg**	**65**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**66.7**	**60.8**	**ug/kg**	**91**	**SW846 8310**
Naphthalene	**667**	**565**	**ug/kg**	**85**	**SW846 8310**
Phenanthrene	53.2	39.5	ug/kg	74	SW846 8310
Pyrene	**133**	**115**	**ug/kg**	**86**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	97	(41 - 115)

NOTE(S):

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

Bold print denotes control parameters

000024

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1K300329 Work Order #...: EPTR51AC Matrix.....: SOLID
LCS Lot-Sample#: E1L030000-324
Prep Date.....: 12/03/01 Analysis Date..: 12/04/01
Prep Batch #...: 1337324 Analysis Time..: 14:43
Dilution Factor: 1 Instrument ID..: G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**190**	**mg/kg**	**76**	**SW846 8015B**
Diesel Range Organics (C10-C25)	**250**	**188**	**mg/kg**	**75**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	80	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

The surrogate recoveries for C10-C25-9.9556 ppm=79.65%

000025

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1K300329 Work Order #...: EPV941AC Matrix.....: SOLID
LCS Lot-Sample#: E1L040000-327
Prep Date.....: 12/03/01 Analysis Date..: 12/03/01
Prep Batch #...: 1338327 Analysis Time..: 12:33
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**63.7**	**ug/kg**	**127**	**SW846 8260B**
Benzene	**50.0**	**62.6**	**ug/kg**	**125**	**SW846 8260B**
Trichloroethene	**50.0**	**61.9**	**ug/kg**	**124**	**SW846 8260B**
Toluene	**50.0**	**44.9**	**ug/kg**	**90**	**SW846 8260B**
Chlorobenzene	**50.0**	**45.9**	**ug/kg**	**92**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	81	(65 - 135)
1,2-Dichloroethane-d4	113	(60 - 140)
Toluene-d8	84	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

000026

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E1K300329 Work Order #...: EPWKK1AC Matrix.....: SOLID
LCS Lot-Sample#: E1L040000-348
Prep Date.....: 12/04/01 Analysis Date..: 12/04/01
Prep Batch #...: 1338348 Analysis Time..: 00:20
Dilution Factor: 1 Instrument ID..: G15
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**4.86**	**mg/kg**	**97**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	111	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

000027

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1K300329 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1L030000-261 **Prep Batch #...:** 1337261							
Aluminum	200	190	mg/kg	95	SW846 6010B	12/03/01	EPTJW1CL
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	200	197	mg/kg	98	SW846 6010B	12/03/01	EPTJW1CM
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	50.0	43.7	mg/kg	87	SW846 6010B	12/03/01	EPTJW1CW
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	200	192	mg/kg	96	SW846 6010B	12/03/01	EPTJW1CN
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	5.00	4.98	mg/kg	100	SW846 6010B	12/03/01	EPTJW1CT
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	20.0	21.3	mg/kg	106	SW846 6010B	12/03/01	EPTJW1CV
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	5.00	5.45	mg/kg	109	SW846 6010B	12/03/01	EPTJW1CP
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	50.0	48.1	mg/kg	96	SW846 6010B	12/03/01	EPTJW1CJ
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	200	182	mg/kg	91	SW846 6010B	12/03/01	EPTJW1CX
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	5.00	4.67	mg/kg	93	SW846 6010B	12/03/01	EPTJW1CK
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

000028

BOE-C6-0181016

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1K300329 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	50.7	mg/kg	101	SW846 6010B	12/03/01	EPTJW1CU
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Copper	25.0	23.6	mg/kg	94	SW846 6010B	12/03/01	EPTJW1A8
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	100	101	mg/kg	101	SW846 6010B	12/03/01	EPTJW1CF
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	50.0	50.2	mg/kg	100	SW846 6010B	12/03/01	EPTJW1CH
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	200	195	mg/kg	98	SW846 6010B	12/03/01	EPTJW1C3
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	50.0	51.4	mg/kg	103	SW846 6010B	12/03/01	EPTJW1C4
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	50.0	52.4	mg/kg	105	SW846 6010B	12/03/01	EPTJW1C5
			Dilution Factor: 1				
			Analysis Time..: 17:07		Analyst ID.....: 021088	Instrument ID..: M01	

LCS Lot-Sample#: E1L030000-296 Prep Batch #...: 1337296

Mercury	0.833	0.782	mg/kg	94	SW846 7471A	12/03-12/04/01	EPTNH1AC
			Dilution Factor: 1				
			Analysis Time..: 13:36		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

000029

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: E1K300329 Work Order #...: EPTN41AC Matrix.....: SOLID
LCS Lot-Sample#: G1L030000-305
Prep Date.....: 12/03/01 Analysis Date..: 12/05/01
Prep Batch #...: 1337305 Analysis Time..: 18:12
Dilution Factor: 1 Instrument ID..: LC7
Analyst ID.....: 033077

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	86	(50 - 150)	SW846 8310
Acenaphthylene	90	(50 - 150)	SW846 8310
Anthracene	77	(50 - 150)	SW846 8310
Benzo(a)anthracene	93	(50 - 150)	SW846 8310
Benzo(a)pyrene	**88**	**(49 - 107)**	**SW846 8310**
Benzo(b)fluoranthene	85	(50 - 150)	SW846 8310
Benzo(ghi)perylene	87	(50 - 150)	SW846 8310
Benzo(k)fluoranthene	92	(50 - 150)	SW846 8310
Chrysene	93	(50 - 150)	SW846 8310
Dibenz(a,h)anthracene	80	(50 - 150)	SW846 8310
Fluoranthene	81	(50 - 150)	SW846 8310
Fluorene	**65**	**(43 - 112)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**91**	**(54 - 114)**	**SW846 8310**
Naphthalene	**85**	**(44 - 110)**	**SW846 8310**
Phenanthrene	74	(50 - 150)	SW846 8310
Pyrene	**86**	**(49 - 115)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	97	(41 - 115)

NOTE(S):
Calculations are performed before rounding to avoid round-off errors in calculated results.
Bold print denotes control parameters

000030

BOE-C6-0181018

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E1K300329 Work Order #...: EPTR51AC Matrix.....: SOLID
LCS Lot-Sample#: E1L030000-324
Prep Date.....: 12/03/01 Analysis Date..: 12/04/01
Prep Batch #...: 1337324 Analysis Time..: 14:43
Dilution Factor: 1 Instrument ID..: G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**76**	**(55 - 130)**	**SW846 8015B**
Diesel Range Organics (C10-C25)	**75**	**(55 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	80	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

The surrogate recoveries for C10-C25-9.9556 ppm=79.65%

000031

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1K300329 Work Order #...: EPV941AC Matrix.....: SOLID
LCS Lot-Sample#: E1L040000-327
Prep Date.....: 12/03/01 Analysis Date..: 12/03/01
Prep Batch #...: 1338327 Analysis Time..: 12:33
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**127**	**(65 - 150)**	**SW846 8260B**
Benzene	**125**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**124**	**(70 - 135)**	**SW846 8260B**
Toluene	**90**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**92**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	81	(65 - 135)
1,2-Dichloroethane-d4	113	(60 - 140)
Toluene-d8	84	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

000032

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E1K300329 Work Order #...: EPWKK1AC Matrix.....: SOLID
LCS Lot-Sample#: E1L040000-348
Prep Date.....: 12/04/01 Analysis Date..: 12/04/01
Prep Batch #...: 1338348 Analysis Time..: 00:20
Dilution Factor: 1 Instrument ID..: G15
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**97**	**(70 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	111	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

000033

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1K300329 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1L030000-261 Prep Batch #...: 1337261					
Aluminum	95	(70 - 115)	SW846 6010B	12/03/01	EPTJW1CL
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Arsenic	98	(75 - 115)	SW846 6010B	12/03/01	EPTJW1CM
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Antimony	87	(75 - 115)	SW846 6010B	12/03/01	EPTJW1CW
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Barium	96	(80 - 120)	SW846 6010B	12/03/01	EPTJW1CN
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Cadmium	100	(80 - 120)	SW846 6010B	12/03/01	EPTJW1CT
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Chromium	106	(85 - 120)	SW846 6010B	12/03/01	EPTJW1CV
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Beryllium	109	(80 - 120)	SW846 6010B	12/03/01	EPTJW1CP
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Lead	96	(80 - 120)	SW846 6010B	12/03/01	EPTJW1CJ
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Selenium	91	(70 - 115)	SW846 6010B	12/03/01	EPTJW1CX
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Silver	93	(80 - 120)	SW846 6010B	12/03/01	EPTJW1CK
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01

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000034

BOE-C6-0181022

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1K300329 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	101	(80 - 120)	SW846 6010B	12/03/01	EPTJW1CU
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Copper	94	(80 - 120)	SW846 6010B	12/03/01	EPTJW1A8
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Molybdenum	101	(80 - 120)	SW846 6010B	12/03/01	EPTJW1CF
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Nickel	100	(80 - 120)	SW846 6010B	12/03/01	EPTJW1CH
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Thallium	98	(75 - 125)	SW846 6010B	12/03/01	EPTJW1C3
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Vanadium	103	(80 - 120)	SW846 6010B	12/03/01	EPTJW1C4
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01
Zinc	105	(80 - 120)	SW846 6010B	12/03/01	EPTJW1C5
		Dilution Factor: 1			
		Analysis Time..: 17:07	Analyst ID.....: 021088		Instrument ID..: M01

LCS Lot-Sample#: E1L030000-296 **Prep Batch #...:** 1337296

Mercury	94	(85 - 115)	SW846 7471A	12/03-12/04/01	EPTNH1AC
		Dilution Factor: 1			
		Analysis Time..: 13:36	Analyst ID.....: 000023		Instrument ID..: M04

NOTE(S):

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

000035

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1K300329 **Matrix.....:** SOLID
Date Sampled...: 11/28/01 08:30 **Date Received..:** 11/30/01 09:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1K300198-001 **Prep Batch #...:** 1337261									
Aluminum									
	726	200	1230 N	mg/kg	250		SW846 6010B	12/03/01	EPP691DK
	726	200	1100 N	mg/kg	187	11	SW846 6010B	12/03/01	EPP691DL
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Arsenic									
	8.8	200	164	mg/kg	78		SW846 6010B	12/03/01	EPP691DM
	8.8	200	165	mg/kg	78	0.70	SW846 6010B	12/03/01	EPP691DN
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Antimony									
	ND	50.0	30.4 N	mg/kg	61		SW846 6010B	12/03/01	EPP691D6
	ND	50.0	30.6 N	mg/kg	61	0.85	SW846 6010B	12/03/01	EPP691D7
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Barium									
	172	200	330 N	mg/kg	79		SW846 6010B	12/03/01	EPP691DP
	172	200	341	mg/kg	84	3.3	SW846 6010B	12/03/01	EPP691DQ
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Cadmium									
	ND	5.00	4.62	mg/kg	92		SW846 6010B	12/03/01	EPP691D0
	ND	5.00	4.60	mg/kg	92	0.45	SW846 6010B	12/03/01	EPP691D1
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Chromium									
	63.0	20.0	80.8	mg/kg	89		SW846 6010B	12/03/01	EPP691D4
	63.0	20.0	74.6 N	mg/kg	58	8.0	SW846 6010B	12/03/01	EPP691D5
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						

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000036

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1K300329 **Matrix.....:** SOLID
Date Sampled...: 11/28/01 08:30 **Date Received..:** 11/30/01 09:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	ND	5.00	4.49	mg/kg	90		SW846 6010B	12/03/01	EPP691DR
	ND	5.00	4.42	mg/kg	88	1.6	SW846 6010B	12/03/01	EPP691DT
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Lead									
	42.7	50.0	81.6 N	mg/kg	78		SW846 6010B	12/03/01	EPP691DF
	42.7	50.0	81.4 N	mg/kg	77	0.32	SW846 6010B	12/03/01	EPP691DG
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Selenium									
	1.1	200	123 N	mg/kg	61		SW846 6010B	12/03/01	EPP691D8
	1.1	200	124 N	mg/kg	61	0.51	SW846 6010B	12/03/01	EPP691D9
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Silver									
	11.6	5.00	32.8 N	mg/kg	424		SW846 6010B	12/03/01	EPP691DH
	11.6	5.00	33.4 N	mg/kg	436	1.8	SW846 6010B	12/03/01	EPP691DJ
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Cobalt									
	6.6	50.0	51.8	mg/kg	90		SW846 6010B	12/03/01	EPP691D2
	6.6	50.0	51.7	mg/kg	90	0.07	SW846 6010B	12/03/01	EPP691D3
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Copper									
	1950	25.0	2440 NC	mg/kg			SW846 6010B	12/03/01	EPP691CU
	1950	25.0	1800 NC	mg/kg			SW846 6010B	12/03/01	EPP691CV
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						

(Continued on next page)

000037

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1K300329 **Matrix.....:** SOLID
Date Sampled...: 11/28/01 08:30 **Date Received..:** 11/30/01 09:30

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	11.7	100	95.5	mg/kg	84		SW846 6010B	12/03/01	EPP691C8
	11.7	100	95.5	mg/kg	84	0.05	SW846 6010B	12/03/01	EPP691C9
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Nickel									
	480	50.0	496 NC	mg/kg			SW846 6010B	12/03/01	EPP691DD
	480	50.0	498 NC	mg/kg			SW846 6010B	12/03/01	EPP691DE
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Thallium									
	ND	200	176	mg/kg	88		SW846 6010B	12/03/01	EPP691EH
	ND	200	177	mg/kg	88	0.36	SW846 6010B	12/03/01	EPP691EJ
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Vanadium									
	67.0	50.0	111	mg/kg	87		SW846 6010B	12/03/01	EPP691EK
	67.0	50.0	117	mg/kg	100	5.6	SW846 6010B	12/03/01	EPP691EL
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						
Zinc									
	238	50.0	272 NC	mg/kg			SW846 6010B	12/03/01	EPP691EM
	238	50.0	261 NC	mg/kg			SW846 6010B	12/03/01	EPP691EN
			Dilution Factor: 1						
			Analysis Time..: 19:13		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 1337110						

MS Lot-Sample #: E1K300198-001 **Prep Batch #...:** 1337296

Mercury									
	0.052	0.167	0.0572 N	mg/kg	3.1		SW846 7471A	12/03-12/04/01	EPP691EP
	0.052	0.167	0.0467	mg/kg	0.0	200	SW846 7471A	12/03-12/04/01	EPP691EQ
			Qualifiers: N,*						
			Dilution Factor: 1						
			Analysis Time..: 13:56		Instrument ID..: M04			Analyst ID.....: 000023	
			MS Run #.....: 1337138						

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000038

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1K300329 Matrix.....: SOLID
Date Sampled...: 11/28/01 08:30 Date Received..: 11/30/01 09:30

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

000039

BOE-C6-0181027

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: E1K300329 Work Order #...: EPRDF1A2-MS Matrix.....: SOLID
MS Lot-Sample #: E1K300329-001 EPRDF1A3-MSD
Date Sampled...: 11/30/01 14:00 Date Received..: 11/30/01 16:50 MS Run #.....: 1337148
Prep Date.....: 12/03/01 Analysis Date..: 12/05/01
Prep Batch #...: 1337305 Analysis Time..: 19:21
Dilution Factor: 1 Analyst ID.....: 033077 Instrument ID..: LC7

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	ND	1330	1080	ug/kg	82		SW846 8310
	ND	1330	1040	ug/kg	78	4.1	SW846 8310
Acenaphthylene	ND	667	569	ug/kg	85		SW846 8310
	ND	667	557	ug/kg	84	2.0	SW846 8310
Anthracene	ND	26.6	22.1	ug/kg	83		SW846 8310
	ND	26.6	21.0	ug/kg	79	5.5	SW846 8310
Benzo(a)anthracene	ND	66.7	62.3	ug/kg	93		SW846 8310
	ND	66.7	56.9	ug/kg	85	9.1	SW846 8310
Benzo(a)pyrene	**ND**	**66.7**	**58.5**	**ug/kg**	**88**		**SW846 8310**
	ND	**66.7**	**53.3**	**ug/kg**	**80**	**9.3**	**SW846 8310**
Benzo(b)fluoranthene	ND	26.6	22.5	ug/kg	85		SW846 8310
	ND	26.6	20.7	ug/kg	78	8.3	SW846 8310
Benzo(ghi)perylene	ND	106	104	ug/kg	97		SW846 8310
	ND	106	94.8	ug/kg	89	8.8	SW846 8310
Benzo(k)fluoranthene	ND	26.6	24.0	ug/kg	90		SW846 8310
	ND	26.6	21.8	ug/kg	82	9.4	SW846 8310
Chrysene	ND	66.7	62.5	ug/kg	94		SW846 8310
	ND	66.7	56.9	ug/kg	85	9.4	SW846 8310
Dibenz(a,h)anthracene	ND	266	214	ug/kg	81		SW846 8310
	ND	266	194	ug/kg	73	10	SW846 8310
Fluoranthene	ND	66.7	59.5	ug/kg	89		SW846 8310
	ND	66.7	54.4	ug/kg	82	8.9	SW846 8310
Fluorene	**ND**	**133**	**111**	**ug/kg**	**84**		**SW846 8310**
	ND	**133**	**107**	**ug/kg**	**80**	**4.3**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**ND**	**66.7**	**62.7**	**ug/kg**	**94**		**SW846 8310**
	ND	**66.7**	**56.2**	**ug/kg**	**84**	**11**	**SW846 8310**
Naphthalene	**ND**	**667**	**529**	**ug/kg**	**79**		**SW846 8310**
	ND	**667**	**519**	**ug/kg**	**78**	**1.9**	**SW846 8310**
Phenanthrene	ND	53.2	46.2	ug/kg	87		SW846 8310
	ND	53.2	43.0	ug/kg	81	7.1	SW846 8310
Pyrene	**ND**	**133**	**119**	**ug/kg**	**90**		**SW846 8310**
	ND	**133**	**110**	**ug/kg**	**83**	**8.1**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	85	(41 - 115)
	81	(41 - 115)

NOTE(S):

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

Bold print denotes control parameters

000040

BOE-C6-0181028

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E1K300329	Work Order #...:	EPRDF1A4-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1K300329-001		EPRDF1A5-MSD		
Date Sampled...:	11/30/01 14:00	Date Received..:	11/30/01 16:50	MS Run #.....:	1337164
Prep Date.....:	12/03/01	Analysis Date..:	12/04/01		
Prep Batch #...:	1337324	Analysis Time..:	16:01		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	**ND**	**250**	**205**	**mg/kg**	**82**		**SW846 8015B**
	ND	**250**	**201**	**mg/kg**	**80**	**2.2**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	85	(60 - 130)
	86	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

000041

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E1K300329	Work Order #...:	EPRDF1A6-MS EPRDF1A7-MSD	Matrix.....:	SOLID
MS Lot-Sample #:	E1K300329-001				
Date Sampled...:	11/30/01 14:00	Date Received..:	11/30/01 16:50	MS Run #.....:	1338156
Prep Date.....:	12/03/01	Analysis Date..:	12/03/01		
Prep Batch #...:	1338327	Analysis Time..:	16:36		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	60.8	ug/kg	122		SW846 8260B
	ND	50.0	61.2	ug/kg	122	0.64	SW846 8260B
Benzene	ND	50.0	60.2	ug/kg	120		SW846 8260B
	ND	50.0	60.1	ug/kg	120	0.13	SW846 8260B
Trichloroethene	ND	50.0	61.9	ug/kg	124		SW846 8260B
	ND	50.0	61.2	ug/kg	122	1.1	SW846 8260B
Toluene	ND	50.0	44.0	ug/kg	88		SW846 8260B
	ND	50.0	43.7	ug/kg	87	0.61	SW846 8260B
Chlorobenzene	ND	50.0	43.7	ug/kg	87		SW846 8260B
	ND	50.0	43.2	ug/kg	86	0.96	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	78	(65 - 135)
	81	(65 - 135)
1,2-Dichloroethane-d4	107	(60 - 140)
	108	(60 - 140)
Toluene-d8	84	(70 - 130)
	84	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

000042

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...:	E1K300329	Work Order #...:	EPRDF1A8-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1K300329-001		EPRDF1A9-MSD		
Date Sampled...:	11/30/01 14:00	Date Received..:	11/30/01 16:50	MS Run #.....:	1338166
Prep Date.....:	12/04/01	Analysis Date..:	12/04/01		
Prep Batch #...:	1338348	Analysis Time..:	02:08		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G15

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**ND**	**5.00**	**5.05**	**mg/kg**	**101**		**SW846 8015B**
	ND	**5.00**	**4.82**	**mg/kg**	**96**	**4.7**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	124	(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

000043

BOE-C6-0181031

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1K300329 **Matrix.....:** SOLID
Date Sampled...: 11/28/01 08:30 **Date Received..:** 11/30/01 09:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1K300198-001 Prep Batch #...: 1337261							
Aluminum	250 N	(70 - 115)			SW846 6010B	12/03/01	EPP691DK
	187 N	(70 - 115)	11	(0-25)	SW846 6010B	12/03/01	EPP691DL
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Arsenic	78	(75 - 115)			SW846 6010B	12/03/01	EPP691DM
	78	(75 - 115)	0.70	(0-25)	SW846 6010B	12/03/01	EPP691DN
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Antimony	61 N	(75 - 115)			SW846 6010B	12/03/01	EPP691D6
	61 N	(75 - 115)	0.85	(0-25)	SW846 6010B	12/03/01	EPP691D7
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Barium	79 N	(80 - 120)			SW846 6010B	12/03/01	EPP691DP
	84	(80 - 120)	3.3	(0-25)	SW846 6010B	12/03/01	EPP691DQ
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Cadmium	92	(80 - 120)			SW846 6010B	12/03/01	EPP691D0
	92	(80 - 120)	0.45	(0-25)	SW846 6010B	12/03/01	EPP691D1
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Chromium	89	(85 - 120)			SW846 6010B	12/03/01	EPP691D4
	58 N	(85 - 120)	8.0	(0-25)	SW846 6010B	12/03/01	EPP691D5
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Beryllium	90	(80 - 120)			SW846 6010B	12/03/01	EPP691DR
	88	(80 - 120)	1.6	(0-25)	SW846 6010B	12/03/01	EPP691DT
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					

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000044

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1K300329 **Matrix.....:** SOLID
Date Sampled...: 11/28/01 08:30 **Date Received..:** 11/30/01 09:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	78 N	(80 - 120)			SW846 6010B	12/03/01	EPP691DF
	77 N	(80 - 120)	0.32	(0-25)	SW846 6010B	12/03/01	EPP691DG
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Selenium	61 N	(70 - 115)			SW846 6010B	12/03/01	EPP691D8
	61 N	(70 - 115)	0.51	(0-25)	SW846 6010B	12/03/01	EPP691D9
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Silver	424 N	(80 - 120)			SW846 6010B	12/03/01	EPP691DH
	436 N	(80 - 120)	1.8	(0-25)	SW846 6010B	12/03/01	EPP691DJ
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Cobalt	90	(80 - 120)			SW846 6010B	12/03/01	EPP691D2
	90	(80 - 120)	0.07	(0-25)	SW846 6010B	12/03/01	EPP691D3
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Copper	NC	(80 - 120)			SW846 6010B	12/03/01	EPP691CU
	NC	(80 - 120)		(0-25)	SW846 6010B	12/03/01	EPP691CV
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Molybdenum	84	(80 - 120)			SW846 6010B	12/03/01	EPP691C8
	84	(80 - 120)	0.05	(0-25)	SW846 6010B	12/03/01	EPP691C9
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Nickel	NC	(80 - 120)			SW846 6010B	12/03/01	EPP691DD
	NC	(80 - 120)		(0-25)	SW846 6010B	12/03/01	EPP691DE
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					

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000045

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1K300329 **Matrix.....:** SOLID
Date Sampled...: 11/28/01 08:30 **Date Received..:** 11/30/01 09:30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	88	(75 - 125)			SW846 6010B	12/03/01	EPP691EH
	88	(75 - 125)	0.36	(0-25)	SW846 6010B	12/03/01	EPP691EJ
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Vanadium	87	(80 - 120)			SW846 6010B	12/03/01	EPP691EK
	100	(80 - 120)	5.6	(0-25)	SW846 6010B	12/03/01	EPP691EL
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					
Zinc	NC	(80 - 120)			SW846 6010B	12/03/01	EPP691EM
	NC	(80 - 120)		(0-25)	SW846 6010B	12/03/01	EPP691EN
		Dilution Factor: 1					
		Analysis Time..: 19:13			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 1337110					

MS Lot-Sample #: E1K300198-001 **Prep Batch #...:** 1337296

Mercury	3.1 N	(80 - 120)			SW846 7471A	12/03-12/04/01	EPP691EP
	0.0 N,*	(80 - 120)	200	(0-20)	SW846 7471A	12/03-12/04/01	EPP691EQ
		Dilution Factor: 1					
		Analysis Time..: 13:56			Instrument ID..: M04	Analyst ID.....: 000023	
		MS Run #.....: 1337138					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

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MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...:	E1K300329	Work Order #...:	EPRDF1A2-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1K300329-001		EPRDF1A3-MSD		
Date Sampled...:	11/30/01 14:00	Date Received..:	11/30/01 16:50	MS Run #.....:	1337148
Prep Date.....:	12/03/01	Analysis Date..:	12/05/01		
Prep Batch #...:	1337305	Analysis Time..:	19:21		
Dilution Factor:	1	Analyst ID.....:	033077	Instrument ID..:	LC7

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	82	(50 - 150)			SW846 8310
	78	(50 - 150)	4.1	(0-50)	SW846 8310
Acenaphthylene	85	(50 - 150)			SW846 8310
	84	(50 - 150)	2.0	(0-50)	SW846 8310
Anthracene	83	(50 - 150)			SW846 8310
	79	(50 - 150)	5.5	(0-50)	SW846 8310
Benzo(a)anthracene	93	(50 - 150)			SW846 8310
	85	(50 - 150)	9.1	(0-50)	SW846 8310
Benzo(a)pyrene	**88**	**(49 - 107)**			**SW846 8310**
	80	**(49 - 107)**	**9.3**	**(0-53)**	**SW846 8310**
Benzo(b)fluoranthene	85	(50 - 150)			SW846 8310
	78	(50 - 150)	8.3	(0-50)	SW846 8310
Benzo(ghi)perylene	97	(50 - 150)			SW846 8310
	89	(50 - 150)	8.8	(0-50)	SW846 8310
Benzo(k)fluoranthene	90	(50 - 150)			SW846 8310
	82	(50 - 150)	9.4	(0-50)	SW846 8310
Chrysene	94	(50 - 150)			SW846 8310
	85	(50 - 150)	9.4	(0-50)	SW846 8310
Dibenz(a,h)anthracene	81	(50 - 150)			SW846 8310
	73	(50 - 150)	10	(0-50)	SW846 8310
Fluoranthene	89	(50 - 150)			SW846 8310
	82	(50 - 150)	8.9	(0-50)	SW846 8310
Fluorene	**84**	**(43 - 112)**			**SW846 8310**
	80	**(43 - 112)**	**4.3**	**(0-56)**	**SW846 8310**
Indeno(1,2,3-cd)pyrene	**94**	**(54 - 114)**			**SW846 8310**
	84	**(54 - 114)**	**11**	**(0-51)**	**SW846 8310**
Naphthalene	**79**	**(44 - 110)**			**SW846 8310**
	78	**(44 - 110)**	**1.9**	**(0-50)**	**SW846 8310**
Phenanthrene	87	(50 - 150)			SW846 8310
	81	(50 - 150)	7.1	(0-50)	SW846 8310
Pyrene	**90**	**(49 - 115)**			**SW846 8310**
	83	**(49 - 115)**	**8.1**	**(0-54)**	**SW846 8310**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Methylnaphthalene	85	(41 - 115)
	81	(41 - 115)

NOTE(S):

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

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E1K300329	Work Order #...:	EPRDF1A4-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1K300329-001		EPRDF1A5-MSD		
Date Sampled...:	11/30/01 14:00	Date Received..:	11/30/01 16:50	MS Run #.....:	1337164
Prep Date.....:	12/03/01	Analysis Date..:	12/04/01		
Prep Batch #...:	1337324	Analysis Time..:	16:01		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**82**	**(55 - 130)**			**SW846 8015B**
	80	**(55 - 130)**	**2.2**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	85	(60 - 130)
	86	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

000048

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1K300329	Work Order #...:	EPRDF1A6-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1K300329-001		EPRDF1A7-MSD		
Date Sampled...:	11/30/01 14:00	Date Received..:	11/30/01 16:50	MS Run #.....:	1338156
Prep Date.....:	12/03/01	Analysis Date..:	12/03/01		
Prep Batch #...:	1338327	Analysis Time..:	16:36		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**122**	**(65 - 150)**			**SW846 8260B**
	122	**(65 - 150)**	**0.64**	**(0-30)**	**SW846 8260B**
Benzene	**120**	**(70 - 130)**			**SW846 8260B**
	120	**(70 - 130)**	**0.13**	**(0-30)**	**SW846 8260B**
Trichloroethene	**124**	**(70 - 135)**			**SW846 8260B**
	122	**(70 - 135)**	**1.1**	**(0-30)**	**SW846 8260B**
Toluene	**88**	**(70 - 130)**			**SW846 8260B**
	87	**(70 - 130)**	**0.61**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**87**	**(70 - 130)**			**SW846 8260B**
	86	**(70 - 130)**	**0.96**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	78	(65 - 135)
	81	(65 - 135)
1,2-Dichloroethane-d4	107	(60 - 140)
	108	(60 - 140)
Toluene-d8	84	(70 - 130)
	84	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

000049

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E1K300329	Work Order #...:	EPRDF1A8-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1K300329-001		EPRDF1A9-MSD		
Date Sampled...:	11/30/01 14:00	Date Received..:	11/30/01 16:50	MS Run #.....:	1338166
Prep Date.....:	12/04/01	Analysis Date..:	12/04/01		
Prep Batch #...:	1338348	Analysis Time..:	02:08		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**101**	**(70 - 140)**			**SW846 8015B**
	96	**(70 - 140)**	**4.7**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	124	(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

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Appendix B

BOE-C6-0181039

APPENDIX B

SOIL SCREENING LEVEL (SSL) CALCULATIONS

Site-specific Soil screening Levels (SSLs) Assuming Impacts at Depths of 12 Feet bgs

CAS No.	Chemical	MCL (mg/L)	K_{oc} [1,2]	f_{oc} [3]	K_d [2,4]	H' [1]	O_w [3]	O_a [3]	P_b [3]	AF_T	Site-specific SSL (mg/kg) at AF_T = 1	Site-specific SSL (mg/kg) at AF_T at D=53' x DAF
107-06-2	1,2-Dichloroethane	5.00E-04	3.8E+01	5.19E-04	–	4.0E-02	2.53E-01	2.07E-01	1.44E+00	16	1.01E-04	3.31E-02
75-35-4	1,1-Dichloroethene	6.00E-03	6.5E+01	5.19E-04	–	1.1E+00	2.53E-01	2.07E-01	1.44E+00	16	2.20E-03	7.26E-01
100-41-4	Ethylbenzene	7.00E-01	2.0E+02	5.19E-04	–	3.2E-01	2.53E-01	2.07E-01	1.44E+00	16	2.28E-01	7.50E+01
108-88-3	Toluene	1.50E-01	1.4E+02	5.19E-04	–	2.7E-01	2.53E-01	2.07E-01	1.44E+00	16	4.30E-02	1.42E+01
71-55-6	1,1,1-Trichloroethane (1,1,1-TCA)	2.00E-01	1.4E+02	5.19E-04	–	7.1E-01	2.53E-01	2.07E-01	1.44E+00	16	7.01E-02	2.31E+01
79-01-6	Trichloroethylene	5.00E-03	9.4E+01	5.19E-04	–	4.2E-01	2.53E-01	2.07E-01	1.44E+00	16	1.42E-03	4.69E-01
1330-20-7	Xylene (total)	1.75E+00	2.0E+02	5.19E-04	–	3.0E-01	2.53E-01	2.07E-01	1.44E+00	16	5.64E-01	1.86E+02

Notes:

An SSL was not derived for chemicals that do not have promulgated primary MCLs. These chemicals were not included in the assessment of potential for groundwater degradation at concentrations greater than MCLs.

Initial SSL derived using EPA July 1996 Soil Screening Guidance: Technical Background Document, where SSL = MCL [(Koc * foc) + ((Ow + Oa*H')/Pb)].
AF_T calcuated from LARWQCB May 1996 Interim Site Assessment and Cleanup Guidebook which accounts for attenuation in the soil assuming site-specific soil particle distribution and distance between impacts and groundwater table of 53 feet, and default DAF for EPA SSLs of 20 as presented in EPA July 1996 Soil Screening Guidance: Technical Background Document which accounts for limited groundwater mixing.

AF_T = Average attenuation factor based on site lithology (distance to groundwater = 53 feet, 30% sand, 57% silt, and 13% clay).

na = not available
K_{oc} = soil organic carbon-water partition coefficient (L/kg)
f_{oc} = site-specific organic carbon content of soil (kg/kg)
K_d = soil-water partition coefficient (L/kg), K_{oc} x f_{oc}
H' = dimensionless Henry's law constant
O_w = site-specific average water-filled porosity (by volume)
O_a = site-specific average air-filled porosity (by volume)
P_b = dry soil bulk density (kg/L)

[1] Obtained from EPA Region 9 preliminary remediation goal (PRG) physical-chemical data for volatile organic compounds, November 2000
[2] Obtained from Risk Assessment Information System (RAIS) Toxicity & Chemical-Specific Factors Data Base, http://risk.lsd.ornl.gov/cgi-bin/tox/TOX_select?select=csf
[3] Site-specific average values
[4] Obtained from EPA Soil Screening Guidance: Technical Background Document (TBD), EPA/540/R-95/128, July 1996, http://www.epa.gov/oerpage/superfund/resources/soil/toc.htm

BOE-C6-0181041

Geotechnical Parameters for the BRC Former C-6 Facility, Los Angeles, California

Sample ID	Date Sampled	Depth (feet bgs)	Sieve Analysis (Soil Type)	Dry Bulk Density (kg/L)	Moisture Content (percent by weight)	Total Porosity (fraction by volume)	Air-filled Porosity (fraction by volume)	Water-filled Porosity (fraction by volume)	TOC* (mg/kg)	f_{oc} (fraction by weight)
EIA290176-001 (I-34-5)	1/29/2001	5	Silt	1.51	15.9	0.43	0.19	0.24	520	0.0005
EIA290176-010 (D-29-5)	1/29/2001	5	Silt	1.44	20.3	0.46	0.16	0.29	2350	0.0024
EIA29176-018 (I-25-5)	1/29/2001	5	Silt	1.34	17.8	0.49	0.26	0.24	690	0.0007
Average				**1.43**	**18.0**	**0.46**	**0.20**	**0.26**	**1187**	**0.0012**
EIA290176-004 (I-34-20)	1/29/2001	20	Silt	1.54	17.5	0.42	0.15	0.27	330	0.0003
EIA290176-012 (D-29-20)	1/29/2001	20	Silt	1.55	17.0	0.41	0.15	0.26	430	0.0004
EIA29176-021 (I-25-20)	1/29/2001	20	Silt	1.37	20.2	0.48	0.20	0.28	410	0.0004
Average				**1.49**	**18.2**	**0.44**	**0.17**	**0.27**	**390**	**0.0004**
EIA290176-007 (I-34-50)	1/29/2001	50	Fine sand	1.35	4.4	0.51	0.45	0.06	230	0.0002
EIA29176-015 (D-29-50)	1/29/2001	50	Fine sand	1.36	19.5	0.49	0.22	0.26	560	0.0006
EIA29176-024 (I-25-50)	1/29/2001	50	Silt	1.34	24.3	0.51	0.18	0.32	470	0.0005
Average				**1.35**	**16.1**	**0.50**	**0.28**	**0.22**	**420**	**0.0004**
Weighted Fraction (depths 12 to 65 feet bgs)				1.44		0.46	0.21	0.25		0.0005

The weighted fraction by weight assumes the 5-foot sample is representative of the top 20 feet, the 20-foot sample of depths between 20 and 50 feet, and the 50-foot sample of depths between 50 and 65 feet bgs.

Notes:
The air-filled porosity values were calculated from gravimetric data, not volumetric data.

* f_{oc} = the weight fraction of organic carbon in soil = TOC/1,000,000

BOE-C6-0181042

Soil Particle Size Distribution for the BRC Former C-6 Facility, Los Angeles, California

Sample ID	Date Sampled	Depth (feet bgs)	Sieve Analysis (Soil Type)	Median Grain Size (mm)	Particle Size Distribution, wt. Percent						
						Sand Size					
					Gravel	Coarse	Medium	Fine	TOTAL	Silt	Clay
EIA290176-001 (I-34-5)	1/29/2001	5	Silt	0.029	0.00	0.00	0.22	17.60	17.82	69.80	12.37
EIA290176-010 (D-29-5)	1/29/2001	5	Silt	0.027	0.00	0.00	0.02	17.00	17.02	68.41	14.58
EIA29176-018 (I-25-5)	1/29/2001	5	Silt	0.026	0.00	0.00	0.39	14.86	15.25	68.78	15.97
Average									**16.70**	**69.00**	**14.31**
EIA290176-004 (I-34-20)	1/29/2001	20	Silt	0.032	0.00	0.00	0.00	31.19	31.19	54.83	13.99
EIA290176-012 (D-29-20)	1/29/2001	20	Silt	0.036	0.00	0.00	0.90	27.59	28.49	59.67	11.85
EIA29176-021 (I-25-20)	1/29/2001	20	Silt	0.020	0.00	0.00	0.00	11.21	11.21	69.07	19.72
Average									**23.63**	**61.19**	**15.19**
EIA290176-007 (I-34-50)	1/29/2001	50	Fine sand	0.151	0.00	0.00	0.57	79.33	79.90	17.39	2.71
EIA29176-015 (D-29-50)	1/29/2001	50	Fine sand	0.083	0.00	0.00	3.26	47.93	51.19	39.79	9.01
EIA29176-024 (I-25-50)	1/29/2001	50	Silt	0.027	0.00	0.00	0.04	21.27	21.31	64.99	13.70
Average									**50.80**	**40.72**	**8.47**

Weighted Fraction (depths 12 to 65 feet bgs)	0.30	0.57	0.13

The weighted fraction by weight assumes the 5-foot sample is representative of the top 20 feet, the 20-foot sample of depths between 20 and 50 feet, and the 50-foot sample of depths between 50 and 65 feet bgs.

BOE-C6-0181043