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 7, 2001

STL LOT NUMBER: E1E030325
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 four samples received under chain of custody by STL Los Angeles on May 3, 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 000025 pages.

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: Kennedy / Jenks	Project Manager: Rus Purcell	Date: 5-3-01	Chain of Custody Number: 024789
Address: 2151 Michelson Dr. suite 100	Telephone Number (Area Code)/Fax Number:	Lab Number:	Page 1 of 1
City: Irvine; State: CA.; Zip Code: 92612	Site Contact: Shane Scrimshire; Lab Contact:		
Project Name and Location (State): Boeing Parcel C	Carrier/Waybill Number:		
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 (Attach list if more space is needed): SO15 m / TPH	Special Instructions/ Conditions of Receipt
Build-1-M-16-050301-3	5-3-01	0900				X							X	
Build-1-M-16-050301-4	↓	0915				X							X	
Build-1-M-16-050301-5	↓	0930				X							X	
Build-32-M-18-050301-2	↓	1100				X							X	

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

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

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	5-3-01	1323	1. Received By: [signature]	5-3-01	1323
2. Relinquished By: [signature]	5-3-01	1515	2. Received By		
3. Relinquished By			3. Received By		

Comments

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

000002

BOE-C6-0122410

STL – LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 05/03/01

Quantims Lot #: 51E030325

Quote #:

Client Name: Kennedy Jenks

Project: Boeing C

Received by: MH

Date/Time Received: 05/03/01 @ 1515

Delivered by : ☐ Client ☐ Airborne ☐ Fed Ex ☐ DHL ☐ Ultra-Ex ☐ Rey B.
☐ UPS ☐ DES ☒ Other Courier

Initial / Date

Custody Seal Status: ☒ Intact ☐ Broken ☐ None ..... MB 05/03/01

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	1-24										PH
VOAh /*											N/A
Sbeeze	1										✓

k:HCl na:Sodium Hydroxide zna:Zinc Acetate/Sodium Hydroxide s: H2SO4 n:HNO3 n/f:HNO3-Field filtered n/fl: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: MB 05/03/01 REVIEWED BY/DATE:

000003

BOE-C6-0122411

EXECUTIVE SUMMARY - Detection Highlights

E1E030325

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
BUILD_1_M_16_050301_3 05/03/01 09:00	**001**			
C10-C11	770	200	mg/kg	SW846 8015B
C12-C13	3300	200	mg/kg	SW846 8015B
C14-C15	3100	200	mg/kg	SW846 8015B
C16-C17	2600	200	mg/kg	SW846 8015B
C18-C19	2200	200	mg/kg	SW846 8015B
C20-C23	1600	200	mg/kg	SW846 8015B
C24-C27	790	200	mg/kg	SW846 8015B
C28-C31	340	200	mg/kg	SW846 8015B
C32-C35	190 J	200	mg/kg	SW846 8015B
Total Carbon Chain Range	15000	200	mg/kg	SW846 8015B
C6-C8	1.5 B	1.0	mg/kg	SW846 8015B
BUILD_32_M_18_050301_2 05/03/01 11:00	**004**			
C28-C31	6.4 J	10	mg/kg	SW846 8015B
C32-C35	5.3 J	10	mg/kg	SW846 8015B
C40+	8.2 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	27	10	mg/kg	SW846 8015B

METHODS SUMMARY

E1E030325

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

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

SAMPLE SUMMARY

E1E030325

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
ECR29	001	BUILD_1_M_16_050301_3	05/03/01	09:00
ECR3A	002	BUILD_1_M_16_050301_4	05/03/01	09:15
ECR3C	003	BUILD_1_M_16_050301_5	05/03/01	09:30
ECR3D	004	BUILD_32_M_18_050301_2	05/03/01	11:00

NOTE(S) :

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

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_16_050301_3

GC Semivolatiles

Lot-Sample #...:	E1E030325-001	**Work Order #...:**	ECR291AA	**Matrix.....:**	SOLID
Date Sampled...:	05/03/01 09:00	**Date Received..:**	05/03/01 15:15	**MS Run #.....:**	1123235
Prep Date.....:	05/03/01	**Analysis Date..:**	05/04/01		
Prep Batch #...:	1123453	**Analysis Time..:**	12:13		
Dilution Factor:	20				
Analyst ID.....:	356074	**Instrument ID..:**	G01		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	200	mg/kg	100
C10-C11	**770**	**200**	**mg/kg**	**100**
C12-C13	**3300**	**200**	**mg/kg**	**100**
C14-C15	**3100**	**200**	**mg/kg**	**100**
C16-C17	**2600**	**200**	**mg/kg**	**100**
C18-C19	**2200**	**200**	**mg/kg**	**100**
C20-C23	**1600**	**200**	**mg/kg**	**100**
C24-C27	**790**	**200**	**mg/kg**	**100**
C28-C31	**340**	**200**	**mg/kg**	**100**
C32-C35	**190 J**	**200**	**mg/kg**	**100**
C36-C39	ND	200	mg/kg	100
C40+	ND	200	mg/kg	100
Total Carbon Chain Range	**15000**	**200**	**mg/kg**	**100**

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

NOTE(S):

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_16_050301_3

GC Volatiles

Lot-Sample #...:	E1E030325-001	**Work Order #...:**	ECR291AC	**Matrix.....:**	SOLID
Date Sampled...:	05/03/01 09:00	**Date Received..:**	05/03/01 15:15	**MS Run #.....:**	1127265
Prep Date.....:	05/07/01	**Analysis Date..:**	05/07/01		
Prep Batch #...:	1127528	**Analysis Time..:**	12:02		
Dilution Factor:	1				
Analyst ID.....:	001464	**Instrument ID..:**	G15		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	**1.5 B**	**1.0**	**mg/kg**	**0.10**

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

NOTE(S):

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

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_16_050301_4

GC Semivolatiles

Lot-Sample #...: E1E030325-002 **Work Order #...:** ECR3A1AA **Matrix.....:** SOLID
Date Sampled...: 05/03/01 09:15 **Date Received..:** 05/03/01 15:15 **MS Run #.....:** 1123235
Prep Date.....: 05/03/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1123453 **Analysis Time..:** 09:44
Dilution Factor: 1
Analyst ID.....: 356074 **Instrument ID..:** G01
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_16_050301_4

GC Volatiles

Lot-Sample #...:	E1E030325-002	**Work Order #...:**	ECR3A1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/03/01 09:15	**Date Received..:**	05/03/01 15:15	**MS Run #.....:**	1127265
Prep Date.....:	05/07/01	**Analysis Date..:**	05/07/01		
Prep Batch #...:	1127528	**Analysis Time..:**	12:28		
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_16_050301_5

GC Semivolatiles

Lot-Sample #...:	E1E030325-003	**Work Order #...:**	ECR3C1AA	**Matrix.....:**	SOLID
Date Sampled...:	05/03/01 09:30	**Date Received..:**	05/03/01 15:15	**MS Run #.....:**	1123235
Prep Date.....:	05/03/01	**Analysis Date..:**	05/04/01		
Prep Batch #...:	1123453	**Analysis Time..:**	10:14		
Dilution Factor:	1				
Analyst ID.....:	356074	**Instrument ID..:**	G01		
		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	81	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BUILD_1_M_16_050301_5

GC Volatiles

Lot-Sample #...:	E1E030325-003	**Work Order #...:**	ECR3C1AC	**Matrix.....:**	SOLID
Date Sampled...:	05/03/01 09:30	**Date Received..:**	05/03/01 15:15	**MS Run #.....:**	1127265
Prep Date.....:	05/07/01	**Analysis Date..:**	05/07/01		
Prep Batch #...:	1127528	**Analysis Time..:**	12:55		
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)	92	(60 - 130)

QC DATA ASSOCIATION SUMMARY

E1E030325

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8015B		1123453	1123235
	SOLID	SW846 8015B		1127528	1127265
002	SOLID	SW846 8015B		1123453	1123235
	SOLID	SW846 8015B		1127528	1127265
003	SOLID	SW846 8015B		1123453	1123235
	SOLID	SW846 8015B		1127528	1127265
004	SOLID	SW846 8015B		1123453	1123235
	SOLID	SW846 8015B		1127528	1127265

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1E030325
MB Lot-Sample #: E1E030000-453

Analysis Date..: 05/04/01
Dilution Factor: 1

Work Order #...: ECR341AA

Prep Date.....: 05/03/01
Prep Batch #...: 1123453

Analyst ID.....: 356074

Matrix.....: SOLID

Analysis Time..: 08:45
Instrument ID..: G01

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 Volatiles

Client Lot #...: E1E030325
MB Lot-Sample #: E1E070000-528

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

Work Order #...: EC0TD1AA

Prep Date.....: 05/07/01
Prep Batch #...: 1127528

Analyst ID.....: 001464

Matrix.....: SOLID

Analysis Time..: 11:32
Instrument ID..: G15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C6-C8	**0.14 J**	**1.0**	**mg/kg**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	90	(60 - 130)

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E1E030325 **Work Order #...:** ECR341AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E030000-453
Prep Date.....: 05/03/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1123453 **Analysis Time..:** 09:15
Dilution Factor: 1 **Instrument ID..:** G01
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	**250**	**202**	**mg/kg**	**81**	**SW846 8015B**

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

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E1E030325 **Work Order #...:** EC0TD1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E070000-528
Prep Date.....: 05/07/01 **Analysis Date..:** 05/07/01
Prep Batch #...: 1127528 **Analysis Time..:** 11:05
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**5.00**	**5.94**	**mg/kg**	**119**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	119	(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 #...: E1E030325 **Work Order #...:** ECR341AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E030000-453
Prep Date.....: 05/03/01 **Analysis Date..:** 05/04/01
Prep Batch #...: 1123453 **Analysis Time..:** 09:15
Dilution Factor: 1 **Instrument ID..:** G01
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**81**	**(60 - 130)**	**SW846 8015B**

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

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E1E030325 **Work Order #...:** EC0TD1AC **Matrix.....:** SOLID
LCS Lot-Sample#: E1E070000-528
Prep Date.....: 05/07/01 **Analysis Date..:** 05/07/01
Prep Batch #...: 1127528 **Analysis Time..:** 11:05
Dilution Factor: 1 **Instrument ID..:** G15
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**119**	**(80 - 140)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	119	(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 #...:	E1E030325	**Work Order #...:**	ECRMX1A2-MS ECRMX1A3-MSD	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E030272-001				
Date Sampled...:	05/03/01 13:30	**Date Received..:**	05/03/01 13:40	**MS Run #.....:**	1123235
Prep Date.....:	05/03/01	**Analysis Date..:**	05/04/01		
Prep Batch #...:	1123453	**Analysis Time..:**	12:43		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G01

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	**ND**	**250**	**164**	**mg/kg**	**66**		**SW846 8015B**
	ND	**250**	**194**	**mg/kg**	**78**	**17**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	93	(60 - 130)
	105	(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 #...:	E1E030325	**Work Order #...:**	ECR3D1AD-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E030325-004		ECR3D1AE-MSD		
Date Sampled...:	05/03/01 11:00	**Date Received..:**	05/03/01 15:15	**MS Run #.....:**	1127265
Prep Date.....:	05/07/01	**Analysis Date..:**	05/07/01		
Prep Batch #...:	1127528	**Analysis Time..:**	13:48		
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**	**5.20**	**mg/kg**	**104**		**SW846 8015B**
	ND	**5.00**	**5.11**	**mg/kg**	**102**	**1.6**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	119	(60 - 130)
	119	(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 #...:	E1E030325	**Work Order #...:**	ECRMX1A2-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E030272-001		ECRMX1A3-MSD		
Date Sampled...:	05/03/01 13:30	**Date Received..:**	05/03/01 13:40	**MS Run #.....:**	1123235
Prep Date.....:	05/03/01	**Analysis Date..:**	05/04/01		
Prep Batch #...:	1123453	**Analysis Time..:**	12:43		
Dilution Factor:	1	**Analyst ID.....:**	356074	**Instrument ID..:**	G01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**66**	**(60 - 130)**			**SW846 8015B**
	78	**(60 - 130)**	**17**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	93	(60 - 130)
	105	(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 #...:	E1E030325	**Work Order #...:**	ECR3D1AD-MS ECR3D1AE-MSD	**Matrix.....:**	SOLID
MS Lot-Sample #:	E1E030325-004				
Date Sampled...:	05/03/01 11:00	**Date Received..:**	05/03/01 15:15	**MS Run #.....:**	1127265
Prep Date.....:	05/07/01	**Analysis Date..:**	05/07/01		
Prep Batch #...:	1127528	**Analysis Time..:**	13:48		
Dilution Factor:	1	**Analyst ID.....:**	001464	**Instrument ID..:**	G15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**104**	**(80 - 140)**			**SW846 8015B**
	102	**(80 - 140)**	**1.6**	**(0-40)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	119	(60 - 130)
	119	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters