SEVERN TRENT SERVICES

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

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

May 11, 2001

STL LOT NUMBER: E1E020280
PO/CONTRACT: PO/CONTRACT: 05160-SEV002-00-S56

Bob Logan
Kennedy/Jenks Consultants
2151 Michelson Drive
Suite 10
Irvine, CA 92612

Dear Mr. Logan,

This report contains the analytical results for the 17 samples received under chain of custody by STL Los Angeles on May 2, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures meet method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading beyond 2 to 6 degrees Celsius is considered not within acceptable criteria unless otherwise noted such as limited transit time from field and test requested. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the test results provided in this report meet all the requirements of NELAC certification number 01118CA. 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.

Sincerely,

Diane Suzuki
Project Manager

cc: Project File

This report contains 000109 pages.

[redacted]

Chain of Custody Record

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

STL-4124 (0700)

Client	Project Manager	Date	Chain of Custody Number
Kennedy / Jenks	Rus Purcell	5-2-01	051853
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
2151 Michelson Dr. Suite 100	949-261-1577		

City	State	Zip Code	Site Contact	Lab Contact
Irvine	CA.	92612	Shane Scrimshire	

Project Name and Location (State)	Carrier/Waybill Number
Boeing Parcel C	

Contract/Purchase Order/Quote No.: 004034.00

Analysis (Attach list if more space is needed): 8015m, 8270C, 8310, 8082, 8000/7000 Series, 8260B

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		8015m	8270C	8310	8082	8000/7000 Series	8260B	Special Instructions/ Conditions of Receipt
Build-2-X-11-043001-2	4/30/01	1330				X		X							X						
Build-2-U-9-050101-2	5/1/01	0650				X		X										X			
Build-2-O-9-050101-2		0830				X		X							X						
Build-2-T-20-050101-2		0945				X		X							X				X	X	
Build-2-T-18-050101-2		1020				X		X							X				X	X	
Build-2-Y-20-050101-2		1120				X		X												X	
Build-2-Z-20-050101-2		1200				X		X												X	
Build-1-M-14-050101-3		1545				X		X							X						24 hr. turn
Build-1-M-14-050201-4	5/2/01	0830				X		X							X						
Build-1-M-14-050201-5		0850				X		X							X						
Build-1-M-12-050201-3		1120				X		X							X						
Build-1-M-12-050201-4		1130				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: 5 day ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	5-2-01	1413	1. Received By	5-2-01	1413
2. Relinquished By	5-2-01	1535	2. Received By	05/02/01	1535
3. Relinquished By			3. Received By		

Comments

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

000002

BOE-C6-0122126

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client	Project Manager	Date	Chain of Custody Number
Kennedy/Jenks	Rus Purcell	5-2-01	051855
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2151 Michelson Dr. Suite 100	949-261-1577		

City	State	Zip Code	Site Contact	Lab Contact
Irvine	CA.	92612	Shane Scrimshire	

Project Name and Location (State)	Carrier/Waybill Number
Boeing Parcel C	

Contract/Purchase Order/Quote No.: 004034.00

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: 8015m	8260	7199									Special Instructions/ Conditions of Receipt
Build-1-M-12-050201-5	5/2/01	1150				X		X							X											24 hr. turn
BL-2-050201-	↓	0730		X							X					X	X									
Build-1-M-10-050201-3		1355				X		X							X											24hr. turn
Build-1-M-10-050201-4		1405				X		X							X											↓
Build-1-M-10-050201-5	↓	1410				X		X							X											

000003

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: 5 day turn

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	5-2-01	1413	1. Received By	5-2-01	1413
2. Relinquished By	5-2-01	1535	2. Received By	05/02/01	1535
3. Relinquished By			3. Received By		

Comments

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

BOE-C6-0122127

STL – LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 05/02/01

Quantims Lot #: ETE 020280
Client Name: Kennedy Jenk
Received by: AB
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☐Ultra-Ex ☐Rey B. ☐UPS ☐DES ☒Other Courier

Quote #:
Project: C-6
Date/Time Received: 05/02/01 @ 1535

Initial / Date

Custody Seal Status: ☒Intact ☐Broken ☐None ..... AB 05/02/01
Custody Seal #(s): ☐No Seal # .....
Sample Container(s): ☐STL-LA ☒Client ☐N/A .....
Temperature(s) (COOLER/BLANK) in °C: 6°C (CORRECTED TEMP) .....
Thermometer Used : ☒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) :

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

Fraction	1-13	14	15-17								PH
VOAh /*		3									N/A
500ml PB		1									
Sleeve	1		1								

h:HCl na:Sodium Hydroxide zna: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

* Number of VOA's w/ Headspace present

LOGGED BY/DATE: AB 05/02/01 REVIEWED BY/DATE: T Swart 5-2-01

000004

BOE-C6-0122128

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_14_050101_3

GC Semivolatiles

Lot-Sample #...:	E1E020280-008	**Work Order #...:**	ECPN71AA	**Matrix.....:**	SOLID
Date Sampled...:	05/01/01 15:45	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1123066
Prep Date.....:	05/02/01	**Analysis Date..:**	05/04/01		
Prep Batch #...:	1123197	**Analysis Time..:**	11:34		
Dilution Factor:	10				
Analyst ID.....:	356074	**Instrument ID..:**	G02		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	100	mg/kg	50
C10-C11	**60 J**	**100**	**mg/kg**	**50**
C12-C13	**210**	**100**	**mg/kg**	**50**
C14-C15	**600**	**100**	**mg/kg**	**50**
C16-C17	**520**	**100**	**mg/kg**	**50**
C18-C19	**470**	**100**	**mg/kg**	**50**
C20-C23	**500**	**100**	**mg/kg**	**50**
C24-C27	**290**	**100**	**mg/kg**	**50**
C28-C31	**90 J**	**100**	**mg/kg**	**50**
C32-C35	**52 J**	**100**	**mg/kg**	**50**
C36-C39	ND	100	mg/kg	50
C40+	ND	100	mg/kg	50
Total Carbon Chain Range	**2800**	**100**	**mg/kg**	**50**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	115	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_14_050101_3

GC Volatiles

Lot-Sample #...:	E1E020280-008	**Work Order #...:**	ECPN71AC	**Matrix.....:**	SOLID
Date Sampled...:	05/01/01 15:45	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1121226
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123397	**Analysis Time..:**	11:55		
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)	87	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_14_050201_4

GC Semivolatiles

Lot-Sample #...: E1E020280-009 **Work Order #...:** ECPN91AA **Matrix.....:** SOLID
Date Sampled...: 05/02/01 08:30 **Date Received..:** 05/02/01 15:35 **MS Run #.....:** 1123066
Prep Date.....: 05/02/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1123197 **Analysis Time..:** 12:10
Dilution Factor: 1
Analyst ID.....: 356074 **Instrument ID..:** G03
Method.....: SW846 8015B

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

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

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_14_050201_4

GC Volatiles

Lot-Sample #...:	E1E020280-009	**Work Order #...:**	ECPN91AC	**Matrix.....:**	SOLID
Date Sampled...:	05/02/01 08:30	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1121226
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123397	**Analysis Time..:**	12:22		
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)	96	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_14_050201_5

GC Semivolatiles

Lot-Sample #...: E1E020280-010 **Work Order #...:** ECPPA1AA **Matrix.....:** SOLID
Date Sampled...: 05/02/01 08:50 **Date Received..:** 05/02/01 15:35 **MS Run #.....:** 1123066
Prep Date.....: 05/02/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1123197 **Analysis Time..:** 11:31
Dilution Factor: 1
Analyst ID.....: 356074 **Instrument ID..:** G03
Method.....: SW846 8015B

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	72	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_14_050201_5

GC Volatiles

Lot-Sample #...:	E1E020280-010	**Work Order #...:**	ECPPA1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/02/01 08:50	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1121226
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123397	**Analysis Time..:**	12:48		
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)	84	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_12_050201_3

GC Semivolatiles

Lot-Sample #...: E1E020280-011 **Work Order #...:** ECPPC1AA **Matrix.....:** SOLID
Date Sampled...: 05/02/01 11:20 **Date Received..:** 05/02/01 15:35 **MS Run #.....:** 1123066
Prep Date.....: 05/02/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1123197 **Analysis Time..:** 10:16
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+	**11**	**10**	**mg/kg**	**5.0**
Total Carbon Chain Range	**23**	**10**	**mg/kg**	**5.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	78	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_12_050201_3

GC Volatiles

Lot-Sample #...:	E1E020280-011	**Work Order #...:**	ECPPC1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/02/01 11:20	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1121226
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123397	**Analysis Time..:**	13:15		
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)	89	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_12_050201_4

GC Semivolatiles

Lot-Sample #...: E1E020280-012 **Work Order #...:** ECPPE1AA **Matrix.....:** SOLID
Date Sampled...: 05/02/01 11:30 **Date Received..:** 05/02/01 15:35 **MS Run #.....:** 1123066
Prep Date.....: 05/02/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1123197 **Analysis Time..:** 12:49
Dilution Factor: 1
Analyst ID.....: 356074 **Instrument ID..:** G03
Method.....: SW846 8015B

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	96	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_12_050201_4

GC Volatiles

Lot-Sample #...:	E1E020280-012	**Work Order #...:**	ECPPE1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/02/01 11:30	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1121226
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123397	**Analysis Time..:**	13:42		
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)	89	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_12_050201_5

GC Semivolatiles

Lot-Sample #...: E1E020280-013 **Work Order #...:** ECPPF1AA **Matrix.....:** SOLID
Date Sampled...: 05/02/01 11:50 **Date Received..:** 05/02/01 15:35 **MS Run #.....:** 1123066
Prep Date.....: 05/02/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1123197 **Analysis Time..:** 14:07
Dilution Factor: 1
Analyst ID.....: 356074 **Instrument ID..:** G03
Method.....: SW846 8015B

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	93	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_12_050201_5

GC Volatiles

Lot-Sample #...:	E1E020280-013	**Work Order #...:**	ECPPF1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/02/01 11:50	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1123202
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123398	**Analysis Time..:**	11:22		
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)	80	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_10_050201_3

GC Semivolatiles

Lot-Sample #...: E1E020280-015 **Work Order #...:** ECPPJ1AA **Matrix.....:** SOLID
Date Sampled...: 05/02/01 13:55 **Date Received..:** 05/02/01 15:35 **MS Run #.....:** 1123066
Prep Date.....: 05/02/01 **Analysis Date..:** 05/03/01
Prep Batch #...: 1123197 **Analysis Time..:** 13:45
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	87	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_10_050201_3

GC Volatiles

Lot-Sample #...:	E1E020280-015	**Work Order #...:**	ECPPJ1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/02/01 13:55	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1123202
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123398	**Analysis Time..:**	11:56		
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)	85	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_10_050201_4

GC Semivolatiles

Lot-Sample #...: E1E020280-016 **Work Order #...:** ECPPN1AA **Matrix.....:** SOLID
Date Sampled...: 05/02/01 14:05 **Date Received..:** 05/02/01 15:35 **MS Run #.....:** 1123066
Prep Date.....: 05/02/01 **Analysis Date..:** 05/03/01
Prep Batch #...: 1123197 **Analysis Time..:** 14:25
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	89	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_10_050201_4

GC Volatiles

Lot-Sample #...:	E1E020280-016	**Work Order #...:**	ECPPN1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/02/01 14:05	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1123202
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123398	**Analysis Time..:**	12:25		
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)	83	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_10_050201_5

GC Semivolatiles

Lot-Sample #...: E1E020280-017 **Work Order #...:** ECPPR1AA **Matrix.....:** SOLID
Date Sampled...: 05/02/01 14:10 **Date Received..:** 05/02/01 15:35 **MS Run #.....:** 1123066
Prep Date.....: 05/02/01 **Analysis Date..:** 05/03/01
Prep Batch #...: 1123197 **Analysis Time..:** 15:04
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	80	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_10_050201_5

GC Volatiles

Lot-Sample #...:	E1E020280-017	**Work Order #...:**	ECPPR1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/02/01 14:10	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1123202
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123398	**Analysis Time..:**	12:53		
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)	83	(60 - 130)

QC DATA ASSOCIATION SUMMARY

E1E020280

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202
002	SOLID	SW846 8082		1123195	1123129
003	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
004	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202
	SOLID	SW846 7471A		1123280	1123128
	SOLID	SW846 8260B		1130350	1130155
	SOLID	SW846 6010B		1123277	1123126
005	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202
	SOLID	SW846 7471A		1123280	1123128
	SOLID	SW846 8260B		1130287	1130112
	SOLID	SW846 6010B		1123277	1123126
006	SOLID	SW846 8260B		1130287	1130112
007	SOLID	SW846 8260B		1128469	1128260
008	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
009	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
010	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
011	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
012	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
013	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202

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QC DATA ASSOCIATION SUMMARY

E1E020280

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
014	WATER	SW846 8260B		1124415	1124160
015	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202
016	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202
017	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1E020280
MB Lot-Sample #: E1E030000-197

Analysis Date..: 05/03/01
Dilution Factor: 1

Work Order #...: ECQCT1AA

Prep Date.....: 05/02/01
Prep Batch #...: 1123197

Analyst ID.....: 356074

Matrix.....: SOLID

Analysis Time..: 14:18
Instrument ID..: G03

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	82	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1E020280
MB Lot-Sample #: E1E030000-195

Analysis Date..: 05/03/01
Dilution Factor: 1

Work Order #...: ECQ2M1AA

Prep Date.....: 05/03/01
Prep Batch #...: 1123195

Analyst ID.....: 018568

Matrix.....: SOLID

Analysis Time..: 12:21
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	113	(60 - 140)
Tetrachloro-m-xylene	76	(60 - 140)

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1E020280
MB Lot-Sample #: E1E030000-398

Analysis Date..: 05/02/01
Dilution Factor: 1

Work Order #...: ECRP71AA

Prep Date.....: 05/02/01
Prep Batch #...: 1123398

Analyst ID.....: 001464

Matrix.....: SOLID

Analysis Time..: 13:04
Instrument ID..: G16

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	82	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1E020280
MB Lot-Sample #: E1E030000-397

Analysis Date..: 05/03/01
Dilution Factor: 1

Work Order #...: ECRQM1AA

Prep Date.....: 05/03/01
Prep Batch #...: 1123397

Analyst ID.....: 001464

Matrix.....: SOLID

Analysis Time..: 11:20
Instrument ID..: G15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C6-C8	**0.13 J**	**1.0**	**mg/kg**	**SW846 8015B**

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

GC/MS Volatiles

Client Lot #...: E1E020280
MB Lot-Sample #: E1E040000-415

Analysis Date..: 05/03/01
Dilution Factor: 1

Work Order #...: ECWAG1AA

Prep Date.....: 05/03/01
Prep Batch #...: 1124415

Analyst ID.....: 015590

Matrix.....: WATER

Analysis Time..: 20:59
Instrument ID..: MSH

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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** ECWAG1AA **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 120)
1,2-Dichloroethane-d4	115	(65 - 130)
Toluene-d8	94	(80 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E020280
MB Lot-Sample #: E1E080000-469

Analysis Date..: 05/07/01
Dilution Factor: 1

Work Order #...: EC2M81AA

Prep Date.....: 05/07/01
Prep Batch #...: 1128469

Analyst ID.....: 015590

Matrix.....: SOLID

Analysis Time..: 21:14
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
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	50	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
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** EC2M81AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dibromoethane	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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(70 - 130)
1,2-Dichloroethane-d4	95	(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/MS Volatiles

Client Lot #...: E1E020280
MB Lot-Sample #: E1E100000-287

Analysis Date..: 05/09/01
Dilution Factor: 1

Work Order #...: EC5MT1AA

Prep Date.....: 05/09/01
Prep Batch #...: 1130287

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 09:04
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
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	50	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
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** EC5MT1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dibromoethane	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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(70 - 130)
1,2-Dichloroethane-d4	95	(60 - 140)
Toluene-d8	102	(70 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E020280
MB Lot-Sample #: E1E100000-350

Analysis Date..: 05/09/01
Dilution Factor: 1

Work Order #...: EC53K1AA

Prep Date.....: 05/09/01
Prep Batch #...: 1130350

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 22:34
Instrument ID..: MSG

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
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	**130 J**	**250**	**ug/kg**	**SW846 8260B**
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
Acrylonitrile	ND	2500	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
Dibromochloromethane	ND	250	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** EC53K1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dibromoethane	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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(60 - 140)
1,2-Dichloroethane-d4	93	(60 - 140)
Toluene-d8	97	(60 - 140)

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 #...: E1E020280 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E1E030000-277 **Prep Batch #...:** 1123277						
Aluminum	ND	20.0	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AA
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Antimony	**0.37 B**	**6.0**	**mg/kg**	**SW846 6010B**	**05/03-05/04/01**	**ECQ051AC**
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AD
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AE
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AF
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AG
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Chromium	**0.35 B**	**1.0**	**mg/kg**	**SW846 6010B**	**05/03-05/04/01**	**ECQ051AU**
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AH
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Copper	ND	2.5	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AJ
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AK
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AL
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E1E020280 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	ND	4.0	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AM
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AN
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AP
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AQ
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AR
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	05/03-05/04/01	ECQ051AT
		Dilution Factor: 1				
		Analysis Time..: 12:06		Analyst ID.....: 003119	Instrument ID..: M01	

MB Lot-Sample #: E1E030000-280 **Prep Batch #...:** 1123280

Mercury	ND	0.10	mg/kg	SW846 7471A	05/03-05/04/01	ECQ2D1AA
		Dilution Factor: 1				
		Analysis Time..: 10:39		Analyst ID.....: 021088	Instrument ID..: M04	

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1E020280 **Work Order #...:** ECQCT1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E030000-197
Prep Date.....: 05/02/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1123197 **Analysis Time..:** 10:13
Dilution Factor: 1 **Instrument ID..:** G03
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**238**	**mg/kg**	**95**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	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

GC Semivolatiles

Client Lot #...: E1E020280 **Work Order #...:** ECQ2M1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E030000-195
Prep Date.....: 05/03/01 **Analysis Date..:** 05/03/01
Prep Batch #...: 1123195 **Analysis Time..:** 13:01
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**333**	**357**	**ug/kg**	**107**	**SW846 8082**
Aroclor 1260	**333**	**343**	**ug/kg**	**103**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	115	(60 - 140)
Tetrachloro-m-xylene	90	(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 #...: E1E020280 **Work Order #...:** ECRP71AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E030000-398
Prep Date.....: 05/02/01 **Analysis Date..:** 05/02/01
Prep Batch #...: 1123398 **Analysis Time..:** 12:35
Dilution Factor: 1 **Instrument ID..:** G16
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**5.70**	**mg/kg**	**114**	**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 Volatiles

Client Lot #...: E1E020280 **Work Order #...:** ECRQM1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E030000-397
Prep Date.....: 05/03/01 **Analysis Date..:** 05/03/01
Prep Batch #...: 1123397 **Analysis Time..:** 10:54
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**5.21**	**mg/kg**	**104**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	124	(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 #...: E1E020280 **Work Order #...:** ECWAG1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1E040000-415
Prep Date.....: 05/04/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1124415 **Analysis Time..:** 21:28
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.98**	**ug/L**	**100**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**12.4**	**ug/L**	**124**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.43**	**ug/L**	**94**	**SW846 8260B**
Toluene	**10.0**	**9.43**	**ug/L**	**94**	**SW846 8260B**
Trichloroethene	**10.0**	**10.7**	**ug/L**	**107**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	117	(65 - 130)
Toluene-d8	98	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** EC2M81AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E080000-469
Prep Date.....: 05/07/01 **Analysis Date..:** 05/07/01
Prep Batch #...: 1128469 **Analysis Time..:** 20:44
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**54.9**	**ug/kg**	**110**	**SW846 8260B**
Benzene	**50.0**	**52.5**	**ug/kg**	**105**	**SW846 8260B**
Trichloroethene	**50.0**	**51.8**	**ug/kg**	**104**	**SW846 8260B**
Toluene	**50.0**	**50.7**	**ug/kg**	**101**	**SW846 8260B**
Chlorobenzene	**50.0**	**49.8**	**ug/kg**	**100**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(70 - 130)
1,2-Dichloroethane-d4	99	(60 - 140)
Toluene-d8	100	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** EC5MT1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E100000-287
Prep Date.....: 05/09/01 **Analysis Date..:** 05/09/01
Prep Batch #...: 1130287 **Analysis Time..:** 08:34
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**50.0**	**55.1**	**ug/kg**	**110**	**SW846 8260B**
Benzene	**50.0**	**54.3**	**ug/kg**	**109**	**SW846 8260B**
Trichloroethene	**50.0**	**54.1**	**ug/kg**	**108**	**SW846 8260B**
Toluene	**50.0**	**53.9**	**ug/kg**	**108**	**SW846 8260B**
Chlorobenzene	**50.0**	**52.6**	**ug/kg**	**105**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(70 - 130)
1,2-Dichloroethane-d4	98	(60 - 140)
Toluene-d8	106	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** EC53K1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E100000-350
Prep Date.....: 05/09/01 **Analysis Date..:** 05/09/01
Prep Batch #...: 1130350 **Analysis Time..:** 21:29
Dilution Factor: 1 **Instrument ID..:** MSG
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**2500**	**2340**	**ug/kg**	**94**	**SW846 8260B**
Benzene	**2500**	**2360**	**ug/kg**	**94**	**SW846 8260B**
Trichloroethene	**2500**	**2350**	**ug/kg**	**94**	**SW846 8260B**
Toluene	**2500**	**2280**	**ug/kg**	**91**	**SW846 8260B**
Chlorobenzene	**2500**	**2260**	**ug/kg**	**91**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(60 - 140)
1,2-Dichloroethane-d4	102	(60 - 140)
Toluene-d8	105	(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 #...: E1E020280 **Matrix.....:** SOLID

LCS Lot-Sample#: E1E030000-277 **Prep Batch #...:** 1123277

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	200	189	mg/kg	94	SW846 6010B	05/03-05/04/01	ECQ051AV
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Antimony	50.0	48.1	mg/kg	96	SW846 6010B	05/03-05/04/01	ECQ051AW
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Arsenic	200	190	mg/kg	95	SW846 6010B	05/03-05/04/01	ECQ051AX
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Barium	200	197	mg/kg	98	SW846 6010B	05/03-05/04/01	ECQ051A0
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Beryllium	5.00	5.05	mg/kg	101	SW846 6010B	05/03-05/04/01	ECQ051A1
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Cadmium	5.00	5.05	mg/kg	101	SW846 6010B	05/03-05/04/01	ECQ051A2
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Cobalt	50.0	51.4	mg/kg	103	SW846 6010B	05/03-05/04/01	ECQ051A3
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Copper	25.0	24.8	mg/kg	99	SW846 6010B	05/03-05/04/01	ECQ051A4
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Lead	50.0	48.9	mg/kg	98	SW846 6010B	05/03-05/04/01	ECQ051A5
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Molybdenum	100	98.9	mg/kg	99	SW846 6010B	05/03-05/04/01	ECQ051A6
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1E020280 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	50.0	49.9	mg/kg	100	SW846 6010B	05/03-05/04/01	ECQ051A7
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Selenium	200	183	mg/kg	91	SW846 6010B	05/03-05/04/01	ECQ051A8
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Silver	5.00	4.93	mg/kg	99	SW846 6010B	05/03-05/04/01	ECQ051A9
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Thallium	200	203	mg/kg	101	SW846 6010B	05/03-05/04/01	ECQ051CA
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Vanadium	50.0	49.4	mg/kg	99	SW846 6010B	05/03-05/04/01	ECQ051CC
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Zinc	50.0	50.4	mg/kg	101	SW846 6010B	05/03-05/04/01	ECQ051CD
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	
Chromium	20.0	20.6	mg/kg	103	SW846 6010B	05/03-05/04/01	ECQ051CE
			Dilution Factor: 1				
			Analysis Time..: 12:12		Analyst ID.....: 003119	Instrument ID..: M01	

LCS Lot-Sample#: E1E030000-280 **Prep Batch #...:** 1123280

Mercury	0.833	0.802	mg/kg	96	SW846 7471A	05/03-05/04/01	ECQ2D1AC
			Dilution Factor: 1				
			Analysis Time..: 10:41		Analyst ID.....: 021088	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 #...: E1E020280 **Work Order #...:** ECQCT1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E030000-197
Prep Date.....: 05/02/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1123197 **Analysis Time..:** 10:13
Dilution Factor: 1 **Instrument ID..:** G03
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**95**	**(60 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	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

GC Semivolatiles

Client Lot #...: E1E020280 **Work Order #...:** ECQ2M1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E030000-195
Prep Date.....: 05/03/01 **Analysis Date..:** 05/03/01
Prep Batch #...: 1123195 **Analysis Time..:** 13:01
Dilution Factor: 1 **Instrument ID..:** G8B
Analyst ID.....: 018568

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**107**	**(65 - 130)**	**SW846 8082**
Aroclor 1260	**103**	**(70 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	115	(60 - 140)
Tetrachloro-m-xylene	90	(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 #...: E1E020280 **Work Order #...:** ECRP71AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E030000-398
Prep Date.....: 05/02/01 **Analysis Date..:** 05/02/01
Prep Batch #...: 1123398 **Analysis Time..:** 12:35
Dilution Factor: 1 **Instrument ID..:** G16
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**114**	**(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 Volatiles

Client Lot #...: E1E020280 **Work Order #...:** ECRQM1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E030000-397
Prep Date.....: 05/03/01 **Analysis Date..:** 05/03/01
Prep Batch #...: 1123397 **Analysis Time..:** 10:54
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**104**	**(80 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	124	(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 #...: E1E020280 **Work Order #...:** ECWAG1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1E040000-415
Prep Date.....: 05/04/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1124415 **Analysis Time..:** 21:28
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**100**	**(75 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**124**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**94**	**(80 - 120)**	**SW846 8260B**
Toluene	**94**	**(80 - 120)**	**SW846 8260B**
Trichloroethene	**107**	**(75 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	117	(65 - 130)
Toluene-d8	98	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** EC2M81AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E080000-469
Prep Date.....: 05/07/01 **Analysis Date..:** 05/07/01
Prep Batch #...: 1128469 **Analysis Time..:** 20:44
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**110**	**(60 - 150)**	**SW846 8260B**
Benzene	**105**	**(70 - 140)**	**SW846 8260B**
Trichloroethene	**104**	**(70 - 130)**	**SW846 8260B**
Toluene	**101**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**100**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(70 - 130)
1,2-Dichloroethane-d4	99	(60 - 140)
Toluene-d8	100	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** EC5MT1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E100000-287
Prep Date.....: 05/09/01 **Analysis Date..:** 05/09/01
Prep Batch #...: 1130287 **Analysis Time..:** 08:34
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**110**	**(60 - 150)**	**SW846 8260B**
Benzene	**109**	**(70 - 140)**	**SW846 8260B**
Trichloroethene	**108**	**(70 - 130)**	**SW846 8260B**
Toluene	**108**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**105**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(70 - 130)
1,2-Dichloroethane-d4	98	(60 - 140)
Toluene-d8	106	(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/MS Semivolatiles

Client Lot #...: E1E070226 **Work Order #...:** EC03M1C7-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1E070220-001 EC03M1C8-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	80	(50 - 140)
	78	(50 - 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.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** EC53K1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E100000-350
Prep Date.....: 05/09/01 **Analysis Date..:** 05/09/01
Prep Batch #...: 1130350 **Analysis Time..:** 21:29
Dilution Factor: 1 **Instrument ID..:** MSG
Analyst ID.....: 999998

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(60 - 140)
1,2-Dichloroethane-d4	102	(60 - 140)
Toluene-d8	105	(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 #...: E1E020280 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E1E030000-277 **Prep Batch #...:** 1123277					
Aluminum	94	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051AV
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Antimony	96	(75 - 115)	SW846 6010B	05/03-05/04/01	ECQ051AW
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Arsenic	95	(75 - 115)	SW846 6010B	05/03-05/04/01	ECQ051AX
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Barium	98	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051A0
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Beryllium	101	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051A1
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Cadmium	101	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051A2
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Cobalt	103	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051A3
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Copper	99	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051A4
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Lead	98	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051A5
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Molybdenum	99	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051A6
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1E020280 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel	100	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051A7
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Selenium	91	(70 - 115)	SW846 6010B	05/03-05/04/01	ECQ051A8
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Silver	99	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051A9
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Thallium	101	(75 - 120)	SW846 6010B	05/03-05/04/01	ECQ051CA
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Vanadium	99	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051CC
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Zinc	101	(80 - 120)	SW846 6010B	05/03-05/04/01	ECQ051CD
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	
Chromium	103	(85 - 120)	SW846 6010B	05/03-05/04/01	ECQ051CE
		Dilution Factor: 1			
		Analysis Time..: 12:12	Analyst ID.....: 003119	Instrument ID..: M01	

LCS Lot-Sample#: E1E030000-280 **Prep Batch #...:** 1123280

Mercury	96	(85 - 115)	SW846 7471A	05/03-05/04/01	ECQ2D1AC
		Dilution Factor: 1			
		Analysis Time..: 10:41	Analyst ID.....: 021088	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 #...:	E1E020280	**Work Order #...:**	ECHVQ1AD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1D270288-001		ECHVQ1AE-MSD		
Date Sampled...:	04/26/01 09:20	**Date Received..:**	04/27/01 10:00	**MS Run #.....:**	1121226
Prep Date.....:	04/30/01	**Analysis Date..:**	04/30/01		
Prep Batch #...:	1121487	**Analysis Time..:**	17:42		
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**	**5.06**	**mg/kg**	**101**		**WA-DOE WTPH-G**
	ND	**5.00**	**5.52**	**mg/kg**	**110**	**8.7**	**WA-DOE WTPH-G**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	111	(60 - 130)
	113	(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 Volatiles

Client Lot #...:	E1E020280	**Work Order #...:**	ECK9N1AG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1D300206-018		ECK9N1AH-MSD		
Date Sampled...:	04/30/01 13:50	**Date Received..:**	04/30/01 16:40	**MS Run #.....:**	1123202
Prep Date.....:	05/02/01	**Analysis Date..:**	05/02/01		
Prep Batch #...:	1123398	**Analysis Time..:**	15:15		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G16

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**ND**	**5.00**	**5.40**	**mg/kg**	**108**		**SW846 8015B**
	ND	**5.00**	**5.51**	**mg/kg**	**110**	**1.9**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	113	(60 - 130)
	115	(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

TOTAL Metals

Client Lot #...: E1E020280 **Matrix.....:** SOLID
Date Sampled...: 05/01/01 10:40 **Date Received..:** 05/01/01 16:55

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1E010247-004 **Prep Batch #...:** 1123277										
Aluminum										
	19400	200	20400	NC	mg/kg			SW846 6010B	05/03-05/04/01	ECMW81A1
	19400	200	20700	NC	mg/kg			SW846 6010B	05/03-05/04/01	ECMW81A2
			Dilution Factor: 1							
			Analysis Time..: 12:37			Instrument ID..: M01			Analyst ID.....: 003119	
			MS Run #.....: 1123126							
Antimony										
	0.61	50.0	9.20	N	mg/kg	17		SW846 6010B	05/03-05/04/01	ECMW81A3
	0.61	50.0	9.16	N	mg/kg	17	0.49	SW846 6010B	05/03-05/04/01	ECMW81A4
			Dilution Factor: 1							
			Analysis Time..: 12:37			Instrument ID..: M01			Analyst ID.....: 003119	
			MS Run #.....: 1123126							
Arsenic										
	8.5	200	175		mg/kg	83		SW846 6010B	05/03-05/04/01	ECMW81A5
	8.5	200	178		mg/kg	85	1.9	SW846 6010B	05/03-05/04/01	ECMW81A6
			Dilution Factor: 1							
			Analysis Time..: 12:37			Instrument ID..: M01			Analyst ID.....: 003119	
			MS Run #.....: 1123126							
Barium										
	170	200	343		mg/kg	86		SW846 6010B	05/03-05/04/01	ECMW81A7
	170	200	342		mg/kg	86	0.18	SW846 6010B	05/03-05/04/01	ECMW81A8
			Dilution Factor: 1							
			Analysis Time..: 12:37			Instrument ID..: M01			Analyst ID.....: 003119	
			MS Run #.....: 1123126							
Beryllium										
	0.71	5.00	5.16		mg/kg	89		SW846 6010B	05/03-05/04/01	ECMW81A9
	0.71	5.00	5.21		mg/kg	90	0.96	SW846 6010B	05/03-05/04/01	ECMW81CA
			Dilution Factor: 1							
			Analysis Time..: 12:37			Instrument ID..: M01			Analyst ID.....: 003119	
			MS Run #.....: 1123126							
Cadmium										
	0.34	5.00	4.80		mg/kg	89		SW846 6010B	05/03-05/04/01	ECMW81CC
	0.34	5.00	4.88		mg/kg	91	1.7	SW846 6010B	05/03-05/04/01	ECMW81CD
			Dilution Factor: 1							
			Analysis Time..: 12:37			Instrument ID..: M01			Analyst ID.....: 003119	
			MS Run #.....: 1123126							

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1E020280 **Matrix.....:** SOLID
Date Sampled...: 05/01/01 10:40 **Date Received..:** 05/01/01 16:55

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	33.7	20.0	52.8	mg/kg	96		SW846 6010B	05/03-05/04/01	ECMW81C3
	33.7	20.0	51.5	mg/kg	89	2.6	SW846 6010B	05/03-05/04/01	ECMW81C4
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					
Cobalt									
	11.1	50.0	55.7	mg/kg	89		SW846 6010B	05/03-05/04/01	ECMW81CE
	11.1	50.0	56.8	mg/kg	92	2.0	SW846 6010B	05/03-05/04/01	ECMW81CF
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					
Copper									
	38.8	25.0	61.4	mg/kg	90		SW846 6010B	05/03-05/04/01	ECMW81CG
	38.8	25.0	62.1	mg/kg	93	1.3	SW846 6010B	05/03-05/04/01	ECMW81CH
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					
Lead									
	7.4	50.0	50.5	mg/kg	86		SW846 6010B	05/03-05/04/01	ECMW81CJ
	7.4	50.0	50.6	mg/kg	86	0.22	SW846 6010B	05/03-05/04/01	ECMW81CK
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					
Molybdenum									
	0.93	100	83.1	mg/kg	82		SW846 6010B	05/03-05/04/01	ECMW81CL
	0.93	100	84.3	mg/kg	83	1.4	SW846 6010B	05/03-05/04/01	ECMW81CM
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					
Nickel									
	27.8	50.0	71.9	mg/kg	88		SW846 6010B	05/03-05/04/01	ECMW81CN
	27.8	50.0	71.3	mg/kg	87	0.76	SW846 6010B	05/03-05/04/01	ECMW81CP
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					
Selenium									
	ND	200	161	mg/kg	81		SW846 6010B	05/03-05/04/01	ECMW81CQ
	ND	200	164	mg/kg	82	1.7	SW846 6010B	05/03-05/04/01	ECMW81CR
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E1E020280 **Matrix.....:** SOLID
Date Sampled...: 05/01/01 10:40 **Date Received..:** 05/01/01 16:55

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver									
	ND	5.00	4.24	mg/kg	85		SW846 6010B	05/03-05/04/01	ECMW81CT
	ND	5.00	4.37	mg/kg	87	3.2	SW846 6010B	05/03-05/04/01	ECMW81CU
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					
Thallium									
	1.6	200	175	mg/kg	87		SW846 6010B	05/03-05/04/01	ECMW81CV
	1.6	200	179	mg/kg	89	1.9	SW846 6010B	05/03-05/04/01	ECMW81CW
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					
Vanadium									
	43.2	50.0	87.3	mg/kg	88		SW846 6010B	05/03-05/04/01	ECMW81CX
	43.2	50.0	90.1	mg/kg	94	3.2	SW846 6010B	05/03-05/04/01	ECMW81C0
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					
Zinc									
	57.1	50.0	102	mg/kg	89		SW846 6010B	05/03-05/04/01	ECMW81C1
	57.1	50.0	102	mg/kg	90	0.52	SW846 6010B	05/03-05/04/01	ECMW81C2
				Dilution Factor: 1					
				Analysis Time..: 12:37		Instrument ID..: M01		Analyst ID.....: 003119	
				MS Run #.....: 1123126					

MS Lot-Sample #: E1E010247-004 **Prep Batch #...:** 1123280

Mercury									
	0.026	0.167	0.190	mg/kg	98		SW846 7471A	05/03-05/04/01	ECMW81C5
	0.026	0.167	0.188	mg/kg	97	0.88	SW846 7471A	05/03-05/04/01	ECMW81C6
				Dilution Factor: 1					
				Analysis Time..: 11:08		Instrument ID..: M04		Analyst ID.....: 021088	
				MS Run #.....: 1123128					

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 Volatiles

Client Lot #...: E1E020280
MS Lot-Sample #: E1E010253-001
Date Sampled...: 04/30/01 17:00
Prep Date.....: 05/04/01
Prep Batch #...: 1124415
Dilution Factor: 1

Work Order #...: ECM1G1AD-MS
ECM1G1AE-MSD
Date Received..: 05/01/01 20:00
Analysis Date..: 05/04/01
Analysis Time..: 06:07
Analyst ID.....: 015590

Matrix.....: WATER
MS Run #.....: 1124160
Instrument ID..: MSH

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**ND**	**10.0**	**9.57**	**ug/L**	**96**		**SW846 8260B**
	ND	**10.0**	**9.73**	**ug/L**	**97**	**1.6**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**12.4**	**ug/L**	**124**		**SW846 8260B**
	ND	**10.0**	**12.5**	**ug/L**	**125**	**0.80**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.29**	**ug/L**	**93**		**SW846 8260B**
	ND	**10.0**	**9.35**	**ug/L**	**94**	**0.64**	**SW846 8260B**
Toluene	**ND**	**10.0**	**8.99**	**ug/L**	**90**		**SW846 8260B**
	ND	**10.0**	**9.20**	**ug/L**	**92**	**2.3**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**10.5**	**ug/L**	**105**		**SW846 8260B**
	ND	**10.0**	**10.7**	**ug/L**	**107**	**1.6**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 120)
	99	(75 - 120)
1,2-Dichloroethane-d4	128	(65 - 130)
	122	(65 - 130)
Toluene-d8	100	(80 - 130)
	96	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E1E020280	**Work Order #...:**	ECPNX1AD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E020280-001		ECPNX1AE-MSD		
Date Sampled...:	04/30/01 13:30	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1123066
Prep Date.....:	05/02/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123197	**Analysis Time..:**	15:36		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	**ND**	**250**	**198**	**mg/kg**	**79**		**SW846 8015B**
	ND	**250**	**197**	**mg/kg**	**79**	**0.88**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	92	(60 - 130)
	94	(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 #...:	E1E020280	**Work Order #...:**	ECPN11AC-MS ECPN11AD-MSD	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E020280-002				
Date Sampled...:	05/01/01 06:50	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1123129
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123195	**Analysis Time..:**	14:20		
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**	**331**	**ug/kg**	**99**		**SW846 8082**
	ND	**333**	**322**	**ug/kg**	**97**	**2.8**	**SW846 8082**
Aroclor 1260	**ND**	**333**	**318**	**ug/kg**	**95**		**SW846 8082**
	ND	**333**	**325**	**ug/kg**	**98**	**2.2**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	106	(60 - 140)
	109	(60 - 140)
Tetrachloro-m-xylene	84	(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

Surrogates double spiked.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** ECPN31A1-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1E020280-004 ECPN31A2-MSD
Date Sampled...: 05/01/01 09:45 **Date Received..:** 05/02/01 15:35 **MS Run #.....:** 1130155
Prep Date.....: 05/09/01 **Analysis Date..:** 05/09/01
Prep Batch #...: 1130350 **Analysis Time..:** 23:50
Dilution Factor: 1 **Analyst ID.....:** 999998 **Instrument ID..:** MSG

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**2500**	**2200**	**ug/kg**	**88**		**SW846 8260B**
	ND	**2500**	**1660**	**ug/kg**	**66**	**28**	**SW846 8260B**
Benzene	**ND**	**2500**	**2230**	**ug/kg**	**89**		**SW846 8260B**
	ND	**2500**	**1750**	**ug/kg**	**70**	**24**	**SW846 8260B**
Trichloroethene	**19000**	**2500**	**16500**	**ug/kg**	**0.0**		**SW846 8260B**
	Qualifiers: a,MSC						
	19000	**2500**	**16900**	**ug/kg**	**0.0**	**0.0**	**SW846 8260B**
	Qualifiers: a,MSC						
Toluene	**ND**	**2500**	**2130**	**ug/kg**	**85**		**SW846 8260B**
	ND	**2500**	**1790**	**ug/kg**	**72**	**18**	**SW846 8260B**
Chlorobenzene	**ND**	**2500**	**2120**	**ug/kg**	**85**		**SW846 8260B**
	ND	**2500**	**1670**	**ug/kg**	**67**	**24**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(60 - 140)
	82	(60 - 140)
1,2-Dichloroethane-d4	99	(60 - 140)
	84	(60 - 140)
Toluene-d8	95	(60 - 140)
	88	(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/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** ECPV11A3-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1E020299-002 ECPV11A4-MSD
Date Sampled...: 05/02/01 08:15 **Date Received..:** 05/02/01 16:40 **MS Run #.....:** 1128260
Prep Date.....: 05/07/01 **Analysis Date..:** 05/07/01
Prep Batch #...: 1128469 **Analysis Time..:** 22:44
Dilution Factor: 1 **Analyst ID.....:** 015590 **Instrument ID..:** MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50.0**	**58.6**	**ug/kg**	**117**		**SW846 8260B**
	ND	**50.0**	**59.7**	**ug/kg**	**119**	**1.9**	**SW846 8260B**
Benzene	**ND**	**50.0**	**55.0**	**ug/kg**	**110**		**SW846 8260B**
	ND	**50.0**	**54.9**	**ug/kg**	**110**	**0.16**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**54.2**	**ug/kg**	**108**		**SW846 8260B**
	ND	**50.0**	**55.4**	**ug/kg**	**111**	**2.1**	**SW846 8260B**
Toluene	**ND**	**50.0**	**53.0**	**ug/kg**	**106**		**SW846 8260B**
	ND	**50.0**	**53.2**	**ug/kg**	**106**	**0.43**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**51.5**	**ug/kg**	**103**		**SW846 8260B**
	ND	**50.0**	**52.1**	**ug/kg**	**104**	**1.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(70 - 130)
	103	(70 - 130)
1,2-Dichloroethane-d4	104	(60 - 140)
	103	(60 - 140)
Toluene-d8	104	(70 - 130)
	103	(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/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** EC03M1C9-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1E070220-001 EC03M1DA-MSD
Date Sampled...: 05/04/01 10:00 **Date Received..:** 05/07/01 16:30 **MS Run #.....:** 1130112
Prep Date.....: 05/09/01 **Analysis Date..:** 05/09/01
Prep Batch #...: 1130287 **Analysis Time..:** 15:09
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**	**48.3**	**ug/kg**	**97**		**SW846 8260B**
	ND	**50.0**	**48.6**	**ug/kg**	**97**	**0.64**	**SW846 8260B**
Benzene	**ND**	**50.0**	**46.0**	**ug/kg**	**92**		**SW846 8260B**
	ND	**50.0**	**46.7**	**ug/kg**	**93**	**1.4**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**57.5**	**ug/kg**	**115**		**SW846 8260B**
	ND	**50.0**	**55.9**	**ug/kg**	**112**	**2.7**	**SW846 8260B**
Toluene	**ND**	**50.0**	**47.3**	**ug/kg**	**95**		**SW846 8260B**
	ND	**50.0**	**46.1**	**ug/kg**	**92**	**2.5**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**43.9**	**ug/kg**	**88**		**SW846 8260B**
	ND	**50.0**	**44.8**	**ug/kg**	**90**	**2.0**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	73	(70 - 130)
	98	(70 - 130)
1,2-Dichloroethane-d4	91	(60 - 140)
	93	(60 - 140)
Toluene-d8	102	(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

GC Volatiles

Client Lot #...:	E1E020280	**Work Order #...:**	ECHVQ1AD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1D270288-001		ECHVQ1AE-MSD		
Date Sampled...:	04/26/01 09:20	**Date Received..:**	04/27/01 10:00	**MS Run #.....:**	1121226
Prep Date.....:	04/30/01	**Analysis Date..:**	04/30/01		
Prep Batch #...:	1121487	**Analysis Time..:**	17:42		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**101**	**(80 - 140)**			**WA-DOE WTPH-G**
	110	**(80 - 140)**	**8.7**	**(0-40)**	**WA-DOE WTPH-G**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	111	(60 - 130)
	113	(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 Volatiles

Client Lot #...:	E1E020280	**Work Order #...:**	ECK9N1AG-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1D300206-018		ECK9N1AH-MSD		
Date Sampled...:	04/30/01 13:50	**Date Received..:**	04/30/01 16:40	**MS Run #.....:**	1123202
Prep Date.....:	05/02/01	**Analysis Date..:**	05/02/01		
Prep Batch #...:	1123398	**Analysis Time..:**	15:15		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**108**	**(80 - 140)**			**SW846 8015B**
	110	**(80 - 140)**	**1.9**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	113	(60 - 130)
	115	(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 #...: E1E020280 **Matrix.....:** SOLID
Date Sampled...: 05/01/01 10:40 **Date Received..:** 05/01/01 16:55

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E1E010247-004 **Prep Batch #...:** 1123277							
Aluminum	NC	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81A1
	NC	(80 - 120)		(0-25)	SW846 6010B	05/03-05/04/01	ECMW81A2
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Antimony	17 N	(75 - 115)			SW846 6010B	05/03-05/04/01	ECMW81A3
	17 N	(75 - 115)	0.49	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81A4
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Arsenic	83	(75 - 115)			SW846 6010B	05/03-05/04/01	ECMW81A5
	85	(75 - 115)	1.9	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81A6
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Barium	86	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81A7
	86	(80 - 120)	0.18	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81A8
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Beryllium	89	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81A9
	90	(80 - 120)	0.96	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81CA
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Cadmium	89	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81CC
	91	(80 - 120)	1.7	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81CD
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Chromium	96	(85 - 120)			SW846 6010B	05/03-05/04/01	ECMW81C3
	89	(85 - 120)	2.6	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81C4
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1E020280 **Matrix.....:** SOLID
Date Sampled...: 05/01/01 10:40 **Date Received..:** 05/01/01 16:55

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	89	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81CE
	92	(80 - 120)	2.0	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81CF
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Copper	90	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81CG
	93	(80 - 120)	1.3	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81CH
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Lead	86	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81CJ
	86	(80 - 120)	0.22	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81CK
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Molybdenum	82	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81CL
	83	(80 - 120)	1.4	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81CM
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Nickel	88	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81CN
	87	(80 - 120)	0.76	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81CP
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Selenium	81	(70 - 115)			SW846 6010B	05/03-05/04/01	ECMW81CQ
	82	(70 - 115)	1.7	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81CR
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Silver	85	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81CT
	87	(80 - 120)	3.2	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81CU
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					
Thallium	87	(75 - 120)			SW846 6010B	05/03-05/04/01	ECMW81CV
	89	(75 - 120)	1.9	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81CW
		Dilution Factor: 1					
		Analysis Time..: 12:37			Instrument ID..: M01	Analyst ID.....: 003119	
		MS Run #.....: 1123126					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E1E020280 **Matrix.....:** SOLID
Date Sampled...: 05/01/01 10:40 **Date Received..:** 05/01/01 16:55

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	88	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81CX
	94	(80 - 120)	3.2	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81C0

Dilution Factor: 1
Analysis Time..: 12:37 Instrument ID..: M01 Analyst ID.....: 003119
MS Run #.....: 1123126

Zinc	89	(80 - 120)			SW846 6010B	05/03-05/04/01	ECMW81C1
	90	(80 - 120)	0.52	(0-25)	SW846 6010B	05/03-05/04/01	ECMW81C2

Dilution Factor: 1
Analysis Time..: 12:37 Instrument ID..: M01 Analyst ID.....: 003119
MS Run #.....: 1123126

MS Lot-Sample #: E1E010247-004 **Prep Batch #...:** 1123280

Mercury	98	(80 - 120)			SW846 7471A	05/03-05/04/01	ECMW81C5
	97	(80 - 120)	0.88	(0-20)	SW846 7471A	05/03-05/04/01	ECMW81C6

Dilution Factor: 1
Analysis Time..: 11:08 Instrument ID..: M04 Analyst ID.....: 021088
MS Run #.....: 1123128

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 Volatiles

Client Lot #...:	E1E020280	**Work Order #...:**	ECM1G1AD-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1E010253-001		ECM1G1AE-MSD		
Date Sampled...:	04/30/01 17:00	**Date Received..:**	05/01/01 20:00	**MS Run #.....:**	1124160
Prep Date.....:	05/04/01	**Analysis Date..:**	05/04/01		
Prep Batch #...:	1124415	**Analysis Time..:**	06:07		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSH

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**96**	**(75 - 120)**			**SW846 8260B**
	97	**(75 - 120)**	**1.6**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**124**	**(70 - 130)**			**SW846 8260B**
	125	**(70 - 130)**	**0.80**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**93**	**(80 - 120)**			**SW846 8260B**
	94	**(80 - 120)**	**0.64**	**(0-25)**	**SW846 8260B**
Toluene	**90**	**(80 - 120)**			**SW846 8260B**
	92	**(80 - 120)**	**2.3**	**(0-25)**	**SW846 8260B**
Trichloroethene	**105**	**(75 - 130)**			**SW846 8260B**
	107	**(75 - 130)**	**1.6**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 120)
	99	(75 - 120)
1,2-Dichloroethane-d4	128	(65 - 130)
	122	(65 - 130)
Toluene-d8	100	(80 - 130)
	96	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E1E020280	**Work Order #...:**	ECPNX1AD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E020280-001		ECPNX1AE-MSD		
Date Sampled...:	04/30/01 13:30	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1123066
Prep Date.....:	05/02/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123197	**Analysis Time..:**	15:36		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**79**	**(60 - 130)**			**SW846 8015B**
	79	**(60 - 130)**	**0.88**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	92	(60 - 130)
	94	(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 #...:	E1E020280	**Work Order #...:**	ECPN11AC-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E020280-002		ECPN11AD-MSD		
Date Sampled...:	05/01/01 06:50	**Date Received..:**	05/02/01 15:35	**MS Run #.....:**	1123129
Prep Date.....:	05/03/01	**Analysis Date..:**	05/03/01		
Prep Batch #...:	1123195	**Analysis Time..:**	14:20		
Dilution Factor:	1	**Analyst ID.....:**	018568	**Instrument ID..:**	G8B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**99**	**(65 - 130)**			**SW846 8082**
	97	**(65 - 130)**	**2.8**	**(0-30)**	**SW846 8082**
Aroclor 1260	**95**	**(70 - 130)**			**SW846 8082**
	98	**(70 - 130)**	**2.2**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	106	(60 - 140)
	109	(60 - 140)
Tetrachloro-m-xylene	84	(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

Surrogates double spiked.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1E020280 **Work Order #...:** ECPN31A1-MS **Matrix.....:** SOLID
MS Lot-Sample #: E1E020280-004 ECPN31A2-MSD
Date Sampled...: 05/01/01 09:45 **Date Received..:** 05/02/01 15:35 **MS Run #.....:** 1130155
Prep Date.....: 05/09/01 **Analysis Date..:** 05/09/01
Prep Batch #...: 1130350 **Analysis Time..:** 23:50
Dilution Factor: 1 **Analyst ID.....:** 999998 **Instrument ID..:** MSG

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**88**	**(60 - 140)**			**SW846 8260B**
	66	**(60 - 140)**	**28**	**(0-35)**	**SW846 8260B**
Benzene	**89**	**(60 - 130)**			**SW846 8260B**
	70	**(60 - 130)**	**24**	**(0-35)**	**SW846 8260B**
Trichloroethene	**0.0 a,MSC**	**(60 - 140)**			**SW846 8260B**
	0.0 a,MSC	**(60 - 140)**	**0.0**	**(0-35)**	**SW846 8260B**
Toluene	**85**	**(60 - 130)**			**SW846 8260B**
	72	**(60 - 130)**	**18**	**(0-35)**	**SW846 8260B**
Chlorobenzene	**85**	**(60 - 130)**			**SW846 8260B**
	67	**(60 - 130)**	**24**	**(0-35)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(60 - 140)
	82	(60 - 140)
1,2-Dichloroethane-d4	99	(60 - 140)
	84	(60 - 140)
Toluene-d8	95	(60 - 140)
	88	(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/MS Volatiles

Client Lot #...:	E1E020280	**Work Order #...:**	ECPV11A3-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E020299-002		ECPV11A4-MSD		
Date Sampled...:	05/02/01 08:15	**Date Received..:**	05/02/01 16:40	**MS Run #.....:**	1128260
Prep Date.....:	05/07/01	**Analysis Date..:**	05/07/01		
Prep Batch #...:	1128469	**Analysis Time..:**	22:44		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**117**	**(60 - 150)**			**SW846 8260B**
	119	**(60 - 150)**	**1.9**	**(0-30)**	**SW846 8260B**
Benzene	**110**	**(70 - 140)**			**SW846 8260B**
	110	**(70 - 140)**	**0.16**	**(0-30)**	**SW846 8260B**
Trichloroethene	**108**	**(70 - 130)**			**SW846 8260B**
	111	**(70 - 130)**	**2.1**	**(0-30)**	**SW846 8260B**
Toluene	**106**	**(70 - 130)**			**SW846 8260B**
	106	**(70 - 130)**	**0.43**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**103**	**(70 - 130)**			**SW846 8260B**
	104	**(70 - 130)**	**1.2**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(70 - 130)
	103	(70 - 130)
1,2-Dichloroethane-d4	104	(60 - 140)
	103	(60 - 140)
Toluene-d8	104	(70 - 130)
	103	(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/MS Volatiles

Client Lot #...:	E1E020280	**Work Order #...:**	EC03M1C9-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E070220-001		EC03M1DA-MSD		
Date Sampled...:	05/04/01 10:00	**Date Received..:**	05/07/01 16:30	**MS Run #.....:**	1130112
Prep Date.....:	05/09/01	**Analysis Date..:**	05/09/01		
Prep Batch #...:	1130287	**Analysis Time..:**	15:09		
Dilution Factor:	1	**Analyst ID.....:**	999998	**Instrument ID..:**	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**97**	**(60 - 150)**			**SW846 8260B**
	97	**(60 - 150)**	**0.64**	**(0-30)**	**SW846 8260B**
Benzene	**92**	**(70 - 140)**			**SW846 8260B**
	93	**(70 - 140)**	**1.4**	**(0-30)**	**SW846 8260B**
Trichloroethene	**115**	**(70 - 130)**			**SW846 8260B**
	112	**(70 - 130)**	**2.7**	**(0-30)**	**SW846 8260B**
Toluene	**95**	**(70 - 130)**			**SW846 8260B**
	92	**(70 - 130)**	**2.5**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**88**	**(70 - 130)**			**SW846 8260B**
	90	**(70 - 130)**	**2.0**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	73	(70 - 130)
	98	(70 - 130)
1,2-Dichloroethane-d4	91	(60 - 140)
	93	(60 - 140)
Toluene-d8	102	(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