SEVERN TRENT SERVICES

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

Tel: 714 258 8610
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March 20, 2001

STL LOT NUMBER: E1C130250
PO/CONTRACT: 05160-SEV002

Jay Knight
Kennedy/Jenks Consultants
2151 Michelson Drive
Suite 100
Irvine, CA 92612

Dear Mr. Knight,

This report contains the analytical results for the sample received under chain of custody by STL Los Angeles on March 13, 2001. This sample is associated with your BRC, former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures meet method-specified acceptance criteria except as noted on the following page. 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 000026 pages.

SEVERN TRENT SERVICES

LOT NUMBER E1C130250

Nonconformance E01538

Affected Samples:
1: Tank 1-AC17031201

Affected Methods:
8015B TEPH

Case Narrative:
There was insufficient sample volume provided to prepare a project-specific MS/MSD. A duplicate LCS has been prepared to provide accuracy and precision measurement for the samples in this project.

Nonconformance E01539

Affected Samples:
1: Tank 1-AC17031201

Case Narrative:
The samples were received at room temperature, recorded as 18 degrees. Celsius.

Chain of Custody Record

STL-4124 (0700)

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

Client: Kennedy/Jenks Consultants	Project Manager: Jay Knigh	Date: 3/13/01	Chain of Custody Number: 051634
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1
City: Irvine; State: CA; Zip Code	Site Contact	Lab Contact	
Project Name and Location (State): Boeing C-6 Demolition	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 004034			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH		8015 (total carbon chain)	8260B											Special Instructions/ Conditions of Receipt
Tank 1 - #C17031201	3/12/01	5:10		X				1			X																Please send results to Jay Knight, KJ-Irvine

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)

1. Relinquished By: (Dave Diem)	Date: 3/13/01	Time: 4:18pm	1. Received By: Dacoeta	Date: 03/13/01	Time: 4:18
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

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

STL – LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 03/13/01

Quantims Lot #: E1C130250

Quote #: 38629

Client Name: Kennedy Jenks

Project: Boeing C-6

Received by: Pacolta

Date/Time Received: 03/13/01 16:18

Delivered by : [X] Client [ ] Airborne [ ] Fed Ex [ ] DHL [ ] Ultra-Ex [ ] Rey B. [ ] UPS [ ] DES [ ] Other _____

		Initial / Date
Custody Seal Status:	[ ] Intact [ ] Broken [X] None	KA 03/13
Custody Seal #(s):	[X] No Seal #	
Sample Container(s):	[ ] STL-LA [X] Client [ ] N/A	
Temperature(s) (COOLER/BLANK) in °C:	18°C (CORRECTED TEMP)	
Thermometer Used :	[X] IR (Infra-red) [ ] Digital (Probe)	
Samples:	[X] Intact [ ] Broken [ ] Other	
Anomalies:	[ ] No [ ] Yes (See Clouseau) t° = 18°C	
Labeled by	KA	
Labeling checked by		

Turn Around Time: [ ] RUSH–24HR [ ] RUSH–48HR [ ] RUSH–72HR [X] NORMAL

Short-Hold Notification: [ ] Ph [ ] Wet Chem [ ] Metals (Filter/Pres) [ ] Encore [X] N/A ... ✓

Outside Analysis(es) (Test/Lab/Date Sent Out) : – none

LEAVE NO BLANK SPACES ; USE N/A

Fraction	1										PH
VOAh /*	2										N/A
1LAGB	1										–

h: HCl na: Sodium Hydroxide znna: Zinc Acetate/Sodium Hydroxide s: H2SO4 n: HNO3 n/f: HNO3-Field filtered n/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: Pacolta 03/13/01 REVIEWED BY/DATE: _____

EXECUTIVE SUMMARY - Detection Highlights

E1C130250

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Tank 1-AC17031201 03/12/01 17:10 001				
C6-C8	0.035 J	0.10	mg/L	SW846 8015B
Acetone	20	10	ug/L	SW846 8260B
2-Butanone	23	5.0	ug/L	SW846 8260B
Ethylbenzene	16	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.65 J	1.0	ug/L	SW846 8260B
n-Propylbenzene	0.49 J	1.0	ug/L	SW846 8260B
Toluene	2.6	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	0.29 J	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	0.54 J	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	0.56 J	1.0	ug/L	SW846 8260B
Xylenes (total)	140	1.0	ug/L	SW846 8260B

METHODS SUMMARY

E1C130250

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3510
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

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

SAMPLE SUMMARY

E1C130250

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
DXCDK	001	Tank 1-AC17031201	03/12/01	17:10

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: Tank 1-AC17031201

GC Semivolatiles

Lot-Sample #...:	E1C130250-001	Work Order #...:	DXCDK1AC	Matrix.....:	WATER
Date Sampled...:	03/12/01 17:10	Date Received..:	03/13/01 16:18	MS Run #.....:	
Prep Date.....:	03/14/01	Analysis Date..:	03/16/01		
Prep Batch #...:	1073388	Analysis Time..:	13:08		
Dilution Factor:	1				
Analyst ID.....:	356074	Instrument ID..:	G02		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	1.0	mg/L	0.10
C10-C11	ND	1.0	mg/L	0.10
C12-C13	ND	1.0	mg/L	0.10
C14-C15	ND	1.0	mg/L	0.10
C16-C17	ND	1.0	mg/L	0.10
C18-C19	ND	1.0	mg/L	0.10
Total Carbon Chain Range	ND	1.0	mg/L	0.10
C20-C23	ND	1.0	mg/L	0.10
C24-C27	ND	1.0	mg/L	0.10
C28-C31	ND	1.0	mg/L	0.10
C32-C35	ND	1.0	mg/L	0.10
C36-C39	ND	1.0	mg/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	111	(60 - 130)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: Tank 1-AC17031201

GC Volatiles

Lot-Sample #...:	E1C130250-001	Work Order #...:	DXCDK1AA	Matrix.....:	WATER
Date Sampled...:	03/12/01 17:10	Date Received..:	03/13/01 16:18	MS Run #.....:	1075226
Prep Date.....:	03/14/01	Analysis Date..:	03/15/01		
Prep Batch #...:	1075424	Analysis Time..:	02:09		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G15		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	0.035 J	0.10	mg/L	0.030

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	72	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: Tank 1-AC17031201

GC/MS Volatiles

Lot-Sample #...:	E1C130250-001	**Work Order #...:**	DXCDK1AD	**Matrix.....:**	WATER
Date Sampled...:	03/12/01 17:10	**Date Received..:**	03/13/01 16:18	**MS Run #.....:**	1074196
Prep Date.....:	03/15/01	**Analysis Date..:**	03/15/01		
Prep Batch #...:	1074351	**Analysis Time..:**	02:48		
Dilution Factor:	1				
Analyst ID.....:	004648	**Instrument ID..:**	MSC		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**20**	**10**	**ug/L**	**3.0**
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Carbon tetrachloride	ND	0.50	ug/L	0.30
2-Butanone	**23**	**5.0**	**ug/L**	**3.0**
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.30
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.20
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.60
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Iodomethane	ND	2.0	ug/L	1.0
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.20
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Ethylbenzene	**16**	**1.0**	**ug/L**	**0.20**
Hexachlorobutadiene	ND	1.0	ug/L	0.30

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: Tank 1-AC17031201

GC/MS Volatiles

Lot-Sample #...: E1C130250-001 **Work Order #...:** DXCDK1AD **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Hexanone	ND	5.0	ug/L	2.0
Isopropylbenzene	**0.65 J**	**1.0**	**ug/L**	**0.20**
p-Isopropyltoluene	ND	1.0	ug/L	0.20
Methylene chloride	ND	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	2.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
n-Propylbenzene	**0.49 J**	**1.0**	**ug/L**	**0.40**
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Tetrachloroethene	ND	1.0	ug/L	0.70
Toluene	**2.6**	**1.0**	**ug/L**	**0.30**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.20
1,2,3-Trichloropropane	ND	1.0	ug/L	0.30
1,1,2-Trichlorotrifluoro-ethane	**0.29 J**	**1.0**	**ug/L**	**0.20**
1,2,4-Trimethylbenzene	**0.54 J**	**1.0**	**ug/L**	**0.20**
1,3,5-Trimethylbenzene	**0.56 J**	**1.0**	**ug/L**	**0.20**
Xylenes (total)	**140**	**1.0**	**ug/L**	**0.50**
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
Vinyl acetate	ND	5.0	ug/L	1.0
Tetrahydrofuran	ND	10	ug/L	2.0
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 120)
1,2-Dichloroethane-d4	98	(65 - 130)
Toluene-d8	92	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E1C130250

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8015B		1073388	
	WATER	SW846 8015B		1075424	1075226
	WATER	SW846 8260B		1074351	1074196

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E1C130250
MB Lot-Sample #: E1C140000-388
Work Order #...: DXD4F1AA
Matrix.....: WATER
Prep Date.....: 03/14/01
Analysis Time..: 10:06
Analysis Date..: 03/20/01
Prep Batch #...: 1073388
Instrument ID..: G02
Dilution Factor: 1
Analyst ID.....: 356074

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C8-C9	ND	1.0	mg/L	SW846 8015B
C10-C11	ND	1.0	mg/L	SW846 8015B
C12-C13	ND	1.0	mg/L	SW846 8015B
C14-C15	ND	1.0	mg/L	SW846 8015B
C16-C17	ND	1.0	mg/L	SW846 8015B
C18-C19	ND	1.0	mg/L	SW846 8015B
Total Carbon Chain Range	ND	1.0	mg/L	SW846 8015B
C20-C23	ND	1.0	mg/L	SW846 8015B
C24-C27	ND	1.0	mg/L	SW846 8015B
C28-C31	ND	1.0	mg/L	SW846 8015B
C32-C35	ND	1.0	mg/L	SW846 8015B
C36-C39	ND	1.0	mg/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	111	(60 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1C130250
MB Lot-Sample #: E1C150000-351
Analysis Date..: 03/14/01
Dilution Factor: 1

Work Order #...: DXFX91AA
Prep Date.....: 03/14/01
Prep Batch #...: 1074351
Analyst ID.....: 004648

Matrix.....: WATER
Analysis Time..: 20:51
Instrument ID..: MSC

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
'hlorobenzene	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
?-Hexanone	ND	5.0	ug/L	SW846 8260B
sopropylbenzene	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 #...: E1C130250 **Work Order #...:** DXFX91AA **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	89	(75 - 120)
1,2-Dichloroethane-d4	92	(65 - 130)
Toluene-d8	93	(80 - 130)

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E1C130250
MB Lot-Sample #: E1C160000-424

Work Order #...: DXJR21AA

Matrix.....: WATER

Prep Date.....: 03/14/01

Analysis Time..: 17:16

Analysis Date..: 03/14/01

Prep Batch #...: 1075424

Instrument ID..: G16

Dilution Factor: 1

Analyst ID.....: 001464

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C6-C8	ND	0.10	mg/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	69	(60 - 130)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E1C130250	**Work Order #...:**	DXD4F1AC-LCS	**Matrix.....:**	WATER
LCS Lot-Sample#:	E1C140000-388		DXD4F1AD-LCSD		
Prep Date.....:	03/14/01	**Analysis Date..:**	03/20/01		
Prep Batch #...:	1073388	**Analysis Time..:**	10:45		
Dilution Factor:	1	**Instrument ID..:**	G02		
Analyst ID.....:	356074				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	**5.00**	**5.88**	**mg/L**	**118**		**SW846 8015B**
	5.00	**4.83**	**mg/L**	**97**	**20**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	117	(60 - 130)
	96	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E1C130250	Work Order #...:	DXD4F1AC-LCS	Matrix.....:	WATER
LCS Lot-Sample#:	E1C140000-388		DXD4F1AD-LCSD		
Prep Date.....:	03/14/01	Analysis Date..:	03/20/01		
Prep Batch #...:	1073388	Analysis Time..:	10:45		
Dilution Factor:	1	Instrument ID..:	G02		
Analyst ID.....:	356074				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**118**	**(65 - 140)**			**SW846 8015B**
	97	**(65 - 140)**	**20**	**(0-25)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	117	(60 - 130)
	96	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1C130250 Work Order #...: DXFX91AC Matrix.....: WATER
LCS Lot-Sample#: E1C150000-351
Prep Date.....: 03/14/01 Analysis Date..: 03/14/01
Prep Batch #...: 1074351 Analysis Time..: 20:21
Dilution Factor: 1 Instrument ID..: MSC
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.26**	**ug/L**	**93**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**9.86**	**ug/L**	**99**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.24**	**ug/L**	**92**	**SW846 8260B**
Toluene	**10.0**	**9.06**	**ug/L**	**91**	**SW846 8260B**
Trichloroethene	**10.0**	**9.74**	**ug/L**	**97**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 120)
1,2-Dichloroethane-d4	90	(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 Volatiles

Client Lot #...: E1C130250 Work Order #...: DXJR21AC Matrix.....: WATER
LCS Lot-Sample#: E1C160000-424
Prep Date.....: 03/14/01 Analysis Date..: 03/14/01
Prep Batch #...: 1075424 Analysis Time..: 16:15
Dilution Factor: 1 Instrument ID..: G16
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	**1.00**	**0.987**	**mg/L**	**99**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	96	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1C130250 Work Order #...: DXFX91AC Matrix.....: WATER
LCS Lot-Sample#: E1C150000-351
Prep Date.....: 03/14/01 Analysis Date..: 03/14/01
Prep Batch #...: 1074351 Analysis Time..: 20:21
Dilution Factor: 1 Instrument ID..: MSC
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**93**	**(75 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**99**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**92**	**(80 - 120)**	**SW846 8260B**
Toluene	**91**	**(80 - 120)**	**SW846 8260B**
Trichloroethene	**97**	**(75 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 120)
1,2-Dichloroethane-d4	90	(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 Volatiles

Client Lot #...: E1C130250 Work Order #...: DXJR21AC Matrix.....: WATER
LCS Lot-Sample#: E1C160000-424
Prep Date.....: 03/14/01 Analysis Date..: 03/14/01
Prep Batch #...: 1075424 Analysis Time..: 16:15
Dilution Factor: 1 Instrument ID..: G16
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	**99**	**(60 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	96	(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 #...:	E1C130250	Work Order #...:	DXA681AM-MS	Matrix.....:	WATER
MS Lot-Sample #:	E1C130231-007		DXA681AN-MSD		
Date Sampled...:	03/13/01 08:20	Date Received..:	03/13/01 14:30	MS Run #.....:	1075226
Prep Date.....:	03/14/01	Analysis Date..:	03/14/01		
Prep Batch #...:	1075394	Analysis Time..:	23:56		
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**	**1000**	**1010**	**ug/L**	**101**		**SW846 8015B**
	ND	**1000**	**988**	**ug/L**	**99**	**2.1**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	108	(60 - 130)
	108	(60 - 130)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E1C130250	Work Order #...:	DXDXX1AF-MS	Matrix.....:	WATER
MS Lot-Sample #:	E1C140251-002		DXDXX1AG-MSD		
Date Sampled...:	03/13/01 14:40	Date Received..:	03/14/01 10:00	MS Run #.....:	1074196
Prep Date.....:	03/15/01	Analysis Date..:	03/15/01		
Prep Batch #...:	1074351	Analysis Time..:	06:18		
Dilution Factor:	1	Analyst ID.....:	004648	Instrument ID..:	MSC

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	ND	10.0	9.74	ug/L	97		SW846 8260B
	ND	10.0	9.37	ug/L	94	3.9	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.82	ug/L	98		SW846 8260B
	ND	10.0	9.28	ug/L	93	5.6	SW846 8260B
Chlorobenzene	ND	10.0	9.44	ug/L	94		SW846 8260B
	ND	10.0	9.07	ug/L	91	4.0	SW846 8260B
Toluene	ND	10.0	9.36	ug/L	94		SW846 8260B
	ND	10.0	8.98	ug/L	90	4.1	SW846 8260B
Trichloroethene	ND	10.0	9.76	ug/L	98		SW846 8260B
	ND	10.0	9.54	ug/L	95	2.3	SW846 8260B

JRROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 120)
	95	(75 - 120)
1,2-Dichloroethane-d4	95	(65 - 130)
	96	(65 - 130)
Toluene-d8	97	(80 - 130)
	97	(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 Volatiles

Client Lot #...:	E1C130250	Work Order #...:	DXA681AM-MS	Matrix.....:	WATER
MS Lot-Sample #:	E1C130231-007		DXA681AN-MSD		
Date Sampled...:	03/13/01 08:20	Date Received..:	03/13/01 14:30	MS Run #.....:	1075226
Prep Date.....:	03/14/01	Analysis Date..:	03/14/01		
Prep Batch #...:	1075394	Analysis Time..:	23:56		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	101	(60 - 130)			SW846 8015B
	99	(60 - 130)	2.1	(0-25)	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	108	(60 - 130)
	108	(60 - 130)

NOTE(S):

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

old print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1C130250	Work Order #...:	DXDXX1AF-MS	Matrix.....:	WATER
MS Lot-Sample #:	E1C140251-002		DXDXX1AG-MSD		
Date Sampled...:	03/13/01 14:40	Date Received..:	03/14/01 10:00	MS Run #.....:	1074196
Prep Date.....:	03/15/01	Analysis Date..:	03/15/01		
Prep Batch #...:	1074351	Analysis Time..:	06:18		
Dilution Factor:	1	Analyst ID.....:	004648	Instrument ID..:	MSC

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	97	(75 - 120)			SW846 8260B
	94	(75 - 120)	3.9	(0-25)	SW846 8260B
1,1-Dichloroethene	98	(70 - 130)			SW846 8260B
	93	(70 - 130)	5.6	(0-25)	SW846 8260B
Chlorobenzene	94	(80 - 120)			SW846 8260B
	91	(80 - 120)	4.0	(0-25)	SW846 8260B
Toluene	94	(80 - 120)			SW846 8260B
	90	(80 - 120)	4.1	(0-25)	SW846 8260B
Trichloroethene	98	(75 - 130)			SW846 8260B
	95	(75 - 130)	2.3	(0-25)	SW846 8260B

URROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 120)
	95	(75 - 120)
1,2-Dichloroethane-d4	95	(65 - 130)
	96	(65 - 130)
Toluene-d8	97	(80 - 130)
	97	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters