ANALYTICAL REPORT

PROJECT NO. GLENDALE, CA

CONOCOPHILLIPS SITE #0353

Lot #: E5J280366

John Nordenstam

TRC

SEVERN TRENT LABORATORIES, INC.

Beth Riley
Project Manager

October 31, 2005

EXECUTIVE SUMMARY - Detection Highlights

E5J280366

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
VW-1B 10/27/05 10:00 001				
Benzene	0.059	0.0020	ppm(v/v)	EPA-21 TO-14A
tert-Butyl alcohol	0.023	0.010	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	2.0	0.040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.55	0.040	ppm(v/v)	EPA-21 TO-14A
Toluene	4.5	0.10	ppm(v/v)	EPA-21 TO-14A
TPH (as Gasoline)	88	10	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	15	0.040	ppm(v/v)	EPA-21 TO-14A
VW-2B 10/27/05 10:00 002				
Benzene	0.071	0.0020	ppm(v/v)	EPA-21 TO-14A
tert-Butyl alcohol	0.018	0.010	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	2.1	0.040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	1.1	0.040	ppm(v/v)	EPA-21 TO-14A
Toluene	5.2	0.10	ppm(v/v)	EPA-21 TO-14A
TPH (as Gasoline)	77	10	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	14	0.040	ppm(v/v)	EPA-21 TO-14A
VW-3B 10/27/05 10:00 003				
Benzene	0.016	0.0020	ppm(v/v)	EPA-21 TO-14A
tert-Butyl alcohol	0.014	0.010	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	2.2	0.040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.84	0.040	ppm(v/v)	EPA-21 TO-14A
Toluene	2.5	0.10	ppm(v/v)	EPA-21 TO-14A
TPH (as Gasoline)	69	10	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	15	0.040	ppm(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E5J280366

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E5J280366

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HNW25	001	VW-1B	10/27/05	10:00
HNW27	002	VW-2B	10/27/05	10:00
HNW28	003	VW-3B	10/27/05	10:00

NOTE(S):

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

TRC

Client Sample ID: VW-1B

GC/MS Volatiles

Lot-Sample #...: E5J280366-001 **Work Order #...:** HNW251AA **Matrix.....:** V
Date Sampled...: 10/27/05 10:00 **Date Received..:** 10/28/05 15:15 **MS Run #.....:**
Prep Date.....: 10/29/05 **Analysis Date..:** 10/29/05
Prep Batch #...: 5304298 **Analysis Time..:** 13:13
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.059**	**0.0020**	**ppm(v/v)**	**0.00080**
tert-Butyl alcohol	**0.023**	**0.010**	**ppm(v/v)**	**0.0020**
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	0.00050
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	0.00080
Diisopropyl ether	ND	0.0020	ppm(v/v)	0.00040
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00040
Tert-butyl ethyl ether	ND	0.0020	ppm(v/v)	0.00020

TRC

Client Sample ID: VW-1B

GC/MS Volatiles

Lot-Sample #...: E5J280366-001 Work Order #...: HNW252AA Matrix.....: V
Date Sampled...: 10/27/05 10:00 Date Received..: 10/28/05 15:15 MS Run #.....:
Prep Date.....: 10/30/05 Analysis Date..: 10/30/05
Prep Batch #...: 5304298 Analysis Time..: 01:15
Dilution Factor: 20
Analyst ID.....: 117751 Instrument ID..: MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethylbenzene	2.0	0.040	ppm(v/v)	0.010
Methyl tert-butyl ether (MTBE)	0.55	0.040	ppm(v/v)	0.010
Toluene	4.5	0.10	ppm(v/v)	0.010
TPH (as Gasoline)	88	10	ppm(v/v)	2.0
Xylenes (total)	15	0.040	ppm(v/v)	0.020

TRC

Client Sample ID: VW-2B

GC/MS Volatiles

Lot-Sample #...: E5J280366-002 **Work Order #...:** HNW271AA **Matrix.....:** V
Date Sampled...: 10/27/05 10:00 **Date Received..:** 10/28/05 15:15 **MS Run #.....:**
Prep Date.....: 10/29/05 **Analysis Date..:** 10/29/05
Prep Batch #...: 5304298 **Analysis Time..:** 13:45
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.071**	**0.0020**	**ppm(v/v)**	**0.00080**
tert-Butyl alcohol	**0.018**	**0.010**	**ppm(v/v)**	**0.0020**
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	0.00050
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	0.00080
Diisopropyl ether	ND	0.0020	ppm(v/v)	0.00040
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00040
Tert-butyl ethyl ether	ND	0.0020	ppm(v/v)	0.00020

TRC

Client Sample ID: VW-2B

GC/MS Volatiles

Lot-Sample #...:	E5J280366-002	Work Order #...:	HNW272AA	Matrix.....:	V
Date Sampled...:	10/27/05 10:00	Date Received..:	10/28/05 15:15	MS Run #.....:	
Prep Date.....:	10/30/05	Analysis Date..:	10/30/05		
Prep Batch #...:	5304298	Analysis Time..:	01:49		
Dilution Factor:	20				
Analyst ID.....:	117751	Instrument ID..:	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethylbenzene	2.1	0.040	ppm(v/v)	0.010
Methyl tert-butyl ether (MTBE)	1.1	0.040	ppm(v/v)	0.010
Toluene	5.2	0.10	ppm(v/v)	0.010
TPH (as Gasoline)	77	10	ppm(v/v)	2.0
Xylenes (total)	14	0.040	ppm(v/v)	0.020

TRC

Client Sample ID: VW-3B

GC/MS Volatiles

Lot-Sample #...: E5J280366-003 **Work Order #...:** HNW281AA **Matrix.....:** V
Date Sampled...: 10/27/05 10:00 **Date Received..:** 10/28/05 15:15 **MS Run #.....:**
Prep Date.....: 10/29/05 **Analysis Date..:** 10/29/05
Prep Batch #...: 5304298 **Analysis Time..:** 14:14
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.016**	**0.0020**	**ppm(v/v)**	**0.00080**
tert-Butyl alcohol	**0.014**	**0.010**	**ppm(v/v)**	**0.0020**
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	0.00050
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	0.00080
Diisopropyl ether	ND	0.0020	ppm(v/v)	0.00040
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00040
Tert-butyl ethyl ether	ND	0.0020	ppm(v/v)	0.00020

TRC

Client Sample ID: VW-3B

GC/MS Volatiles

Lot-Sample #...: E5J280366-003 Work Order #...: HNW282AA Matrix.....: V
Date Sampled...: 10/27/05 10:00 Date Received..: 10/28/05 15:15 MS Run #.....:
Prep Date.....: 10/30/05 Analysis Date..: 10/30/05
Prep Batch #...: 5304298 Analysis Time..: 01:23
Dilution Factor: 20
Analyst ID.....: 117751 Instrument ID..: MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethylbenzene	2.2	0.040	ppm(v/v)	0.010
Methyl tert-butyl ether (MTBE)	0.84	0.040	ppm(v/v)	0.010
Toluene	2.5	0.10	ppm(v/v)	0.010
TPH (as Gasoline)	69	10	ppm(v/v)	2.0
Xylenes (total)	15	0.040	ppm(v/v)	0.020

TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5J280366

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	V	EPA-21 TO-14A		5304298	
002	V	EPA-21 TO-14A		5304298	
003	V	EPA-21 TO-14A		5304298	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5J280366
MB Lot-Sample #: M5J310000-298

Work Order #...: HN1R31AA

Matrix.....: AIR

Prep Date.....: 10/29/05
Prep Batch #...: 5304298

Analysis Time..: 12:12
Instrument ID..: MSA

Analysis Date..: 10/29/05
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
tert-Butyl alcohol	ND	0.010	ppm(v/v)	EPA-21 TO-14A
1,2-Dibromoethane (EDB)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Diisopropyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tert-butyl ethyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
TPH (as Gasoline)	ND	0.50	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5J280366
LCS Lot-Sample#: M5J310000-298
Prep Date.....: 10/29/05
Prep Batch #...: 5304298
Dilution Factor: 1
Analyst ID.....: 117751

Work Order #...: HN1R31AC-LCS
HN1R31AD-LCSD
Analysis Date..: 10/29/05
Analysis Time..: 11:10
Instrument ID..: MSA

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Toluene	**86**	**(75 - 125)**			**EPA-21 TO-14A**
	85	**(75 - 125)**	**0.44**	**(0-20)**	**EPA-21 TO-14A**

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 #...: E5J280366
LCS Lot-Sample#: M5J310000-298
Prep Date.....: 10/29/05
Prep Batch #...: 5304298
Dilution Factor: 1
Analyst ID.....: 117751

Work Order #...: HN1R31AC-LCS
HN1R31AD-LCSD
Analysis Date..: 10/29/05
Analysis Time..: 11:10
Instrument ID..: MSA

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Toluene	**0.0500**	**0.0429**	**ppm(v/v)**	**86**		**EPA-21 TO-14A**
	0.0500	**0.0427**	**ppm(v/v)**	**85**	**0.44**	**EPA-21 TO-14A**

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

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

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

October 31, 2005

STL LOT NUMBER: **E5J200408**
PO/CONTRACT: 4711TRC009

John Nordenstam
TRC
21 Technology Drive
Irvine, CA 92718

Dear John Nordenstam,

This report contains the analytical results for the eight samples received under chain of custody by STL Los Angeles on October 20, 2005. These samples are associated with your CONOCOPHILLIPS SITE #0353 project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA / E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000032 pages.

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

Sincerely,

Beth Riley
Project Manager

cc: Project File

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: TRC	Project Manager: John Nordenstan (949) 283-4754 (TRC)	Date: 10/19/05	Chain of Custody Number: 217179
Address: 21 Technology Dr.	Telephone Number (Area Code)/Fax Number: (949)-283-5448 Gaba Farramola	Lab Number: ESI200408	Page 1 of 1
City: IRVINE; State: Ca.; Zip Code:	Site Contact: PAT LOYA (949) 283-4865	Lab Contact: Beth Riley	
Project Name and Location (State): (TC) Conoco Phillips #0353, Glendale Ca. 91204 2005 Central Ave	Carrier/Waybill Number: Work order # 4711TRC009		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tedlar	TPHg EPA Method TO-3	BTEX EPA method TO-14	OXygenates MTBE, DIPE	TAME, ETBA	TBA, EPA method TO-14				Special Instructions/ Conditions of Receipt
VW-1C	10/19/05	10:30AM												X	X	X	X	X	X				Call John N.
VW-2C	10/19/05	10:30AM												X	X	X	X	X	X				(949) 283-4754
VW-3C	10/19/05	10:30AM												X	X	X	X	X	X				
VW-1C	10/20/05	11:00Am												X	X	X	X	X	X				
VW-2C	10/20/05	11:00Am												X	X	X	X	X	X				
VW-3C	10/20/05	11:00Am												X	X	X	X	X	X				
MW-1A	10/20/05	11:30Am												X	X	X	X	X	X				
MW-3A	10/20/05	11:30Am												X	X	X	X	X	X				

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

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

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

QC Requirements (Specify):

1. Relinquished By: [signature]	Date: 10/19/05	Time: 11:00AM	1. Received By: [signature]	Date: 10/20/05	Time: 12:45
2. Relinquished By: [signature]	Date: 10/20/05	Time: 1325	2. Received By: [signature]	Date: 102005	Time: 1325
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

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

000002

SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

PROJECT NO. GLENDALE, CA

CONOCOPHILLIPS SITE#0353

Lot #: E5J200408

John Nordenstam

TRC

SEVERN TRENT LABORATORIES, INC.

Beth Riley
Project Manager

October 31, 2005

EXECUTIVE SUMMARY - Detection Highlights

E5J200408

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
VW-1C 10/19/05 10:30 001				
TPH (as Gasoline)	7.5	1.0	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	0.085	0.012	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	2.1	0.012	ppm(v/v)	EPA-21 TO-14A
Toluene	0.15	0.031	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	1.0	0.012	ppm(v/v)	EPA-21 TO-14A
VW-2C 10/19/05 10:30 002				
TPH (as Gasoline)	7.5	1.0	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	0.068	0.040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	5.6	0.040	ppm(v/v)	EPA-21 TO-14A
Toluene	0.18	0.10	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.55	0.040	ppm(v/v)	EPA-21 TO-14A
VW-3C 10/19/05 10:30 003				
TPH (as Gasoline)	4.3	1.0	ppm(v/v)	EPA-19 TO-3
Methyl tert-butyl ether (MTBE)	4.8	0.033	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.15	0.033	ppm(v/v)	EPA-21 TO-14A
VW-1C 10/20/05 11:00 004				
TPH (as Gasoline)	9.8	1.0	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	0.14	0.010	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	1.4	0.010	ppm(v/v)	EPA-21 TO-14A
Toluene	0.17	0.025	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	1.5	0.010	ppm(v/v)	EPA-21 TO-14A
VW-2C 10/20/05 11:00 005				
TPH (as Gasoline)	7.4	1.0	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	0.076	0.025	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	4.3	0.025	ppm(v/v)	EPA-21 TO-14A
Toluene	0.11	0.062	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.71	0.025	ppm(v/v)	EPA-21 TO-14A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5J200408

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
VW-3C 10/20/05 11:00 006				
TPH (as Gasoline)	5.0	1.0	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	0.043	0.020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	3.6	0.020	ppm(v/v)	EPA-21 TO-14A
Toluene	0.062	0.050	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.44	0.020	ppm(v/v)	EPA-21 TO-14A
MW-1A 10/20/05 11:30 007				
TPH (as Gasoline)	7.6	1.0	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	0.15	0.0040	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.11	0.0040	ppm(v/v)	EPA-21 TO-14A
Toluene	0.20	0.010	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	1.4	0.0040	ppm(v/v)	EPA-21 TO-14A
MW-3A 10/20/05 11:30 008				
TPH (as Gasoline)	3.4	1.0	ppm(v/v)	EPA-19 TO-3
tert-Butyl alcohol	0.012	0.010	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	0.054	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.066	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	0.066	0.0050	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.51	0.0020	ppm(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E5J200408

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
TPH by TO-3	EPA-19 TO-3	
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

EPA-19 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA/600/4-89/017, January 1988

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E5J200408

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HM8ER	001	VW-1C	10/19/05	10:30
HM8F0	002	VW-2C	10/19/05	10:30
HM8F3	003	VW-3C	10/19/05	10:30
HM8F7	004	VW-1C	10/20/05	11:00
HM8F9	005	VW-2C	10/20/05	11:00
HM8GA	006	VW-3C	10/20/05	11:00
HM8GC	007	MW-1A	10/20/05	11:30
HM8GE	008	MW-3A	10/20/05	11:30

NOTE(S):

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- 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.

TRC

Client Sample ID: VW-1C

GC/MS Volatiles

Lot-Sample #...:	E5J200408-001	Work Order #...:	HM8ER1AC	Matrix.....:	V
Date Sampled...:	10/19/05 10:30	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5299696	Analysis Time..:	12:34		
Dilution Factor:	6.25				
Analyst ID.....:	117751	Instrument ID..:	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.012	ppm(v/v)	0.0050
tert-Butyl alcohol	ND	0.062	ppm(v/v)	0.012
Diisopropyl ether	ND	0.012	ppm(v/v)	0.0025
Tert-amyl methyl ether	ND	0.012	ppm(v/v)	0.0025
Tert-butyl ethyl ether	ND	0.012	ppm(v/v)	0.0012
Ethylbenzene	**0.085**	**0.012**	**ppm(v/v)**	**0.0031**
Methyl tert-butyl ether (MTBE)	**2.1**	**0.012**	**ppm(v/v)**	**0.0031**
Toluene	**0.15**	**0.031**	**ppm(v/v)**	**0.0031**
Xylenes (total)	**1.0**	**0.012**	**ppm(v/v)**	**0.0062**

TRC

Client Sample ID: VW-1C

GC Volatiles

Lot-Sample #...:	E5J200408-001	Work Order #...:	HM8ER1AA	Matrix.....:	V
Date Sampled...:	10/19/05 10:30	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5295011	Analysis Time..:	10:53		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	7.5	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-2C

GC/MS Volatiles

Lot-Sample #...: E5J200408-002 Work Order #...: HM8F01AC Matrix.....: V
Date Sampled...: 10/19/05 10:30 Date Received..: 10/20/05 13:25 MS Run #.....:
Prep Date.....: 10/21/05 Analysis Date..: 10/21/05
Prep Batch #...: 5299696 Analysis Time..: 13:04
Dilution Factor: 20
Analyst ID.....: 117751 Instrument ID..: MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.040	ppm(v/v)	0.016
tert-Butyl alcohol	ND	0.20	ppm(v/v)	0.040
Diisopropyl ether	ND	0.040	ppm(v/v)	0.0080
Tert-amyl methyl ether	ND	0.040	ppm(v/v)	0.0080
Tert-butyl ethyl ether	ND	0.040	ppm(v/v)	0.0040
Ethylbenzene	**0.068**	**0.040**	**ppm(v/v)**	**0.010**
Methyl tert-butyl ether (MTBE)	**5.6**	**0.040**	**ppm(v/v)**	**0.010**
Toluene	**0.18**	**0.10**	**ppm(v/v)**	**0.010**
Xylenes (total)	**0.55**	**0.040**	**ppm(v/v)**	**0.020**

TRC

Client Sample ID: VW-2C

GC Volatiles

Lot-Sample #...:	E5J200408-002	Work Order #...:	HM8F01AA	Matrix.....:	V
Date Sampled...:	10/19/05 10:30	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5295011	Analysis Time..:	11:14		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	7.5	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-3C

GC/MS Volatiles

Lot-Sample #...:	E5J200408-003	**Work Order #...:**	HM8F31AC	**Matrix.....:**	V
Date Sampled...:	10/19/05 10:30	**Date Received..:**	10/20/05 13:25	**MS Run #.....:**	
Prep Date.....:	10/21/05	**Analysis Date..:**	10/21/05		
Prep Batch #...:	5299696	**Analysis Time..:**	13:35		
Dilution Factor:	16.67				
Analyst ID.....:	117751	**Instrument ID..:**	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.033	ppm(v/v)	0.013
tert-Butyl alcohol	ND	0.17	ppm(v/v)	0.033
Diisopropyl ether	ND	0.033	ppm(v/v)	0.0067
Tert-amyl methyl ether	ND	0.033	ppm(v/v)	0.0067
Tert-butyl ethyl ether	ND	0.033	ppm(v/v)	0.0033
Ethylbenzene	ND	0.033	ppm(v/v)	0.0083
Methyl tert-butyl ether (MTBE)	**4.8**	**0.033**	**ppm(v/v)**	**0.0083**
Toluene	ND	0.083	ppm(v/v)	0.0083
Xylenes (total)	**0.15**	**0.033**	**ppm(v/v)**	**0.017**

TRC

Client Sample ID: VW-3C

GC Volatiles

Lot-Sample #...:	E5J200408-003	Work Order #...:	HM8F31AA	Matrix.....:	V
Date Sampled...:	10/19/05 10:30	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5295011	Analysis Time..:	11:35		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	4.3	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-1C

GC/MS Volatiles

Lot-Sample #...: E5J200408-004 Work Order #...: HM8F71AC Matrix.....: V
Date Sampled...: 10/20/05 11:00 Date Received..: 10/20/05 13:25 MS Run #.....:
Prep Date.....: 10/21/05 Analysis Date..: 10/21/05
Prep Batch #...: 5299696 Analysis Time..: 14:03
Dilution Factor: 5
Analyst ID.....: 117751 Instrument ID..: MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.010	ppm(v/v)	0.0040
tert-Butyl alcohol	ND	0.050	ppm(v/v)	0.010
Diisopropyl ether	ND	0.010	ppm(v/v)	0.0020
Tert-amyl methyl ether	ND	0.010	ppm(v/v)	0.0020
Tert-butyl ethyl ether	ND	0.010	ppm(v/v)	0.0010
Ethylbenzene	**0.14**	**0.010**	**ppm(v/v)**	**0.0025**
Methyl tert-butyl ether (MTBE)	**1.4**	**0.010**	**ppm(v/v)**	**0.0025**
Toluene	**0.17**	**0.025**	**ppm(v/v)**	**0.0025**
Xylenes (total)	**1.5**	**0.010**	**ppm(v/v)**	**0.0050**

TRC

Client Sample ID: VW-1C

GC Volatiles

Lot-Sample #...:	E5J200408-004	Work Order #...:	HM8F71AA	Matrix.....:	V
Date Sampled...:	10/20/05 11:00	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5295011	Analysis Time..:	11:55		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	9.8	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-2C

GC/MS Volatiles

Lot-Sample #...: E5J200408-005 Work Order #...: HM8F91AC Matrix.....: V
Date Sampled...: 10/20/05 11:00 Date Received..: 10/20/05 13:25 MS Run #.....:
Prep Date.....: 10/21/05 Analysis Date..: 10/21/05
Prep Batch #...: 5299696 Analysis Time..: 14:34
Dilution Factor: 12.5
Analyst ID.....: 117751 Instrument ID..: MSA
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.025	ppm(v/v)	0.010
tert-Butyl alcohol	ND	0.12	ppm(v/v)	0.025
Diisopropyl ether	ND	0.025	ppm(v/v)	0.0050
Tert-amyl methyl ether	ND	0.025	ppm(v/v)	0.0050
Tert-butyl ethyl ether	ND	0.025	ppm(v/v)	0.0025
Ethylbenzene	**0.076**	**0.025**	**ppm(v/v)**	**0.0062**
Methyl tert-butyl ether (MTBE)	**4.3**	**0.025**	**ppm(v/v)**	**0.0062**
Toluene	**0.11**	**0.062**	**ppm(v/v)**	**0.0062**
Xylenes (total)	**0.71**	**0.025**	**ppm(v/v)**	**0.012**

TRC

Client Sample ID: VW-2C

GC Volatiles

Lot-Sample #...:	E5J200408-005	Work Order #...:	HM8F91AA	Matrix.....:	V
Date Sampled...:	10/20/05 11:00	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5295011	Analysis Time..:	12:16		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	7.4	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-3C

GC/MS Volatiles

Lot-Sample #...:	E5J200408-006	**Work Order #...:**	HM8GA1AC	**Matrix.....:**	V
Date Sampled...:	10/20/05 11:00	**Date Received..:**	10/20/05 13:25	**MS Run #.....:**	
Prep Date.....:	10/21/05	**Analysis Date..:**	10/21/05		
Prep Batch #...:	5299696	**Analysis Time..:**	15:02		
Dilution Factor:	10				
Analyst ID.....:	117751	**Instrument ID..:**	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.020	ppm(v/v)	0.0080
tert-Butyl alcohol	ND	0.10	ppm(v/v)	0.020
Diisopropyl ether	ND	0.020	ppm(v/v)	0.0040
Tert-amyl methyl ether	ND	0.020	ppm(v/v)	0.0040
Tert-butyl ethyl ether	ND	0.020	ppm(v/v)	0.0020
Ethylbenzene	**0.043**	**0.020**	**ppm(v/v)**	**0.0050**
Methyl tert-butyl ether (MTBE)	**3.6**	**0.020**	**ppm(v/v)**	**0.0050**
Toluene	**0.062**	**0.050**	**ppm(v/v)**	**0.0050**
Xylenes (total)	**0.44**	**0.020**	**ppm(v/v)**	**0.010**

TRC

Client Sample ID: VW-3C

GC Volatiles

Lot-Sample #...:	E5J200408-006	Work Order #...:	HM8GA1AA	Matrix.....:	V
Date Sampled...:	10/20/05 11:00	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5295011	Analysis Time..:	12:37		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	5.0	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: MW-1A

GC/MS Volatiles

Lot-Sample #...:	E5J200408-007	Work Order #...:	HM8GC1AC	Matrix.....:	V
Date Sampled...:	10/20/05 11:30	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5299696	Analysis Time..:	15:32		
Dilution Factor:	2				
Analyst ID.....:	117751	Instrument ID..:	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0040	ppm(v/v)	0.0016
tert-Butyl alcohol	ND	0.020	ppm(v/v)	0.0040
Diisopropyl ether	ND	0.0040	ppm(v/v)	0.00080
Tert-amyl methyl ether	ND	0.0040	ppm(v/v)	0.00080
Tert-butyl ethyl ether	ND	0.0040	ppm(v/v)	0.00040
Ethylbenzene	**0.15**	**0.0040**	**ppm(v/v)**	**0.0010**
Methyl tert-butyl ether (MTBE)	**0.11**	**0.0040**	**ppm(v/v)**	**0.0010**
Toluene	**0.20**	**0.010**	**ppm(v/v)**	**0.0010**
Xylenes (total)	**1.4**	**0.0040**	**ppm(v/v)**	**0.0020**

TRC

Client Sample ID: MW-1A

GC Volatiles

Lot-Sample #...:	E5J200408-007	Work Order #...:	HM8GC1AA	Matrix.....:	V
Date Sampled...:	10/20/05 11:30	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5295011	Analysis Time..:	12:57		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	7.6	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: MW-3A

GC/MS Volatiles

Lot-Sample #...:	E5J200408-008	Work Order #...:	HM8GE1AC	Matrix.....:	V
Date Sampled...:	10/20/05 11:30	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5299696	Analysis Time..:	16:01		
Dilution Factor:	1				
Analyst ID.....:	117751	Instrument ID..:	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0020	ppm(v/v)	0.00080
tert-Butyl alcohol	**0.012**	**0.010**	**ppm(v/v)**	**0.0020**
Diisopropyl ether	ND	0.0020	ppm(v/v)	0.00040
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00040
Tert-butyl ethyl ether	ND	0.0020	ppm(v/v)	0.00020
Ethylbenzene	**0.054**	**0.0020**	**ppm(v/v)**	**0.00050**
Methyl tert-butyl ether (MTBE)	**0.066**	**0.0020**	**ppm(v/v)**	**0.00050**
Toluene	**0.066**	**0.0050**	**ppm(v/v)**	**0.00050**
Xylenes (total)	**0.51**	**0.0020**	**ppm(v/v)**	**0.0010**

TRC

Client Sample ID: MW-3A

GC Volatiles

Lot-Sample #...:	E5J200408-008	Work Order #...:	HM8GE1AA	Matrix.....:	V
Date Sampled...:	10/20/05 11:30	Date Received..:	10/20/05 13:25	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5295011	Analysis Time..:	13:18		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	3.4	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5J200408

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	V	EPA-19 TO-3		5295011	
	V	EPA-21 TO-14A		5299696	
002	V	EPA-19 TO-3		5295011	
	V	EPA-21 TO-14A		5299696	
003	V	EPA-19 TO-3		5295011	
	V	EPA-21 TO-14A		5299696	
004	V	EPA-19 TO-3		5295011	
	V	EPA-21 TO-14A		5299696	
005	V	EPA-19 TO-3		5295011	
	V	EPA-21 TO-14A		5299696	
006	V	EPA-19 TO-3		5295011	
	V	EPA-21 TO-14A		5299696	
007	V	EPA-19 TO-3		5295011	
	V	EPA-21 TO-14A		5299696	
008	V	EPA-19 TO-3		5295011	
	V	EPA-21 TO-14A		5299696	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5J200408
MB Lot-Sample #: M5J260000-696

Analysis Date..: 10/21/05
Dilution Factor: 1

Work Order #...: HNNJ71AA

Prep Date.....: 10/21/05
Prep Batch #...: 5299696

Analyst ID.....: 117751

Matrix.....: AIR

Analysis Time..: 10:59
Instrument ID..: MSA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
tert-Butyl alcohol	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Diisopropyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tert-butyl ethyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5J200408
MB Lot-Sample #: M5J220000-011

Analysis Date..: 10/21/05
Dilution Factor: 1

Work Order #...: HN0971AA

Prep Date.....: 10/21/05
Prep Batch #...: 5295011

Analyst ID.....: 402431

Matrix.....: AIR

Analysis Time..: 09:52
Instrument ID..: GC7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
TPH (as Gasoline)	ND	1.0	ppm(v/v)	EPA-19 TO-3

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5J200408 Work Order #...: HNNJ71AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5J260000-696 HNNJ71AD-LCSD
Prep Date.....: 10/21/05 Analysis Date..: 10/21/05
Prep Batch #...: 5299696 Analysis Time..: 09:26
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Toluene	93	(75 - 125)			EPA-21 TO-14A
	92	(75 - 125)	1.6	(0-20)	EPA-21 TO-14A

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 #...: E5J200408 Work Order #...: HNNJ71AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5J260000-696 HNNJ71AD-LCSD
Prep Date.....: 10/21/05 Analysis Date..: 10/21/05
Prep Batch #...: 5299696 Analysis Time..: 09:26
Dilution Factor: 1 Instrument ID..: MSA
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Toluene	0.0500	0.0465	ppm(v/v)	93		EPA-21 TO-14A
	0.0500	0.0458	ppm(v/v)	92	1.6	EPA-21 TO-14A

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 #...: E5J200408 Work Order #...: HN0971AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5J220000-011 HN0971AD-LCSD
Prep Date.....: 10/21/05 Analysis Date..: 10/21/05
Prep Batch #...: 5295011 Analysis Time..: 08:09
Dilution Factor: 1 Instrument ID..: GC7
Analyst ID.....: 402431

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	94	(75 - 125)			EPA-19 TO-3
	93	(75 - 125)	1.2	(0-20)	EPA-19 TO-3

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 #...: E5J200408 Work Order #...: HN0971AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5J220000-011 HN0971AD-LCSD
Prep Date.....: 10/21/05 Analysis Date..: 10/21/05
Prep Batch #...: 5295011 Analysis Time..: 08:09
Dilution Factor: 1 Instrument ID..: GC7
Analyst ID.....: 402431

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	10.7	10.0	ppm(v/v)	94		EPA-19 TO-3
	10.7	9.93	ppm(v/v)	93	1.2	EPA-19 TO-3

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

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

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

October 31, 2005

STL LOT NUMBER: **E5J210301**
PO/CONTRACT: 4711TRC009

John Nordenstam
TRC
21 Technology Drive
Irvine, CA 92718

Dear John Nordenstam,

This report contains the analytical results for the two samples received under chain of custody by STL Los Angeles on October 21, 2005. These samples are associated with your CONOCOPHILLIPS SITE#0353 project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA / E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000019 pages.

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

Sincerely,

Beth Riley
Project Manager

cc: Project File

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: TRC	Project Manager: John Nordenstan (949) 283-4754 TRC	Date: 10/21/05	Chain of Custody Number: 217180
Address: 21 Technology Dr.	Telephone Number (Area Code)/Fax Number: (949) 283-5448 Gabe Formola	Lab Number: ESJ 210301	Page 1 of 1
City: Irvine Ca. State: Ca Zip Code:	Site Contact: PAT Loyn (949) 283-4865	Lab Contact: Beth Riley	
Project Name and Location (State): 76 Conoco Phillips II 0353 Glendale Ca. 91204 2005. Centralized	Carrier/Waybill Number: work order # 4711 TRC 009		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tedlar	THS EPA method TO-3	BTEX EPA Method TO-14	DXgnates MTBE, DIPE	TBA, EPA	MEETAOBS TO-14	Special Instructions/ Conditions of Receipt
MW-1A	10/21/05	8:00 AM											X	X	X				Call John N.
MW-3A	10/21/05	8:00 AM											X	X	X				(949) 283-4754

000002

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 1 month)

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

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	10/21/05	9:00 AM	1. Received By: Vincent Padilla	10/21/05	1211
2. Relinquished By: Vincent Padilla	10/21/05	1255	2. Received By: [signature]	102105	1255
3. Relinquished By			3. Received By		

Comments: 5,

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

SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

PROJECT NO. GLENDALE, CA

CONOCOPHILLIPS SITE#0353

Lot #: E5J210301

John Nordenstam

TRC

SEVERN TRENT LABORATORIES, INC.

Beth Riley
Project Manager

October 31, 2005

EXECUTIVE SUMMARY - Detection Highlights

E5J210301

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-1A 10/21/05 08:00 001				
TPH (as Gasoline)	8.4	1.0	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	0.22	0.0050	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.52	0.0050	ppm(v/v)	EPA-21 TO-14A
Toluene	0.30	0.012	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	2.0	0.0050	ppm(v/v)	EPA-21 TO-14A
MW-3A 10/21/05 08:00 002				
TPH (as Gasoline)	3.8	1.0	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	0.072	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.18	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	0.081	0.0050	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	0.69	0.0020	ppm(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E5J210301

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
TPH by TO-3	EPA-19 TO-3	
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

EPA-19 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA/600/4-89/017, January 1988

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E5J210301

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HNCH1	001	MW-1A	10/21/05	08:00
HNCH7	002	MW-3A	10/21/05	08:00

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.

TRC

Client Sample ID: MW-1A

GC/MS Volatiles

Lot-Sample #...:	E5J210301-001	**Work Order #...:**	HNCH11AC	**Matrix.....:**	V
Date Sampled...:	10/21/05 08:00	**Date Received..:**	10/21/05 12:55	**MS Run #.....:**	
Prep Date.....:	10/21/05	**Analysis Date..:**	10/21/05		
Prep Batch #...:	5300242	**Analysis Time..:**	17:31		
Dilution Factor:	2.5				
Analyst ID.....:	117751	**Instrument ID..:**	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0050	ppm(v/v)	0.0020
tert-Butyl alcohol	ND	0.025	ppm(v/v)	0.0050
Diisopropyl ether	ND	0.0050	ppm(v/v)	0.0010
Tert-amyl methyl ether	ND	0.0050	ppm(v/v)	0.0010
Tert-butyl ethyl ether	ND	0.0050	ppm(v/v)	0.00050
Ethylbenzene	**0.22**	**0.0050**	**ppm(v/v)**	**0.0012**
Methyl tert-butyl ether (MTBE)	**0.52**	**0.0050**	**ppm(v/v)**	**0.0012**
Toluene	**0.30**	**0.012**	**ppm(v/v)**	**0.0012**
Xylenes (total)	**2.0**	**0.0050**	**ppm(v/v)**	**0.0025**

TRC

Client Sample ID: MW-1A

GC Volatiles

Lot-Sample #...:	E5J210301-001	Work Order #...:	HNCH11AA	Matrix.....:	V
Date Sampled...:	10/21/05 08:00	Date Received..:	10/21/05 12:55	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5295011	Analysis Time..:	21:42		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	8.4	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: MW-3A

GC/MS Volatiles

Lot-Sample #...:	E5J210301-002	Work Order #...:	HNCH71AC	Matrix.....:	V
Date Sampled...:	10/21/05 08:00	Date Received..:	10/21/05 12:55	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5300242	Analysis Time..:	18:07		
Dilution Factor:	1				
Analyst ID.....:	117751	Instrument ID..:	MSA		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0020	ppm(v/v)	0.00080
tert-Butyl alcohol	ND	0.010	ppm(v/v)	0.0020
Diisopropyl ether	ND	0.0020	ppm(v/v)	0.00040
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	0.00040
Tert-butyl ethyl ether	ND	0.0020	ppm(v/v)	0.00020
Ethylbenzene	**0.072**	**0.0020**	**ppm(v/v)**	**0.00050**
Methyl tert-butyl ether (MTBE)	**0.18**	**0.0020**	**ppm(v/v)**	**0.00050**
Toluene	**0.081**	**0.0050**	**ppm(v/v)**	**0.00050**
Xylenes (total)	**0.69**	**0.0020**	**ppm(v/v)**	**0.0010**

TRC

Client Sample ID: MW-3A

GC Volatiles

Lot-Sample #...:	E5J210301-002	Work Order #...:	HNCH71AA	Matrix.....:	V
Date Sampled...:	10/21/05 08:00	Date Received..:	10/21/05 12:55	MS Run #.....:	
Prep Date.....:	10/21/05	Analysis Date..:	10/21/05		
Prep Batch #...:	5295011	Analysis Time..:	22:14		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	3.8	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5J210301

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	V	EPA-19 TO-3		5295011	
	V	EPA-21 TO-14A		5300242	
002	V	EPA-19 TO-3		5295011	
	V	EPA-21 TO-14A		5300242	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5J210301
MB Lot-Sample #: M5J270000-242

Work Order #...: HNP5H1AA

Matrix.....: AIR

Prep Date.....: 10/21/05
Prep Batch #...: 5300242

Analysis Time..: 10:59
Instrument ID..: MSA

Analysis Date..: 10/21/05
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
tert-Butyl alcohol	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Diisopropyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tert-butyl ethyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
Xylenes (total)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5J210301
MB Lot-Sample #: M5J220000-011

Work Order #...: HN0971AA

Matrix.....: AIR

Prep Date.....: 10/21/05
Prep Batch #...: 5295011

Analysis Time..: 09:52
Instrument ID..: GC7

Analysis Date..: 10/21/05
Dilution Factor: 1

Analyst ID.....: 402431

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
TPH (as Gasoline)	ND	1.0	ppm(v/v)	EPA-19 TO-3

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5J210301 **Work Order #...:** HNP5H1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5J270000-242 HNP5H1AD-LCSD
Prep Date.....: 10/21/05 **Analysis Date..:** 10/21/05
Prep Batch #...: 5300242 **Analysis Time..:** 09:26
Dilution Factor: 1 **Instrument ID..:** MSA
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Toluene	**93**	**(75 - 125)**			**EPA-21 TO-14A**
	92	**(75 - 125)**	**1.6**	**(0-20)**	**EPA-21 TO-14A**

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 #...: E5J210301 **Work Order #...:** HNP5H1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5J270000-242 HNP5H1AD-LCSD
Prep Date.....: 10/21/05 **Analysis Date..:** 10/21/05
Prep Batch #...: 5300242 **Analysis Time..:** 09:26
Dilution Factor: 1 **Instrument ID..:** MSA
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Toluene	**0.0500**	**0.0465**	**ppm(v/v)**	**93**		**EPA-21 TO-14A**
	0.0500	**0.0458**	**ppm(v/v)**	**92**	**1.6**	**EPA-21 TO-14A**

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 #...: E5J210301 **Work Order #...:** HN0971AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5J220000-011 HN0971AD-LCSD
Prep Date.....: 10/21/05 **Analysis Date..:** 10/21/05
Prep Batch #...: 5295011 **Analysis Time..:** 08:09
Dilution Factor: 1 **Instrument ID..:** GC7
Analyst ID.....: 402431

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**94**	**(75 - 125)**			**EPA-19 TO-3**
	93	**(75 - 125)**	**1.2**	**(0-20)**	**EPA-19 TO-3**

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 #...: E5J210301
LCS Lot-Sample#: M5J220000-011
Prep Date.....: 10/21/05
Prep Batch #...: 5295011
Dilution Factor: 1
Analyst ID.....: 402431

Work Order #...: HN0971AC-LCS
HN0971AD-LCSD
Analysis Date..: 10/21/05
Analysis Time..: 08:09
Instrument ID..: GC7

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**10.7**	**10.0**	**ppm(v/v)**	**94**		**EPA-19 TO-3**
	10.7	**9.93**	**ppm(v/v)**	**93**	**1.2**	**EPA-19 TO-3**

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

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

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

November 25, 2005

STL LOT NUMBER: **E5K160431**
PO/CONTRACT: 4711TRC009

John Nordenstam
TRC
21 Technology Drive
Irvine, CA 92718

Dear John Nordenstam,

This report contains the analytical results for the six samples received under chain of custody by STL Los Angeles on November 16, 2005. These samples are associated with your CONOCOPHILLIPS SITE #0353 project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA / E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000026 pages.

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

Sincerely,

Beth Riley
Project Manager

cc: Project File

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

ESK160431

Client: Conoco Phillips / TRC	Project Manager: JOHN NORDENSTAM	Date: 11/15/05	Chain of Custody Number: 179864
Address: 21 TECHNOLOGY DR.	Telephone Number (Area Code)/Fax Number: 949-753 0101 / 949-753 0111	Lab Number	Page 1 of 1
City: IRVINE; State: CA; Zip Code: 92618	Site Contact: DAVID YORK	Lab Contact: BETH RILEY	
Project Name and Location (State): FORMER 76 STATION #0353, 200 S. CONTINENTAL AVE, GLENDORA, CA.	Carrier/Waybill Number: GEOTRACKER NO. T060372 8619		
Contract/Purchase Order/Quote No.: WORK ORDER NO. 4711TRC009			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	X-Tolulene	TPH-G BTEX	BTEX, MTBE, ETBE, DIPE, TAME, TBA	Special Instructions/ Conditions of Receipt
VW-1A (0353)	11/15/05	1500	X					X						X	X	X	
VW-2A (0353)	11/15/05	1500	X					X						X	X	X	
VW-3A (0353)	11/15/05	1500	X					X						X	X	X	
VW-1A (0353)	11/15/05	2100	X					X						X	X	X	
VW-2A (0353)	11/15/05	21:00	X					X						X	X	X	
VW-3A (0353)	11/15/05	21:00	X					X						X	X	X	

Analysis (Attach list if more space is needed): BTEX, MTBE, ETBE, DIPE, TAME, TBA

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 1 month)

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	11/16/05	0955	1. Received By: Vincent Padilla	11/16/05	0955
2. Relinquished By: Vincent Padilla	11/16/05	1035	2. Received By	11/16/05	1035
3. Relinquished By			3. Received By		

Comments

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

000002

SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

PROJECT NO. GLENDALE, CA

CONOCOPHILLIPS SITE#0353

Lot #: E5K160431

John Nordenstam

TRC

SEVERN TRENT LABORATORIES, INC.

Beth Riley
Project Manager

November 23, 2005

EXECUTIVE SUMMARY - Detection Highlights

E5K160431

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
VW-1A (0353) 11/15/05 15:00 001				
TPH (as Gasoline)	100	1.0	ppm(v/v)	EPA-19 TO-3
Benzene	0.072	0.067	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	2.1	0.067	ppm(v/v)	EPA-21 TO-14A
Toluene	2.6	0.17	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	11	0.067	ppm(v/v)	EPA-21 TO-14A
o-Xylene	5.2	0.067	ppm(v/v)	EPA-21 TO-14A
VW-2A (0353) 11/15/05 15:00 002				
TPH (as Gasoline)	110	8.8	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	2.0	0.067	ppm(v/v)	EPA-21 TO-14A
Toluene	2.3	0.17	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	12	0.067	ppm(v/v)	EPA-21 TO-14A
o-Xylene	6.0	0.067	ppm(v/v)	EPA-21 TO-14A
VW-3A (0353) 11/15/05 15:00 003				
TPH (as Gasoline)	97	8.8	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	1.9	0.067	ppm(v/v)	EPA-21 TO-14A
Toluene	2.1	0.17	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	11	0.067	ppm(v/v)	EPA-21 TO-14A
o-Xylene	5.3	0.067	ppm(v/v)	EPA-21 TO-14A
VW-1A (0353) 11/15/05 21:00 004				
TPH (as Gasoline)	92	8.8	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	2.0	0.067	ppm(v/v)	EPA-21 TO-14A
Toluene	2.1	0.17	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	12	0.067	ppm(v/v)	EPA-21 TO-14A
o-Xylene	5.9	0.067	ppm(v/v)	EPA-21 TO-14A
VW-2A (0353) 11/15/05 21:00 005				
TPH (as Gasoline)	96	8.8	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	1.8	0.067	ppm(v/v)	EPA-21 TO-14A
Toluene	2.1	0.17	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	12	0.067	ppm(v/v)	EPA-21 TO-14A
o-Xylene	6.2	0.067	ppm(v/v)	EPA-21 TO-14A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5K160431

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
VW-3A (0353) 11/15/05 21:00 006				
TPH (as Gasoline)	92	8.8	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	1.8	0.067	ppm(v/v)	EPA-21 TO-14A
Toluene	1.6	0.17	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	11	0.067	ppm(v/v)	EPA-21 TO-14A
o-Xylene	6.0	0.067	ppm(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E5K160431

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
TPH by TO-3	EPA-19 TO-3	
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

EPA-19 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA/600/4-89/017, January 1988

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E5K160431

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HQDEX	001	VW-1A (0353)	11/15/05	15:00
HQDE2	002	VW-2A (0353)	11/15/05	15:00
HQDE4	003	VW-3A (0353)	11/15/05	15:00
HQDE5	004	VW-1A (0353)	11/15/05	21:00
HQDE6	005	VW-2A (0353)	11/15/05	21:00
HQDE7	006	VW-3A (0353)	11/15/05	21:00

NOTE(S):

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- 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.

TRC

Client Sample ID: VW-1A (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K160431-001	**Work Order #...:**	HQDEX1AC	**Matrix.....:**	V
Date Sampled...:	11/15/05 15:00	**Date Received..:**	11/16/05 10:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326569	**Analysis Time..:**	19:49		
Dilution Factor:	33.33				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.072**	**0.067**	**ppm(v/v)**	**0.027**
tert-Butyl alcohol	ND	0.33	ppm(v/v)	0.067
Diisopropyl ether	ND	0.067	ppm(v/v)	0.013
Tert-amyl methyl ether	ND	0.067	ppm(v/v)	0.013
Tert-butyl ethyl ether	ND	0.067	ppm(v/v)	0.0067
Ethylbenzene	**2.1**	**0.067**	**ppm(v/v)**	**0.017**
Methyl tert-butyl ether (MTBE)	ND	0.067	ppm(v/v)	0.017
Toluene	**2.6**	**0.17**	**ppm(v/v)**	**0.017**
m-Xylene & p-Xylene	**11**	**0.067**	**ppm(v/v)**	**0.033**
o-Xylene	**5.2**	**0.067**	**ppm(v/v)**	**0.020**

TRC

Client Sample ID: VW-1A (0353)

GC Volatiles

Lot-Sample #...:	E5K160431-001	Work Order #...:	HQDEX1AA	Matrix.....:	V
Date Sampled...:	11/15/05 15:00	Date Received..:	11/16/05 10:35	MS Run #.....:	
Prep Date.....:	11/17/05	Analysis Date..:	11/17/05		
Prep Batch #...:	5321685	Analysis Time..:	00:37		
Dilution Factor:	1				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	100	1.0	ppm(v/v)	0.30

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-2A (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K160431-002	**Work Order #...:**	HQDE21AC	**Matrix.....:**	V
Date Sampled...:	11/15/05 15:00	**Date Received..:**	11/16/05 10:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326569	**Analysis Time..:**	20:26		
Dilution Factor:	33.33				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.067	ppm(v/v)	0.027
tert-Butyl alcohol	ND	0.33	ppm(v/v)	0.067
Diisopropyl ether	ND	0.067	ppm(v/v)	0.013
Tert-amyl methyl ether	ND	0.067	ppm(v/v)	0.013
Tert-butyl ethyl ether	ND	0.067	ppm(v/v)	0.0067
Ethylbenzene	**2.0**	**0.067**	**ppm(v/v)**	**0.017**
Methyl tert-butyl ether (MTBE)	ND	0.067	ppm(v/v)	0.017
Toluene	**2.3**	**0.17**	**ppm(v/v)**	**0.017**
m-Xylene & p-Xylene	**12**	**0.067**	**ppm(v/v)**	**0.033**
o-Xylene	**6.0**	**0.067**	**ppm(v/v)**	**0.020**

TRC

Client Sample ID: VW-2A (0353)

GC Volatiles

Lot-Sample #...: E5K160431-002 Work Order #...: HQDE21AA Matrix.....: V
Date Sampled...: 11/15/05 15:00 Date Received..: 11/16/05 10:35 MS Run #.....:
Prep Date.....: 11/17/05 Analysis Date..: 11/17/05
Prep Batch #...: 5321685 Analysis Time..: 00:58
Dilution Factor: 8.8
Analyst ID.....: 402431 Instrument ID..: GC7
Method.....: EPA-19 TO-3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	110	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-3A (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K160431-003	**Work Order #...:**	HQDE41AC	**Matrix.....:**	V
Date Sampled...:	11/15/05 15:00	**Date Received..:**	11/16/05 10:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326569	**Analysis Time..:**	21:04		
Dilution Factor:	33.33				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.067	ppm(v/v)	0.027
tert-Butyl alcohol	ND	0.33	ppm(v/v)	0.067
Diisopropyl ether	ND	0.067	ppm(v/v)	0.013
Tert-amyl methyl ether	ND	0.067	ppm(v/v)	0.013
Tert-butyl ethyl ether	ND	0.067	ppm(v/v)	0.0067
Ethylbenzene	**1.9**	**0.067**	**ppm(v/v)**	**0.017**
Methyl tert-butyl ether (MTBE)	ND	0.067	ppm(v/v)	0.017
Toluene	**2.1**	**0.17**	**ppm(v/v)**	**0.017**
m-Xylene & p-Xylene	**11**	**0.067**	**ppm(v/v)**	**0.033**
o-Xylene	**5.3**	**0.067**	**ppm(v/v)**	**0.020**

TRC

Client Sample ID: VW-3A (0353)

GC Volatiles

Lot-Sample #...:	E5K160431-003	Work Order #...:	HQDE41AA	Matrix.....:	V
Date Sampled...:	11/15/05 15:00	Date Received..:	11/16/05 10:35	MS Run #.....:	
Prep Date.....:	11/17/05	Analysis Date..:	11/17/05		
Prep Batch #...:	5321685	Analysis Time..:	01:18		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	97	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-1A (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K160431-004	**Work Order #...:**	HQDE51AC	**Matrix.....:**	V
Date Sampled...:	11/15/05 21:00	**Date Received..:**	11/16/05 10:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326569	**Analysis Time..:**	21:41		
Dilution Factor:	33.33				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.067	ppm(v/v)	0.027
tert-Butyl alcohol	ND	0.33	ppm(v/v)	0.067
Diisopropyl ether	ND	0.067	ppm(v/v)	0.013
Tert-amyl methyl ether	ND	0.067	ppm(v/v)	0.013
Tert-butyl ethyl ether	ND	0.067	ppm(v/v)	0.0067
Ethylbenzene	**2.0**	**0.067**	**ppm(v/v)**	**0.017**
Methyl tert-butyl ether (MTBE)	ND	0.067	ppm(v/v)	0.017
Toluene	**2.1**	**0.17**	**ppm(v/v)**	**0.017**
m-Xylene & p-Xylene	**12**	**0.067**	**ppm(v/v)**	**0.033**
o-Xylene	**5.9**	**0.067**	**ppm(v/v)**	**0.020**

TRC

Client Sample ID: VW-1A (0353)

GC Volatiles

Lot-Sample #...:	E5K160431-004	Work Order #...:	HQDE51AA	Matrix.....:	V
Date Sampled...:	11/15/05 21:00	Date Received..:	11/16/05 10:35	MS Run #.....:	
Prep Date.....:	11/17/05	Analysis Date..:	11/17/05		
Prep Batch #...:	5321685	Analysis Time..:	01:39		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	92	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-2A (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K160431-005	**Work Order #...:**	HQDE61AC	**Matrix.....:**	V
Date Sampled...:	11/15/05 21:00	**Date Received..:**	11/16/05 10:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326569	**Analysis Time..:**	22:20		
Dilution Factor:	33.33				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.067	ppm(v/v)	0.027
tert-Butyl alcohol	ND	0.33	ppm(v/v)	0.067
Diisopropyl ether	ND	0.067	ppm(v/v)	0.013
Tert-amyl methyl ether	ND	0.067	ppm(v/v)	0.013
Tert-butyl ethyl ether	ND	0.067	ppm(v/v)	0.0067
Ethylbenzene	**1.8**	**0.067**	**ppm(v/v)**	**0.017**
Methyl tert-butyl ether (MTBE)	ND	0.067	ppm(v/v)	0.017
Toluene	**2.1**	**0.17**	**ppm(v/v)**	**0.017**
m-Xylene & p-Xylene	**12**	**0.067**	**ppm(v/v)**	**0.033**
o-Xylene	**6.2**	**0.067**	**ppm(v/v)**	**0.020**

TRC

Client Sample ID: VW-2A (0353)

GC Volatiles

Lot-Sample #...:	E5K160431-005	Work Order #...:	HQDE61AA	Matrix.....:	V
Date Sampled...:	11/15/05 21:00	Date Received..:	11/16/05 10:35	MS Run #.....:	
Prep Date.....:	11/17/05	Analysis Date..:	11/17/05		
Prep Batch #...:	5321685	Analysis Time..:	01:59		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	96	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-3A (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K160431-006	**Work Order #...:**	HQDE71AC	**Matrix.....:**	V
Date Sampled...:	11/15/05 21:00	**Date Received..:**	11/16/05 10:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326569	**Analysis Time..:**	22:57		
Dilution Factor:	33.33				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.067	ppm(v/v)	0.027
tert-Butyl alcohol	ND	0.33	ppm(v/v)	0.067
Diisopropyl ether	ND	0.067	ppm(v/v)	0.013
Tert-amyl methyl ether	ND	0.067	ppm(v/v)	0.013
Tert-butyl ethyl ether	ND	0.067	ppm(v/v)	0.0067
Ethylbenzene	**1.8**	**0.067**	**ppm(v/v)**	**0.017**
Methyl tert-butyl ether (MTBE)	ND	0.067	ppm(v/v)	0.017
Toluene	**1.6**	**0.17**	**ppm(v/v)**	**0.017**
m-Xylene & p-Xylene	**11**	**0.067**	**ppm(v/v)**	**0.033**
o-Xylene	**6.0**	**0.067**	**ppm(v/v)**	**0.020**

TRC

Client Sample ID: VW-3A (0353)

GC Volatiles

Lot-Sample #...:	E5K160431-006	Work Order #...:	HQDE71AA	Matrix.....:	V
Date Sampled...:	11/15/05 21:00	Date Received..:	11/16/05 10:35	MS Run #.....:	
Prep Date.....:	11/17/05	Analysis Date..:	11/17/05		
Prep Batch #...:	5321685	Analysis Time..:	02:20		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	92	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5K160431

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	V	EPA-19 TO-3		5321685	
	V	EPA-21 TO-14A		5326569	
002	V	EPA-19 TO-3		5321685	
	V	EPA-21 TO-14A		5326569	
003	V	EPA-19 TO-3		5321685	
	V	EPA-21 TO-14A		5326569	
004	V	EPA-19 TO-3		5321685	
	V	EPA-21 TO-14A		5326569	
005	V	EPA-19 TO-3		5321685	
	V	EPA-21 TO-14A		5326569	
006	V	EPA-19 TO-3		5321685	
	V	EPA-21 TO-14A		5326569	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5K160431
MB Lot-Sample #: M5K220000-569

Analysis Date..: 11/17/05
Dilution Factor: 1

Work Order #...: HQRR81AA

Prep Date.....: 11/17/05
Prep Batch #...: 5326569

Analyst ID.....: 117751

Matrix.....: AIR

Analysis Time..: 11:02
Instrument ID..: MSB

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
tert-Butyl alcohol	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Diisopropyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tert-butyl ethyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
o-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5K160431
MB Lot-Sample #: M5K170000-685
Work Order #...: HQNQ61AA
Matrix.....: AIR

Prep Date.....: 11/17/05
Analysis Time..: 00:17

Analysis Date..: 11/17/05
Prep Batch #...: 5321685
Instrument ID..: GC7

Dilution Factor: 1

Analyst ID.....: 402431

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
TPH (as Gasoline)	ND	1.0	ppm(v/v)	EPA-19 TO-3

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5K160431 **Work Order #...:** HQRR81AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M5K220000-569 HQRR81AD-LCSD
Prep Date.....: 11/17/05 **Analysis Date..:** 11/17/05
Prep Batch #...: 5326569 **Analysis Time..:** 09:53
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Toluene	**0.0500**	**0.0488**	**ppm(v/v)**	**98**		**EPA-21 TO-14A**
	0.0500	**0.0490**	**ppm(v/v)**	**98**	**0.40**	**EPA-21 TO-14A**

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 #...: E5K160431 Work Order #...: HQNQ61AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5K170000-685 HQNQ61AD-LCSD
Prep Date.....: 11/16/05 Analysis Date..: 11/16/05
Prep Batch #...: 5321685 Analysis Time..: 22:15
Dilution Factor: 1 Instrument ID..: GC7
Analyst ID.....: 402431

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**10.7**	**9.87**	**ppm(v/v)**	**92**		**EPA-19 TO-3**
	10.7	**9.88**	**ppm(v/v)**	**92**	**0.10**	**EPA-19 TO-3**

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

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

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

November 25, 2005

STL LOT NUMBER: **E5K150320**
PO/CONTRACT: 4711TRC009

John Nordenstam
TRC
21 Technology Drive
Irvine, CA 92718

Dear John Nordenstam,

This report contains the analytical results for the 12 samples received under chain of custody by STL Los Angeles on November 15, 2005. These samples are associated with your CONOCOPHILLIPS SITE#0353 project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA / E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000036 pages.

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

Sincerely,

Beth Riley
Project Manager

cc: Project File

LOT NUMBER E5K150320

Nonconformance 05-14738

Affected Samples:
E5K150320 (5): VW-2B (0353)
E5K150320 (6): VW-3B (0353)

Affected Methods:
None specified.

Details:
The Tedlar bags were received at the laboratory flat. No back-up bag was provided.

Corrective Action:
Samples were not analyzed.

[redacted]

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

ESK150320

Client: Conoco Phillips / TRC	Project Manager: JOHN NORDENSTAM	Date: 11/15/05	Chain of Custody Number: 179865
Address: 21 TECHNOLOGY DR	Telephone Number (Area Code)/Fax Number: 949-753-0101 /	Lab Number	Page ____ of ____
City: IRVINE; State: CA; Zip Code	Site Contact: DAVID YORK	Lab Contact: BETH RILEY	
Project Name and Location (State): FORMER 76 STATION #0353 (CA) 2005 CENTRAL AVE, GLENDALE CA	Carrier/Waybill Number: GEOTRACKER NO. T060372869		
Contract/Purchase Order/Quote No./Work Order No.: 471TRC009			

Analysis (Attach list if more space is needed): TPH-G BY 8015; (BTEX/OXYS TO 1H); (MTBE, ETBE, DIIPE, TBA, TAME, TBA)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	HCl/NaO2	TPH-G BY 8015	(BTEX/OXYS TO 1H)	(MTBE, ETBE, DIIPE, TBA, TAME, TBA)	Special Instructions/ Conditions of Receipt
VW-1B (0353)	11/14/05	0900	X				X						X	X	X		
VW-2B (0353)	11/14/05	0900	X				X						X	X	X		
VW-3B (0353)	11/14/05	0900	X				X						X	X	X		
VW-1B (0353)	11/14/05	2000	X				X						X	X	X		
VW-2B (0353)	11/14/05	2000	X				X						X	X	X		
VW-3B (0353)	11/14/05	2000	X				X						X	X	X		
VW-1B (0353)	11/15/05	0830	X				X						X	X	X		
VW-2B (0353)	11/15/05	0830	X				X						X	X	X		
VW-3B (0353)	11/15/05	0830	X				X						X	X	X		
VW-1A (0353)	11/15/05	0930	X				X						X	X	X		
VW-2A (0353)	11/15/05	0930	X				X						X	X	X		
VW-3A (0353)	11/15/05	0930	X				X						X	X	X		

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

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

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]	11/15/05	1005	1. Received By: Vincent Padilla	11/15/05	1005
2. Relinquished By: Vincent Padilla	11/15/05	1135	2. Received By: [signature]	11/15/05	1135
3. Relinquished By			3. Received By		

Comments

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

000003

SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

PROJECT NO. GLENDALE, CA

CONOCOPHILLIPS SITE#0353

Lot #: E5K150320

John Nordenstam

TRC

SEVERN TRENT LABORATORIES, INC.

Beth Riley
Project Manager

November 23, 2005

EXECUTIVE SUMMARY - Detection Highlights

E5K150320

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
VW-1B (0353) 11/14/05 09:00 001				
TPH (as Gasoline)	190	8.8	ppm(v/v)	EPA-19 TO-3
Benzene	0.16	0.10	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	2.0	0.10	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.31	0.10	ppm(v/v)	EPA-21 TO-14A
Toluene	5.1	0.25	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	12	0.10	ppm(v/v)	EPA-21 TO-14A
o-Xylene	4.4	0.10	ppm(v/v)	EPA-21 TO-14A
VW-2B (0353) 11/14/05 09:00 002				
TPH (as Gasoline)	220	8.8	ppm(v/v)	EPA-19 TO-3
Benzene	0.26	0.10	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	2.4	0.10	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.74	0.10	ppm(v/v)	EPA-21 TO-14A
Toluene	7.3	0.25	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	14	0.10	ppm(v/v)	EPA-21 TO-14A
o-Xylene	5.3	0.10	ppm(v/v)	EPA-21 TO-14A
VW-3B (0353) 11/14/05 09:00 003				
TPH (as Gasoline)	230	8.8	ppm(v/v)	EPA-19 TO-3
Benzene	0.25	0.10	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	2.9	0.10	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.57	0.10	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	14	0.10	ppm(v/v)	EPA-21 TO-14A
o-Xylene	5.3	0.10	ppm(v/v)	EPA-21 TO-14A
VW-1B (0353) 11/14/05 20:00 004				
TPH (as Gasoline)	150	8.8	ppm(v/v)	EPA-19 TO-3
Benzene	0.16	0.10	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	3.0	0.10	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.48	0.10	ppm(v/v)	EPA-21 TO-14A
Toluene	7.3	0.25	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	15	0.10	ppm(v/v)	EPA-21 TO-14A
o-Xylene	6.1	0.10	ppm(v/v)	EPA-21 TO-14A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5K150320

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
VW-1B (0353) 11/15/05 08:30 007				
TPH (as Gasoline)	160	8.8	ppm(v/v)	EPA-19 TO-3
Benzene	0.12	0.10	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	3.2	0.10	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.52	0.10	ppm(v/v)	EPA-21 TO-14A
Toluene	6.6	0.25	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	16	0.10	ppm(v/v)	EPA-21 TO-14A
o-Xylene	6.3	0.10	ppm(v/v)	EPA-21 TO-14A
VW-2B (0353) 11/15/05 08:30 008				
TPH (as Gasoline)	170	8.8	ppm(v/v)	EPA-19 TO-3
Benzene	0.13	0.10	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	3.2	0.10	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.70	0.10	ppm(v/v)	EPA-21 TO-14A
Toluene	6.9	0.25	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	16	0.10	ppm(v/v)	EPA-21 TO-14A
o-Xylene	6.4	0.10	ppm(v/v)	EPA-21 TO-14A
VW-3B (0353) 11/15/05 08:30 009				
TPH (as Gasoline)	170	8.8	ppm(v/v)	EPA-19 TO-3
Benzene	0.10	0.10	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	2.9	0.10	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	0.69	0.10	ppm(v/v)	EPA-21 TO-14A
Toluene	6.4	0.25	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	14	0.10	ppm(v/v)	EPA-21 TO-14A
o-Xylene	5.8	0.10	ppm(v/v)	EPA-21 TO-14A
VW-1A (0353) 11/15/05 09:30 010				
TPH (as Gasoline)	120	8.8	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	2.1	0.10	ppm(v/v)	EPA-21 TO-14A
Toluene	3.0	0.25	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	11	0.10	ppm(v/v)	EPA-21 TO-14A
o-Xylene	4.8	0.10	ppm(v/v)	EPA-21 TO-14A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5K150320

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
VW-2A (0353) 11/15/05 09:30 011				
TPH (as Gasoline)	110	8.8	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	1.7	0.067	ppm(v/v)	EPA-21 TO-14A
Toluene	2.4	0.17	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	9.6	0.067	ppm(v/v)	EPA-21 TO-14A
o-Xylene	4.7	0.067	ppm(v/v)	EPA-21 TO-14A
VW-3A (0353) 11/15/05 09:30 012				
TPH (as Gasoline)	100	8.8	ppm(v/v)	EPA-19 TO-3
Ethylbenzene	1.9	0.067	ppm(v/v)	EPA-21 TO-14A
Toluene	2.6	0.17	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	9.7	0.067	ppm(v/v)	EPA-21 TO-14A
o-Xylene	4.5	0.067	ppm(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E5K150320

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
TPH by TO-3	EPA-19 TO-3	
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

EPA-19 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA/600/4-89/017, January 1988

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E5K150320

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HP8RX	001	VW-1B (0353)	11/14/05	09:00
HP8TG	002	VW-2B (0353)	11/14/05	09:00
HP8TJ	003	VW-3B (0353)	11/14/05	09:00
HP8TK	004	VW-1B (0353)	11/14/05	20:00
HP8TQ	007	VW-1B (0353)	11/15/05	08:30
HP8TV	008	VW-2B (0353)	11/15/05	08:30
HP8T0	009	VW-3B (0353)	11/15/05	08:30
HP8T1	010	VW-1A (0353)	11/15/05	09:30
HP8T4	011	VW-2A (0353)	11/15/05	09:30
HP8T5	012	VW-3A (0353)	11/15/05	09:30

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.

TRC

Client Sample ID: VW-1B (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K150320-001	**Work Order #...:**	HP8RX1AC	**Matrix.....:**	V
Date Sampled...:	11/14/05 09:00	**Date Received..:**	11/15/05 11:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326436	**Analysis Time..:**	01:28		
Dilution Factor:	50				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.16**	**0.10**	**ppm(v/v)**	**0.040**
tert-Butyl alcohol	ND	0.50	ppm(v/v)	0.10
Diisopropyl ether	ND	0.10	ppm(v/v)	0.020
Tert-amyl methyl ether	ND	0.10	ppm(v/v)	0.020
Tert-butyl ethyl ether	ND	0.10	ppm(v/v)	0.010
Ethylbenzene	**2.0**	**0.10**	**ppm(v/v)**	**0.025**
Methyl tert-butyl ether (MTBE)	**0.31**	**0.10**	**ppm(v/v)**	**0.025**
Toluene	**5.1**	**0.25**	**ppm(v/v)**	**0.025**
m-Xylene & p-Xylene	**12**	**0.10**	**ppm(v/v)**	**0.050**
o-Xylene	**4.4**	**0.10**	**ppm(v/v)**	**0.030**

TRC

Client Sample ID: VW-1B (0353)

GC Volatiles

Lot-Sample #...:	E5K150320-001	Work Order #...:	HP8RX1AA	Matrix.....:	V
Date Sampled...:	11/14/05 09:00	Date Received..:	11/15/05 11:35	MS Run #.....:	
Prep Date.....:	11/15/05	Analysis Date..:	11/15/05		
Prep Batch #...:	5321638	Analysis Time..:	23:28		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	190	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-2B (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K150320-002	**Work Order #...:**	HP8TG1AC	**Matrix.....:**	V
Date Sampled...:	11/14/05 09:00	**Date Received..:**	11/15/05 11:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326436	**Analysis Time..:**	02:05		
Dilution Factor:	50				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.26**	**0.10**	**ppm(v/v)**	**0.040**
tert-Butyl alcohol	ND	0.50	ppm(v/v)	0.10
Diisopropyl ether	ND	0.10	ppm(v/v)	0.020
Tert-amyl methyl ether	ND	0.10	ppm(v/v)	0.020
Tert-butyl ethyl ether	ND	0.10	ppm(v/v)	0.010
Ethylbenzene	**2.4**	**0.10**	**ppm(v/v)**	**0.025**
Methyl tert-butyl ether (MTBE)	**0.74**	**0.10**	**ppm(v/v)**	**0.025**
Toluene	**7.3**	**0.25**	**ppm(v/v)**	**0.025**
m-Xylene & p-Xylene	**14**	**0.10**	**ppm(v/v)**	**0.050**
o-Xylene	**5.3**	**0.10**	**ppm(v/v)**	**0.030**

TRC

Client Sample ID: VW-2B (0353)

GC Volatiles

Lot-Sample #...:	E5K150320-002	Work Order #...:	HP8TG1AA	Matrix.....:	V
Date Sampled...:	11/14/05 09:00	Date Received..:	11/15/05 11:35	MS Run #.....:	
Prep Date.....:	11/15/05	Analysis Date..:	11/15/05		
Prep Batch #...:	5321638	Analysis Time..:	21:19		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	220	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-3B (0353)

GC/MS Volatiles

Lot-Sample #...: E5K150320-003 **Work Order #...:** HP8TJ1AC **Matrix.....:** V
Date Sampled...: 11/14/05 09:00 **Date Received..:** 11/15/05 11:35 **MS Run #.....:**
Prep Date.....: 11/17/05 **Analysis Date..:** 11/17/05
Prep Batch #...: 5326436 **Analysis Time..:** 02:41
Dilution Factor: 50
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.25**	**0.10**	**ppm(v/v)**	**0.040**
tert-Butyl alcohol	ND	0.50	ppm(v/v)	0.10
Diisopropyl ether	ND	0.10	ppm(v/v)	0.020
Tert-amyl methyl ether	ND	0.10	ppm(v/v)	0.020
Tert-butyl ethyl ether	ND	0.10	ppm(v/v)	0.010
Ethylbenzene	**2.9**	**0.10**	**ppm(v/v)**	**0.025**
Methyl tert-butyl ether (MTBE)	**0.57**	**0.10**	**ppm(v/v)**	**0.025**
Toluene	ND	0.25	ppm(v/v)	0.025
m-Xylene & p-Xylene	**14**	**0.10**	**ppm(v/v)**	**0.050**
o-Xylene	**5.3**	**0.10**	**ppm(v/v)**	**0.030**

TRC

Client Sample ID: VW-3B (0353)

GC Volatiles

Lot-Sample #...:	E5K150320-003	Work Order #...:	HP8TJ1AA	Matrix.....:	V
Date Sampled...:	11/14/05 09:00	Date Received..:	11/15/05 11:35	MS Run #.....:	
Prep Date.....:	11/15/05	Analysis Date..:	11/15/05		
Prep Batch #...:	5321638	Analysis Time..:	23:49		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	230	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-1B (0353)

GC/MS Volatiles

Lot-Sample #...: E5K150320-004 Work Order #...: HP8TK1AC Matrix.....: V
Date Sampled...: 11/14/05 20:00 Date Received..: 11/15/05 11:35 MS Run #.....:
Prep Date.....: 11/17/05 Analysis Date..: 11/17/05
Prep Batch #...: 5326436 Analysis Time..: 03:18
Dilution Factor: 50
Analyst ID.....: 117751 Instrument ID..: MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.16**	**0.10**	**ppm(v/v)**	**0.040**
tert-Butyl alcohol	ND	0.50	ppm(v/v)	0.10
Diisopropyl ether	ND	0.10	ppm(v/v)	0.020
Tert-amyl methyl ether	ND	0.10	ppm(v/v)	0.020
Tert-butyl ethyl ether	ND	0.10	ppm(v/v)	0.010
Ethylbenzene	**3.0**	**0.10**	**ppm(v/v)**	**0.025**
Methyl tert-butyl ether (MTBE)	**0.48**	**0.10**	**ppm(v/v)**	**0.025**
Toluene	**7.3**	**0.25**	**ppm(v/v)**	**0.025**
m-Xylene & p-Xylene	**15**	**0.10**	**ppm(v/v)**	**0.050**
o-Xylene	**6.1**	**0.10**	**ppm(v/v)**	**0.030**

TRC

Client Sample ID: VW-1B (0353)

GC Volatiles

Lot-Sample #...:	E5K150320-004	Work Order #...:	HP8TK1AA	Matrix.....:	V
Date Sampled...:	11/14/05 20:00	Date Received..:	11/15/05 11:35	MS Run #.....:	
Prep Date.....:	11/15/05	Analysis Date..:	11/15/05		
Prep Batch #...:	5321638	Analysis Time..:	23:04		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	150	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-1B (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K150320-007	**Work Order #...:**	HP8TQ1AC	**Matrix.....:**	V
Date Sampled...:	11/15/05 08:30	**Date Received..:**	11/15/05 11:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326436	**Analysis Time..:**	03:55		
Dilution Factor:	50				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.12**	**0.10**	**ppm(v/v)**	**0.040**
tert-Butyl alcohol	ND	0.50	ppm(v/v)	0.10
Diisopropyl ether	ND	0.10	ppm(v/v)	0.020
Tert-amyl methyl ether	ND	0.10	ppm(v/v)	0.020
Tert-butyl ethyl ether	ND	0.10	ppm(v/v)	0.010
Ethylbenzene	**3.2**	**0.10**	**ppm(v/v)**	**0.025**
Methyl tert-butyl ether (MTBE)	**0.52**	**0.10**	**ppm(v/v)**	**0.025**
Toluene	**6.6**	**0.25**	**ppm(v/v)**	**0.025**
m-Xylene & p-Xylene	**16**	**0.10**	**ppm(v/v)**	**0.050**
o-Xylene	**6.3**	**0.10**	**ppm(v/v)**	**0.030**

TRC

Client Sample ID: VW-1B (0353)

GC Volatiles

Lot-Sample #...:	E5K150320-007	Work Order #...:	HP8TQ1AA	Matrix.....:	V
Date Sampled...:	11/15/05 08:30	Date Received..:	11/15/05 11:35	MS Run #.....:	
Prep Date.....:	11/15/05	Analysis Date..:	11/15/05		
Prep Batch #...:	5321638	Analysis Time..:	22:43		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	160	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-2B (0353)

GC/MS Volatiles

Lot-Sample #...: E5K150320-008 Work Order #...: HP8TV1AC Matrix.....: V
Date Sampled...: 11/15/05 08:30 Date Received..: 11/15/05 11:35 MS Run #.....:
Prep Date.....: 11/17/05 Analysis Date..: 11/17/05
Prep Batch #...: 5326436 Analysis Time..: 04:31
Dilution Factor: 50
Analyst ID.....: 117751 Instrument ID..: MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	0.13	0.10	ppm(v/v)	0.040
tert-Butyl alcohol	ND	0.50	ppm(v/v)	0.10
Diisopropyl ether	ND	0.10	ppm(v/v)	0.020
Tert-amyl methyl ether	ND	0.10	ppm(v/v)	0.020
Tert-butyl ethyl ether	ND	0.10	ppm(v/v)	0.010
Ethylbenzene	3.2	0.10	ppm(v/v)	0.025
Methyl tert-butyl ether (MTBE)	0.70	0.10	ppm(v/v)	0.025
Toluene	6.9	0.25	ppm(v/v)	0.025
m-Xylene & p-Xylene	16	0.10	ppm(v/v)	0.050
o-Xylene	6.4	0.10	ppm(v/v)	0.030

TRC

Client Sample ID: VW-2B (0353)

GC Volatiles

Lot-Sample #...:	E5K150320-008	Work Order #...:	HP8TV1AA	Matrix.....:	V
Date Sampled...:	11/15/05 08:30	Date Received..:	11/15/05 11:35	MS Run #.....:	
Prep Date.....:	11/15/05	Analysis Date..:	11/15/05		
Prep Batch #...:	5321638	Analysis Time..:	20:58		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	170	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-3B (0353)

GC/MS Volatiles

Lot-Sample #...: E5K150320-009 Work Order #...: HP8T01AC Matrix.....: V
Date Sampled...: 11/15/05 08:30 Date Received..: 11/15/05 11:35 MS Run #.....:
Prep Date.....: 11/17/05 Analysis Date..: 11/17/05
Prep Batch #...: 5326436 Analysis Time..: 05:08
Dilution Factor: 50
Analyst ID.....: 117751 Instrument ID..: MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.10**	**0.10**	**ppm(v/v)**	**0.040**
tert-Butyl alcohol	ND	0.50	ppm(v/v)	0.10
Diisopropyl ether	ND	0.10	ppm(v/v)	0.020
Tert-amyl methyl ether	ND	0.10	ppm(v/v)	0.020
Tert-butyl ethyl ether	ND	0.10	ppm(v/v)	0.010
Ethylbenzene	**2.9**	**0.10**	**ppm(v/v)**	**0.025**
Methyl tert-butyl ether (MTBE)	**0.69**	**0.10**	**ppm(v/v)**	**0.025**
Toluene	**6.4**	**0.25**	**ppm(v/v)**	**0.025**
m-Xylene & p-Xylene	**14**	**0.10**	**ppm(v/v)**	**0.050**
o-Xylene	**5.8**	**0.10**	**ppm(v/v)**	**0.030**

TRC

Client Sample ID: VW-3B (0353)

GC Volatiles

Lot-Sample #...:	E5K150320-009	Work Order #...:	HP8T01AA	Matrix.....:	V
Date Sampled...:	11/15/05 08:30	Date Received..:	11/15/05 11:35	MS Run #.....:	
Prep Date.....:	11/15/05	Analysis Date..:	11/15/05		
Prep Batch #...:	5321638	Analysis Time..:	22:23		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	170	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-1A (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K150320-010	**Work Order #...:**	HP8T11AC	**Matrix.....:**	V
Date Sampled...:	11/15/05 09:30	**Date Received..:**	11/15/05 11:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326436	**Analysis Time..:**	05:44		
Dilution Factor:	50				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.10	ppm(v/v)	0.040
tert-Butyl alcohol	ND	0.50	ppm(v/v)	0.10
Diisopropyl ether	ND	0.10	ppm(v/v)	0.020
Tert-amyl methyl ether	ND	0.10	ppm(v/v)	0.020
Tert-butyl ethyl ether	ND	0.10	ppm(v/v)	0.010
Ethylbenzene	**2.1**	**0.10**	**ppm(v/v)**	**0.025**
Methyl tert-butyl ether (MTBE)	ND	0.10	ppm(v/v)	0.025
Toluene	**3.0**	**0.25**	**ppm(v/v)**	**0.025**
m-Xylene & p-Xylene	**11**	**0.10**	**ppm(v/v)**	**0.050**
o-Xylene	**4.8**	**0.10**	**ppm(v/v)**	**0.030**

TRC

Client Sample ID: VW-1A (0353)

GC Volatiles

Lot-Sample #...:	E5K150320-010	Work Order #...:	HP8T11AA	Matrix.....:	V
Date Sampled...:	11/15/05 09:30	Date Received..:	11/15/05 11:35	MS Run #.....:	
Prep Date.....:	11/15/05	Analysis Date..:	11/15/05		
Prep Batch #...:	5321638	Analysis Time..:	22:02		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	120	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-2A (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K150320-011	**Work Order #...:**	HP8T41AC	**Matrix.....:**	V
Date Sampled...:	11/15/05 09:30	**Date Received..:**	11/15/05 11:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326436	**Analysis Time..:**	06:14		
Dilution Factor:	33.33				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.067	ppm(v/v)	0.027
tert-Butyl alcohol	ND	0.33	ppm(v/v)	0.067
Diisopropyl ether	ND	0.067	ppm(v/v)	0.013
Tert-amyl methyl ether	ND	0.067	ppm(v/v)	0.013
Tert-butyl ethyl ether	ND	0.067	ppm(v/v)	0.0067
Ethylbenzene	**1.7**	**0.067**	**ppm(v/v)**	**0.017**
Methyl tert-butyl ether (MTBE)	ND	0.067	ppm(v/v)	0.017
Toluene	**2.4**	**0.17**	**ppm(v/v)**	**0.017**
m-Xylene & p-Xylene	**9.6**	**0.067**	**ppm(v/v)**	**0.033**
o-Xylene	**4.7**	**0.067**	**ppm(v/v)**	**0.020**

TRC

Client Sample ID: VW-2A (0353)

GC Volatiles

Lot-Sample #...:	E5K150320-011	Work Order #...:	HP8T41AA	Matrix.....:	V
Date Sampled...:	11/15/05 09:30	Date Received..:	11/15/05 11:35	MS Run #.....:	
Prep Date.....:	11/15/05	Analysis Date..:	11/15/05		
Prep Batch #...:	5321638	Analysis Time..:	20:35		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	110	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

TRC

Client Sample ID: VW-3A (0353)

GC/MS Volatiles

Lot-Sample #...:	E5K150320-012	**Work Order #...:**	HP8T51AC	**Matrix.....:**	V
Date Sampled...:	11/15/05 09:30	**Date Received..:**	11/15/05 11:35	**MS Run #.....:**	
Prep Date.....:	11/17/05	**Analysis Date..:**	11/17/05		
Prep Batch #...:	5326436	**Analysis Time..:**	06:45		
Dilution Factor:	33.33				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-21 TO-14A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.067	ppm(v/v)	0.027
tert-Butyl alcohol	ND	0.33	ppm(v/v)	0.067
Diisopropyl ether	ND	0.067	ppm(v/v)	0.013
Tert-amyl methyl ether	ND	0.067	ppm(v/v)	0.013
Tert-butyl ethyl ether	ND	0.067	ppm(v/v)	0.0067
Ethylbenzene	**1.9**	**0.067**	**ppm(v/v)**	**0.017**
Methyl tert-butyl ether (MTBE)	ND	0.067	ppm(v/v)	0.017
Toluene	**2.6**	**0.17**	**ppm(v/v)**	**0.017**
m-Xylene & p-Xylene	**9.7**	**0.067**	**ppm(v/v)**	**0.033**
o-Xylene	**4.5**	**0.067**	**ppm(v/v)**	**0.020**

TRC

Client Sample ID: VW-3A (0353)

GC Volatiles

Lot-Sample #...:	E5K150320-012	Work Order #...:	HP8T51AA	Matrix.....:	V
Date Sampled...:	11/15/05 09:30	Date Received..:	11/15/05 11:35	MS Run #.....:	
Prep Date.....:	11/15/05	Analysis Date..:	11/15/05		
Prep Batch #...:	5321638	Analysis Time..:	21:41		
Dilution Factor:	8.8				
Analyst ID.....:	402431	Instrument ID..:	GC7		
		Method.....:	EPA-19 TO-3		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH (as Gasoline)	100	8.8	ppm(v/v)	2.6

NOTE(S):

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5K150320

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	V	EPA-19 TO-3		5321638	
	V	EPA-21 TO-14A		5326436	
002	V	EPA-19 TO-3		5321638	
	V	EPA-21 TO-14A		5326436	
003	V	EPA-19 TO-3		5321638	
	V	EPA-21 TO-14A		5326436	
004	V	EPA-19 TO-3		5321638	
	V	EPA-21 TO-14A		5326436	
007	V	EPA-19 TO-3		5321638	
	V	EPA-21 TO-14A		5326436	
008	V	EPA-19 TO-3		5321638	
	V	EPA-21 TO-14A		5326436	
009	V	EPA-19 TO-3		5321638	
	V	EPA-21 TO-14A		5326436	
010	V	EPA-19 TO-3		5321638	
	V	EPA-21 TO-14A		5326436	
011	V	EPA-19 TO-3		5321638	
	V	EPA-21 TO-14A		5326436	
012	V	EPA-19 TO-3		5321638	
	V	EPA-21 TO-14A		5326436	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5K150320
MB Lot-Sample #: M5K220000-436

Work Order #...: HQQ8F1AA

Matrix.....: AIR

Prep Date.....: 11/17/05

Analysis Time..: 00:51

Analysis Date..: 11/17/05

Prep Batch #...: 5326436

Instrument ID..: MSB

Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
tert-Butyl alcohol	ND	0.010	ppm(v/v)	EPA-21 TO-14A
Diisopropyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tert-amyl methyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Tert-butyl ethyl ether	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
Toluene	ND	0.0050	ppm(v/v)	EPA-21 TO-14A
m-Xylene & p-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A
o-Xylene	ND	0.0020	ppm(v/v)	EPA-21 TO-14A

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E5K150320
MB Lot-Sample #: M5K170000-638

Work Order #...: HQN131AA

Matrix.....: AIR

Prep Date.....: 11/15/05

Analysis Time..: 19:48

Analysis Date..: 11/15/05

Prep Batch #...: 5321638

Instrument ID..: GC7

Dilution Factor: 1

Analyst ID.....: 402431

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
TPH (as Gasoline)	ND	1.0	ppm(v/v)	EPA-19 TO-3

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5K150320 Work Order #...: HQQ8F1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5K220000-436 HQQ8F1AD-LCSD
Prep Date.....: 11/16/05 Analysis Date..: 11/16/05
Prep Batch #...: 5326436 Analysis Time..: 23:38
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Toluene	0.0495	0.0453	ppm(v/v)	92		EPA-21 TO-14A
	0.0495	0.0458	ppm(v/v)	92	1.0	EPA-21 TO-14A

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 #...: E5K150320 Work Order #...: HQN131AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M5K170000-638 HQN131AD-LCSD
Prep Date.....: 11/15/05 Analysis Date..: 11/15/05
Prep Batch #...: 5321638 Analysis Time..: 18:05
Dilution Factor: 1 Instrument ID..: GC7
Analyst ID.....: 402431

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	10.7	9.66	ppm(v/v)	90		EPA-19 TO-3
	10.7	9.53	ppm(v/v)	89	1.4	EPA-19 TO-3

NOTE(S):

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

Bold print denotes control parameters

APPENDIX E

GENERAL FIELD PROCEDURES AND BORING LOGS

GENERAL FIELD PROCEDURES

The following is a description of general field procedures used during drilling, and soil and groundwater sampling activities.

DRILLING AND SOIL SAMPLING

Soil borings are drilled using continuous-flight, hollow-stem augers. Borings that are not completed as monitoring wells are grouted to within 5 feet of the ground surface with a cement/bentonite slurry. The remaining 5 feet is filled with concrete.

Soil samples are obtained for soil description, field hydrocarbon vapor screening, and possible laboratory analysis. Soil samples are retrieved from the borings by one of two methods: 1) continuously, using a 5-foot-long, continuous-core barrel sampler advanced into the soil with the lead auger, or 2) at 2.5- or 5-foot intervals, using a standard split-spoon sampler without sample rings. The split-spoon sampler is driven approximately 18 inches beyond the lead auger with a 140-pound hammer dropped from a height of 30 inches.

During drilling activities, soil adjacent to the laboratory sample is screened for combustible vapors using a combustible gas indicator (CGI) or equivalent field instrument. For each hydrocarbon vapor screening event, a 6-inch-long by 2.5-inch-diameter sample insert is filled approximately 1/3 full with the soil sample, capped at both ends, and shaken. The probe is then inserted through a small opening in the cap, and a reading is taken after approximately 15 seconds and recorded on the boring log. The remaining soil recovered is removed from the sample insert or sampler, and described in accordance with the Unified Soil Classification System. For each sampling interval, field estimates of soil type, density/consistency, moisture, color, and grading are recorded on the boring logs.

SOIL SAMPLE HANDLING

Upon retrieval, soil samples selected for laboratory analysis are immediately collected from the split spoon sampler (using the Encore™ sampling system) in accordance with EPA Method 5035. Each sample is labeled with the project number, boring/well number, sample depth, geologist's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they are placed in a cooler with ice at approximately 4 degrees Celsius (^{o}C) prior to and during transport to a state-certified laboratory for analysis.

MONITORING WELL INSTALLATION

Monitoring wells are typically constructed of 4-inch-diameter, flush-threaded Schedule 40 PVC blank and screened (0.020-inch slot size) casing. Where possible, the screened interval will extend at least 10 feet above, and 10 to 20 feet below, the top of the groundwater table. The annular space surrounding the screened casing is backfilled with No. 3 Monterey sand (filter pack) to approximately 2 feet above the top of the screened section.

During well construction, the filter pack is completed by surging with a rig-mounted surge block. A 3-foot-thick bentonite annular seal is placed above the filter pack. The remaining annular space is grouted with Portland cement and/or bentonite grout to the surface. Utility access boxes are installed slightly above grade. Locking, watertight caps are installed to prevent unauthorized access to the well, and limit infiltration of surface fluids.

FLUID LEVEL MONITORING

Fluid levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city bench mark.

GROUNDWATER PURGING AND SAMPLING

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of groundwater prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is either pumped directly into a licensed vacuum truck or temporarily stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number,

sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

CHAIN OF CUSTODY PROTOCOL

Chain of custody protocol is followed for all soil and groundwater samples selected for laboratory analysis. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis.

DECONTAMINATION

Drilling and Soil Sampling

Drilling equipment is decontaminated by steam cleaning before being brought onsite. The augers are also steam cleaned before each new boring is commenced. Prior to use, the sampler and sampling tubes are brush-scrubbed in a Liqui-nox and potable water solution and rinsed twice in clean potable water. Sampling equipment and tubes are also decontaminated before each sample is collected to avoid cross-contamination between borings.

Groundwater Sampling

Purging and sampling equipment that could contact well fluids is either dedicated to a particular well or cleaned prior to each use in a Liqui-nox solution followed by two tap water rinses.

LITHOLOGY
(UNIFIED SOILS CLASSIFICATION SYSTEM)

MAJOR DIVISIONS			TYPICAL NAMES	
COARSE-GRAINED SOILS (MORE THAN HALF IS LARGER THAN No. 200 SIEVE)	GRAVELS (MORE THAN HALF COARSE FRACTION IS LARGER THAN No. 4 SIEVE SIZE)	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
			GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES
		GRAVELS WITH OVER 12% FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
			GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SANDS (MORE THAN HALF COARSE FRACTION IS SMALLER THAN No. 4 SIEVE SIZE)	CLEAN SANDS WITH LITTLE OR NO FINES	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH OVER 12% FINES	SM	SILTY SANDS, SAND-SILT MIXTURES
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE-GRAINED SOILS (MORE THAN HALF IS SMALLER THAN No. 200 SIEVE)	SILTS AND CLAYS (LIQUID LIMIT LESS THAN 50)		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW- TO MEDIUM-PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS (LIQUID LIMIT GREATER THAN 50)		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM- TO HIGH-PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			Pt	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

SYMBOLS AND NOTES

- SAMPLE INTERVAL
- SAMPLE NOT RECOVERED
- CONCRETE
- BENTONITE CHIPS
- COATED BENTONITE PELLETS
- VOLCLAY or BENTONITE GROUT
- FILTER SAND PACK
- WATER LEVEL ENCOUNTERED WHEN DRILLING
- STATIC WATER LEVEL

CLAST SIZE (Field Classification)

Gravel = >0.2 inches
Sand = 0.003 - 0.2 inches
Silt = <0.003 (not plastic)
Clay = <0.003 (plastic)

DESCRIPTORS

Trace = 1% - 5%
Some = 6% - 10%
With = 11% - 25%
-ly = 26% - 40%
And = >40%

SANDS

4-10 blows per foot = Loose
10-30 blows per foot = Medium Dense
30-50 blows per foot = Dense
>50 blows per foot = Very Dense

SILTS & CLAYS

2-4 blows per foot = Soft
4-8 blows per foot = Medium Stiff
8-15 blows per foot = Stiff
15-30 blows per foot = Very Stiff
>30 blows per foot = Hard

USCS = Unified Soil Classification System
ppm = Parts Per Million (mg/kg)

PID = Photoionization Detector
CGI = Combustible Gas Indicator

TRC

KEY TO BORING LOG

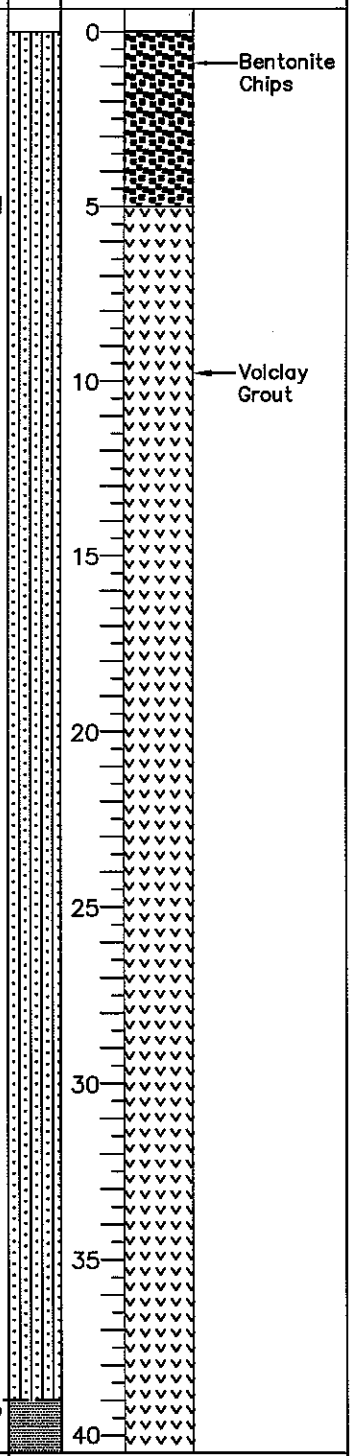
PROJECT NO.: 20-0948	DATE DRILLED: December 5, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
			0		
17/11	2.0		5	SILTY SAND: moderate brown (5YR 3/4), medium dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel, trace clay.	SM
--	--		10		
10/10/12	2.5		15	Trace coarse gravel.	
11/17/21	0.3		20		
14/18/20	0.8		25	Moderate brown (5YR 4/4), dense, no medium-grained sand.	
14/14/21	0.0		30	Pale brown (5Y 5/2), fine- to medium-grained sand, no gravel.	
50 for 6"	0.7		35	Moderate brown (5YR 4/4), very dense, medium-grained, trace coarse-grained sand, trace fine and coarse gravel.	
			40		SP

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-1

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-1.DWG Jan 30, 2006 - 12:51pm rdsantos

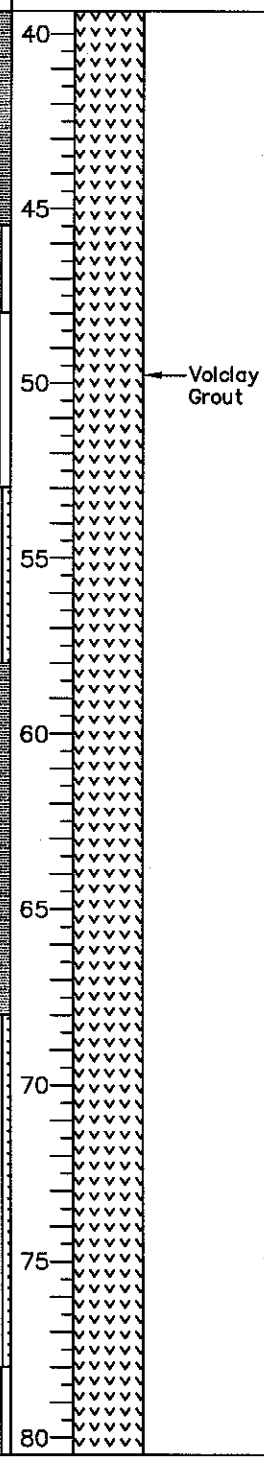
PROJECT NO.: 20-0948	DATE DRILLED: December 5, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
27/28/30	6.0	X	40	SAND: pale yellowish brown (10YR 6/2), very dense, moist, medium-grained, trace fine and coarse gravel, trace cobble, trace clay.	SP
15/17/18	>1,999		45	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, fine-grained sand, trace clay.	ML
12/14/15	>1,999		50	SILTY SAND/SANDY SILT: light brown (5YR 5/6), medium dense, moist, medium-grained, trace clay.	SM/ ML
7/10/12	170		55	SILTY SAND: moderate brown (5YR 4/4), medium dense, moist, fine-grained, trace clay.	SM
14/17/22	150	X	60	SAND: light brown (5YR 5/6), dense, moist, medium-grained, some coarse-grained sand, trace clay.	SP
16/18/20	180	X	65	With coarse gravel, some cobble, trace clay.	
10/10/14	836	X	70	SILTY SAND: moderate brown (5YR 4/4), medium dense, moist, fine-grained, trace clay.	SM
11/11/14	270	X	75	Trace fine and coarse gravel.	
			80		ML

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-1

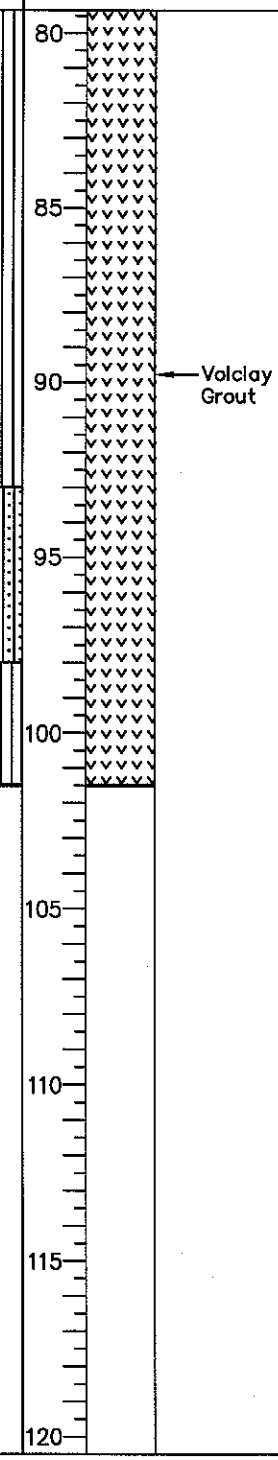
PROJECT NO.: 20-0948	DATE DRILLED: December 5, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
16/17/20	60.1		80	SANDY SILT: moderate brown (5YR 3/4), very stiff, moist, fine-grained sand, trace clay.	ML
17/18/21	40.4		85		
17/18/18	56.5		90	Trace clay.	
16/16/16	70.5		95	SILTY SAND: dark yellowish brown (10YR 4/2), dense, moist, fine-grained, some medium-grained sand, trace clay.	SM
50 for 6"	25.5		100	SILTY SAND/SANDY SILT: moderate brown (5YR 4/4), very dense, moist, medium-grained, trace clay.	SM/ML
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-1

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-1.DWG Jan 30, 2006 - 11:39am rdsantos

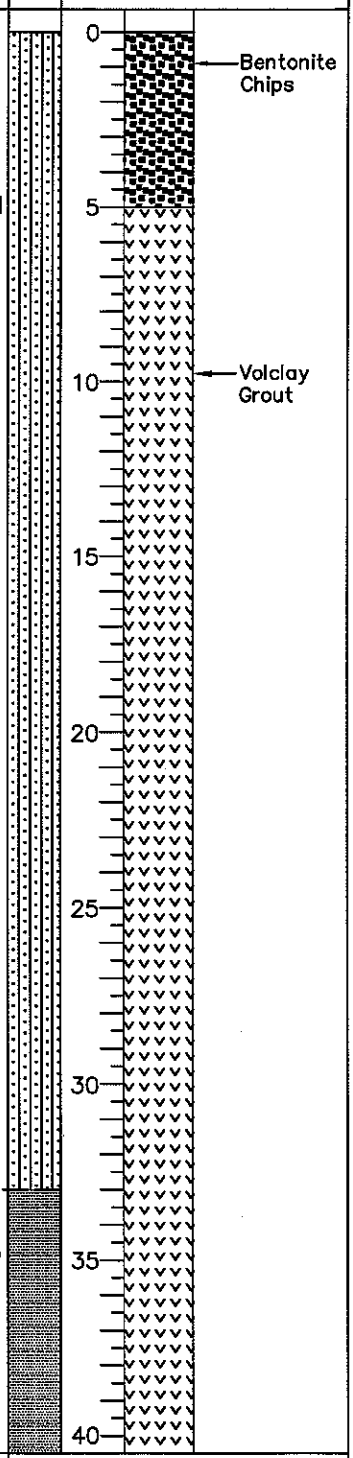
PROJECT NO.: 20–0948	DATE DRILLED: December 5, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME–85

DRILLING METHOD: 8–inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5–inch California Modified Split Spoon
TOTAL DEPTH: 42.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
7/8/9	50.5	X	5	SILTY SAND: moderate brown (5YR 4/4), medium dense, moist, fine-grained, trace medium-grained sand, trace coarse gravel and clay.	SM
7/7/10	12.7	X	10		
10/10/10	6.4	X	15		
50 for 6"	8.1	X	20	Very dense.	
50 for 6"	6.2	X	25		
50 for 6"	6.5	X	30		
11/12/14	--	X	35	SAND: light brown (5YR 6/4), medium dense, moist, medium-grained, trace fine and coarse gravel, trace clay.	SP
			40		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-2

L:\Graphics\ProjectsByNumber\20–xxxx\20–0800_\20–0948_76#0353\Boring Logs\CB–2.DWG Jan 30, 2006 – 11:43am rdsantos

PROJECT NO.: 20-0948	DATE DRILLED: December 5, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 42.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
7/7/8	5.1		40	Refusal at approximately 42 feet.	SP		Volclay Grout
			45				
			50				
			55				
			60				
			65				
			70				
			75				
			80				

TRC

LOG OF EXPLORATORY BORING

CB-2

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-2.DWG Jan 30, 2006 - 12:52pm rdsantos

PROJECT NO.: 20-0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: 101 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
			0				0 Bentonite Chips
			5	No soil samples collected from 5 to 45-feet below grade.			5
			10				10 Volclay Grout
			15				15
			20				20
			25				25
			30				30
			35				35
			40				40

TRC

LOG OF EXPLORATORY BORING

CB-2A

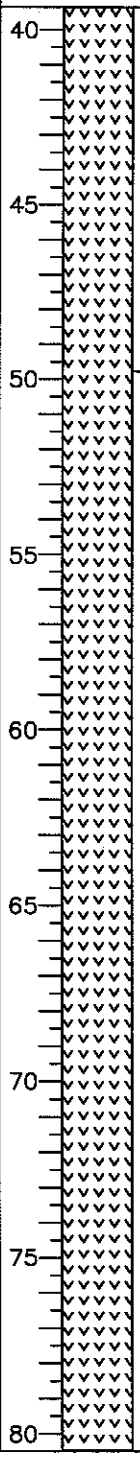
PROJECT NO.: 20-0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: 101 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
17/18/24	11.7	X	45	SANDY SILT: grayish olive (10Y 4/2), stiff, moist, fine-grained sand, trace clay.	ML
18/20/30	1.7	X	50	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace fine gravel and clay.	SM
25/36/40	4.0	X	55	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, medium-grained sand, trace fine-grained sand and gravel, trace clay.	ML
50 for 6"	1.2	X	60	SAND: dark yellowish orange (10YR 6/6), dense, moist, medium-grained, trace fine-grained sand, trace fine gravel and clay.	SP
50 for 6"	3.9	X	65	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
14/17/28	4.1		70		
26/28/34	5.5		75	SANDY SILT: moderate yellowish brown (10YR 5/4), hard, moist, fine-grained sand, trace clay.	ML
			80		SM

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



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LOG OF EXPLORATORY BORING

CB-2A

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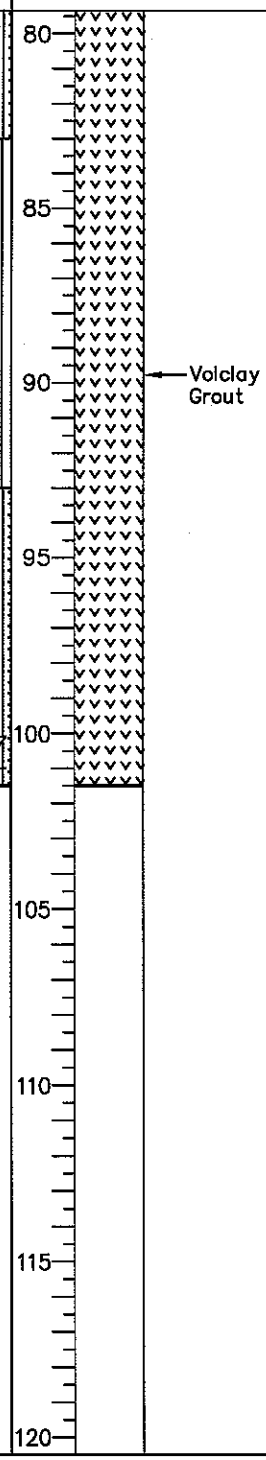
PROJECT NO.: 20–0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME–85

DRILLING METHOD: 8–inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5–inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: 101 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
19/21/36	5.6		80	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace clay.	SM
25/28/32	2.5		85	SANDY SILT: moderate yellowish brown (10YR 5/4), hard, moist, fine grained sand, some clay.	ML
22/26/34	6.6		90	Trace clay.	
13/16/28	1.9		95	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, very moist, fine-grained, trace clay.	SM
16/22/34	0.8		100	Wet.	
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



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LOG OF EXPLORATORY BORING

CB-2A

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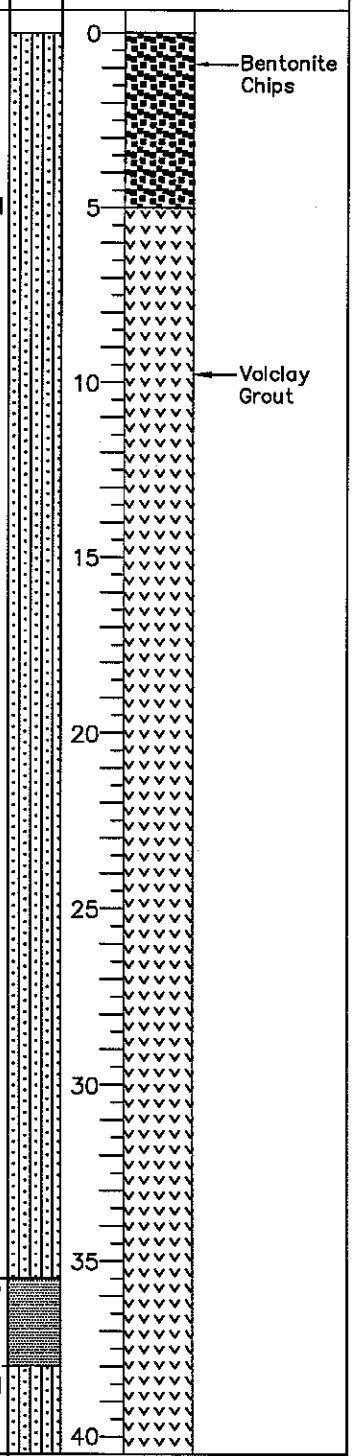
PROJECT NO.: 20-0948	DATE DRILLED: December 5 and 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
			0		
10/10/12	2.7		5	SILTY SAND: moderate brown (5YR 3/4), medium dense, moist, fine-grained, trace fine gravel, trace clay.	SM
6/8/10	3.1		10	Trace fine and coarse gravel.	
10/12/14	2.4		15		
28/50	3.2		20	Very dense.	
50 for 6"	4.1		25		
50 for 6"	3.3		30		
50 for 6"	2.0		35	SAND: light brown (5YR 6/4), very dense, moist, medium-grained, trace fine and coarse gravel, trace clay.	SP
					SM
			40		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



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LOG OF EXPLORATORY BORING

CB-3

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-3.DWG Jan 30, 2006 - 12:21pm rdsantos

PROJECT NO.: 20-0948	DATE DRILLED: December 5 and 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
28/50	1.3	X	40	SILTY SAND: moderate brown (5YR 4/4) very dense, moist, fine-grained, trace clay.	SM
				SAND: pale yellowish brown (10YR 6/2), very dense, moist, fine-grained, trace coarse gravel, trace clay.	SP
50 for 12"	3.2	X	45	SILTY SAND: moderate brown (5YR 3/4), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
30/50	20.0	X	50	SANDY SILT: moderate brown (5Y 4/4), hard, moist, fine-grained sand, trace clay.	ML
22/23/36	374		55	SILTY SAND: moderate brown (5YR 3/4), very dense, moist, fine-grained, trace clay.	SM
50 for 6"	17.1	X	60	SAND: light brown (5YR 6/4), very dense, moist, medium-grained, trace fine and coarse gravel, trace clay.	SP
50 for 6"	30.8	X	65		
50 for 6"	4.6	X	70	Moderate brown (5YR 4/4), fine-grained.	
20/26/38	10.9		75	SILTY SAND: dark yellowish brrown (10YR 4/2), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
			80		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

CB-3

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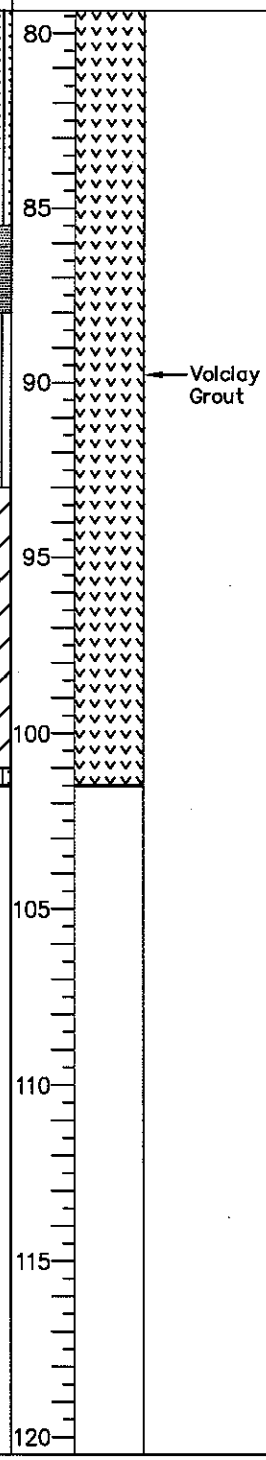
PROJECT NO.: 20–0948	DATE DRILLED: December 5 and 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME–85

DRILLING METHOD: 8–inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5–inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
29/30/34	26.1		80	Moderate brown (5YR 4/4).	SM
50 for 6"	10.6		85	SAND: light brown (5YR 6/4), very dense, moist, fine-grained, trace clay.	SP
20/26/30	51.2		90	SANDY SILT: moderate brown (5YR 3/4), hard, moist, fine-grained sand, trace clay.	ML
19/28/30	56.4		95	CLAYEY SILT: moderate brown (5YR 4/4), hard, moist.	CL
18/20/24	42.8		100	SILTY SAND: moderate brown (5YR 3/4), dense, wet, fine-grained, trace clay.	SM
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



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LOG OF EXPLORATORY BORING

CB-3

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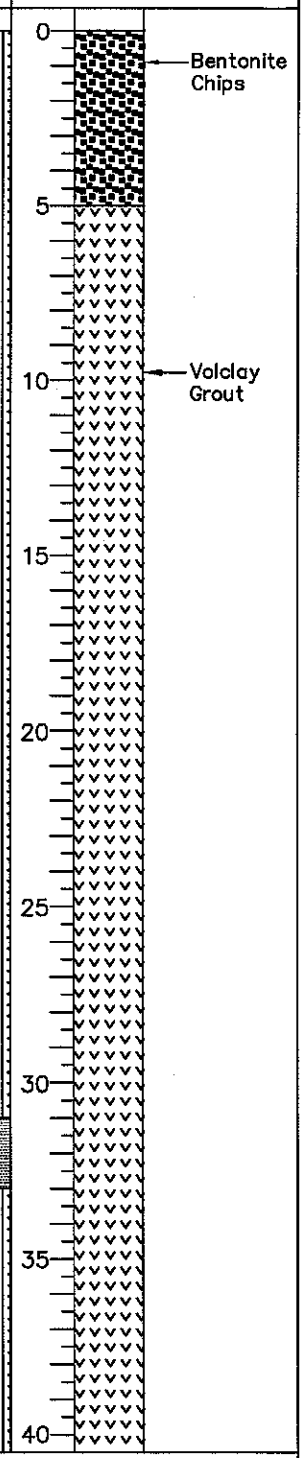
PROJECT NO.: 20-0948	DATE DRILLED: December 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
50 for 6"	4.0	X	5	SILTY SAND: moderate brown (5YR 4/4), very dense, moist, fine-grained, some coarse-grained sand, trace fine-grained sand, trace fine and coarse gravel, trace clay.	SM
50 for 6"	3.6	X	10		
50 for 6"	4.1	X	15	Trace cobble.	
50 for 6"	5.5	X	20	No cobble.	
50 for 6"	8.2	X	25	Trace cobble.	
17/22/32	76.9		30	SAND: light brown (5YR 6/4), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SP
50 for 6"	>1,999	X	35	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel, trace clay.	SM
			40		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



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LOG OF EXPLORATORY BORING

CB-4

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PROJECT NO.: 20-0948	DATE DRILLED: December 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
			40	Moderate brown (5YR 4/4).	SM
28/50	>1,999			SAND: pale yellowish brown (10YR 6/2), very dense, moist, medium-grained, trace fine and coarse gravel.	SP
			45	SILTY SAND: pale brown (5YR 5/2), very dense, moist, fine-grained.	SM
20/26/38	>1,999			CLAYEY SILT: moderate brown (5YR 3/4), hard, moist.	CL
			50	SILTY SAND: moderate brown (5YR 4/4), very dense, moist, fine-grained.	SM
50 for 6"	>1,999			SAND: light brown (5YR 5/6), very dense, moist, fine-grained, trace fine and coarse gravel.	SP
			55	SILTY SAND: moderate brown (5YR 3/4), very dense, moist, fine-grained, trace fine and coarse gravel.	SM
37/50	>1,999				
			60	SAND: light brown (5YR 5/6), very dense, moist, medium-grained, trace fine and coarse gravel.	SP
34/50	>1,999				
			65	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, fine-grained sand, trace clay.	ML
18/28/30	1,362			SILTY SAND: light brown (5YR 4/4), very dense, moist, fine-grained.	SM
			70	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, fine-grained.	ML
28/50	>1,999			SILTY SAND: light brown (5YR 5/6), very dense, moist, fine-grained, trace fine and coarse gravel.	SM
			75	SAND: light brown (5YR 5/6), dense, moist, fine-grained.	SP
50 for 6"	>1,999				
			80		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

CB-4

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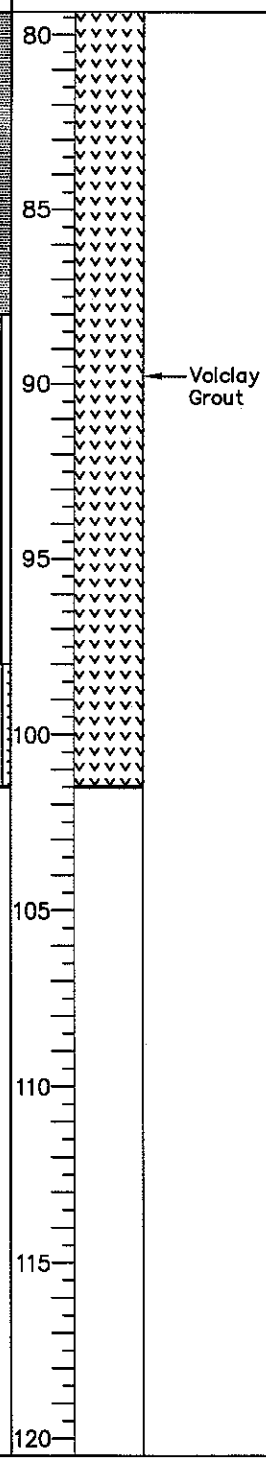
PROJECT NO.: 20–0948	DATE DRILLED: December 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME–85

DRILLING METHOD: 8–inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5–inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
31/50	>1,999		80	Very dense, medium-grained, trace fine and coarse gravel, trace clay.	SP
50 for 12"	>1,999		85		
21/29/50	660		90	SANDY SILT: grayish brown (5YR 3/2), hard, moist, fine-grained sand, trace clay.	ML
50 for 6"	747.1		95		
50 for 6"	800		100	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-4

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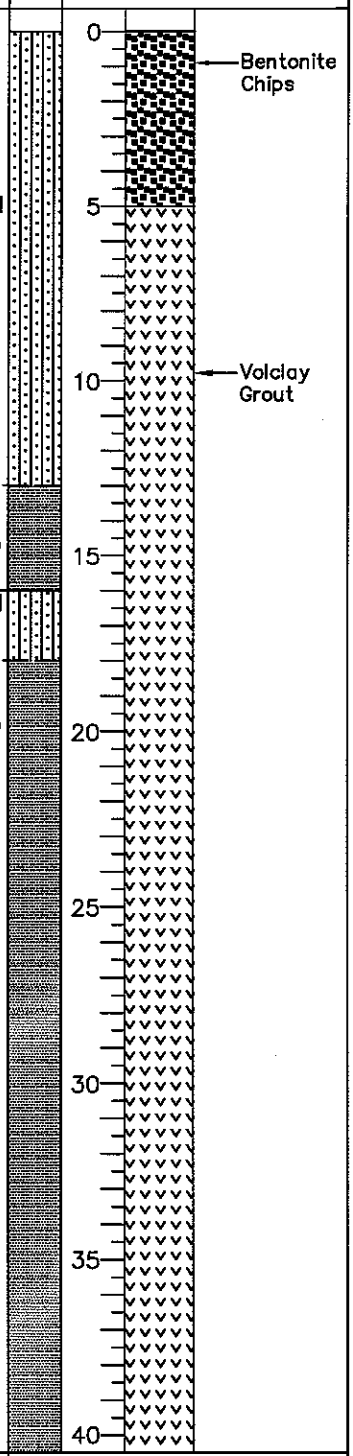
PROJECT NO.: 20-0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
--	0.4		5	SILTY SAND: moderate brown (5YR 4/4), medium dense, moist, fine-grained, trace clay.	SM
50 for 6"	28.2		10	Dark yellowish brown (10YR 4/2), dense, trace fine and coarse gravel, trace cobble, trace clay.	
27/50	15.9		15	SAND: moderate brown (5YR 4/4) dense, moist, trace fine and coarse gravel, trace clay.	SP
				SILTY SAND: moderate brown (5YR 4/4), dense, moist, fine-grained, trace clay.	SM
50 for 6"	5.5		20	SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, some medium-grained sand, trace fine and coarse gravel, trace silt and clay.	SP
17/23/40	4.8		25		
50 for 6"	4.6		30		
50 for 12"	12.2		35	No medium-grained sand, silt, or clay.	
			40		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-5

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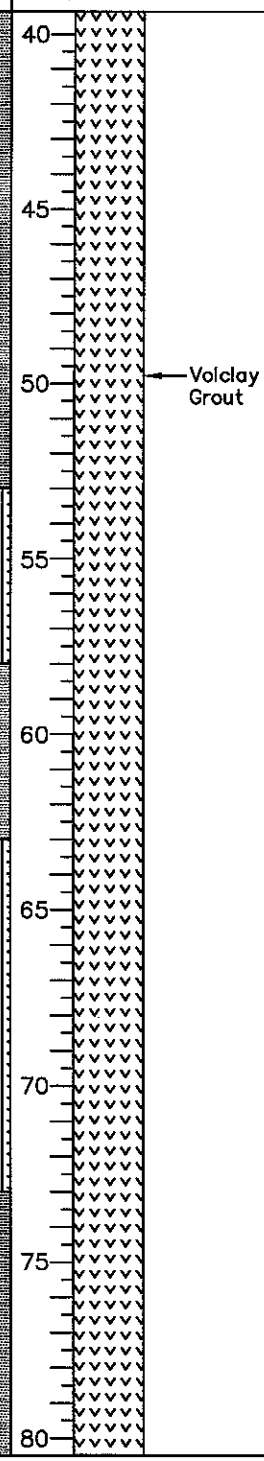
PROJECT NO.: 20-0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
50 for 6"	2.7	X	40	Some medium-grained sand, trace clay.	SP
50 for 6"	23.1	X	45		
50 for 6"	13.3	X	50	No medium-grained sand, trace silt and clay.	
50 for 6"	203	X	55	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace fine and coarse gravel, trace coarse-grained sand and clay.	SM
50 for 6"	16.4	X	60	SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, some medium-grained sand, trace fine and coarse gravel, trace coarse-grained sand and clay.	SP
22/23/30	20.3		65	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
50 for 6"	35.1	X	70		
50 for 6"	22.9	X	75	SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace medium-grained sand, trace clay.	SP
			80		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-5

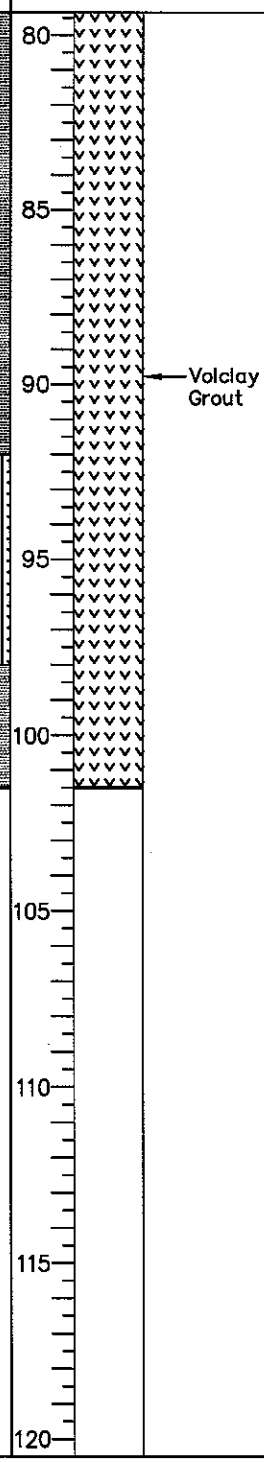
PROJECT NO.: 20-0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
29/50	6.7	X	80	Trace coarse-grained sand, trace fine and coarse gravel, trace clay.	SP
50 for 6"	2.4	X	85		
29/40	6.9	X	90	Trace fine gravel.	
19/20/29	12.7		95	SILTY SAND: moderate brown (5YR 4/4), dense, moist, fine-grained, trace fine gravel, trace clay.	SM
50 for 6"	7.9	X	100	SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace fine gravel, trace clay and silt.	SP
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-5

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-5.DWG Jan 30, 2006 - 12:31pm rdsantos

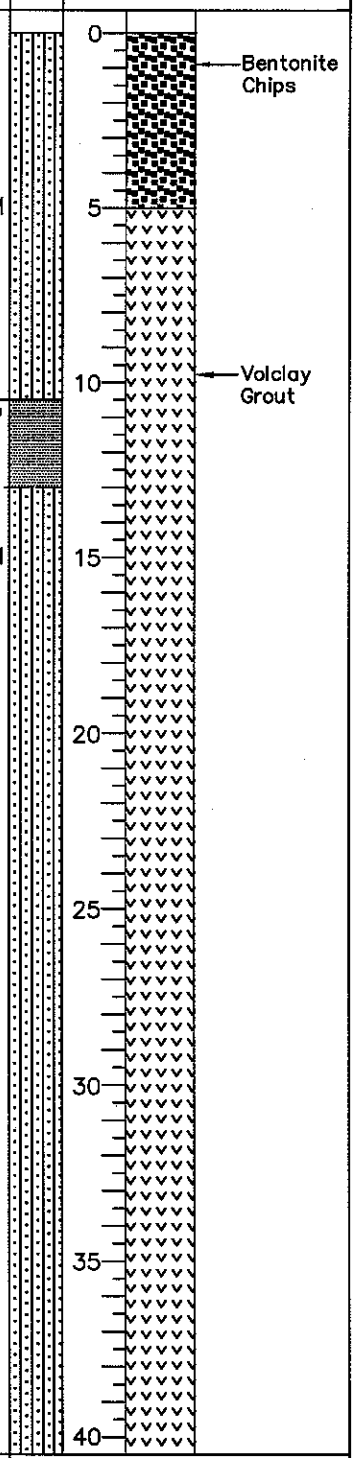
PROJECT NO.: 20-0948	DATE DRILLED: December 8, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
--	11.0		5	SILTY SAND: dark yellowish brown (10YR 4/2), medium dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
20/24/28	2.6		10	SAND: pale yellowish brown (10YR 6/2), very dense, moist, fine-grained, trace clay.	SP
50 for 6"	7.4		15	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
50 for 6"	1.8		20		
50 for 6"	1.4		25		
50 for 6"	2.9		30	With fine and coarse gravel.	
50 for 6"	1.8		35	Trace fine and coarse gravel.	
			40		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-6

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-6.DWG Jan 30, 2006 - 12:37pm rdsantos

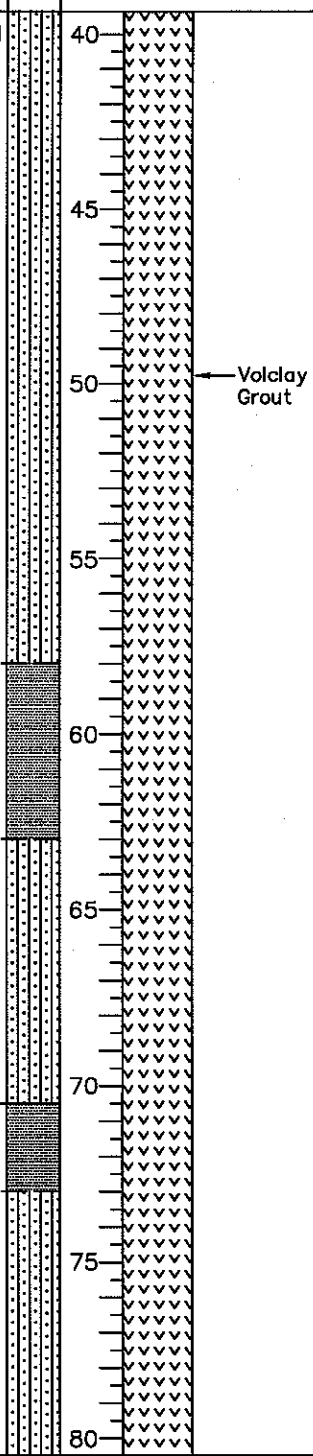
PROJECT NO.: 20-0948	DATE DRILLED: December 8, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
50 for 6"	2.9	X	40	Trace coarse gravel, trace clay.	SM
50 for 6"	26.4	X	45	Trace fine and coarse gravel, no clay.	
50 for 6"	4.6	X	50		
50 for 6"	146	X	55		
50 for 6"	3.2	X	60	SAND: grayish orange (10YR 7/4), very dense, moist, medium-grained, trace coarse gravel, trace clay.	SP
50 for 6"	5.6		65	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
50 for 6"	5.3	X	70	SAND: pale yellowish brown (10YR 6/2), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay and cobble.	SP
50 for 6"	5.9		75	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace clay.	SM
			80		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-6

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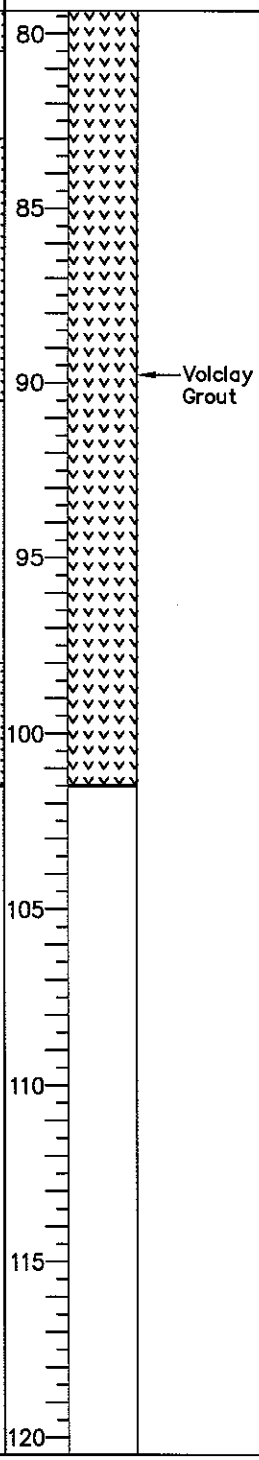
PROJECT NO.: 20-0948	DATE DRILLED: December 8, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
43/50	3.3	X	80	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, fine-grained sand.	SM / ML
39/50	4.7	X	85	SILTY SAND: moderate brown (5YR 4/4), very dense, moist, fine-grained, trace clay.	SM
28/28/50	7.9		90	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, fine-grained sand, trace clay.	ML
46/50	2.9	X	95		
32/50	7.1	X	100	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace clay.	SM
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-6

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APPENDIX F

MANIFESTS

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 1 8 3 1 2

2. Page 1 of 1

3. Generator's Name and Mailing Address
CONOCO PHILLIPS/KAYO ATTN: MARY BODDEN
600 N. DAIRY ASHFORD-TR 1010A
HOUSTON, TX 77079

4. Generator's Phone (281) 293-5647

5. Transporter 1 Company Name: Filter Recycling Services, Inc.

6. US EPA ID Number: C A D 9 8 2 4 4 4 4 8 1

A. Transporter's Phone: (909) 873-4141

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Filter Recycling Services, Inc.
180 W. Monte Avenue
Rialto, CA 92316

10. US EPA ID Number: C A D 9 8 2 4 4 4 4 8 1

C. Facility's Phone: (909) 421-2012

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous waste solid (soil)	002	CM	00020	Y
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
11a) Soil PROFILE# 01062536
Bin# 2018 Bin# 2011

E. Handling Codes for Wastes Listed Above: 01

15. Special Handling Instructions and Additional Information
Wear appropriate protective clothing
24 Hour Emergency Response # (909) 721-2038

Conoco Phillips #0353
200 South Central Ave
Glendale, CA 91204
TRC

WT 5771

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Jake Wirthlin | Signature | Month Day Year: 12 29 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jake Wirthlin | Signature | Month Day Year: 12 29 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Steven Masters | Signature | Month Day Year: 12 30 05

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

TO REORDER CALL 1-800-327-6868

18195771

TICKET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

"WEIGH WHAT WE SAY OR WE PAY" ®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**

(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

CAT SCALE COLLECTOR CARD INSIDE!

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale direct 24 hours a day at 1-877-CAT-SCALE (Toll Free).
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale. Attn: Operations Manager.

The four weights shown below are separate weights. The TOTAL WEIGHT was weighed on a full length platform scale. **AXLE WEIGHTS CANNOT BE CERTIFIED** and are **NOT LEGAL FOR TRADE, however, CAT SCALE COMPANY GUARANTEES THESE WEIGHTS TO BE CORRECT.**

DATE: 12-29-2005

SCALE LOCATION: 1005
I 10 TRUCKSTOP
195 EAST VALLEY BLVD
RIALTO; CA 92376

STEER AXLE	15540	lb
DRIVE AXLE	33620	lb
TRAILER AXLE	16960	lb
TOTAL AXLE	66120	lb

HU4

1A312

WARNING !

THIS FORM IS NOT A CALIFORNIA WEIGHMASTER CERTIFICATE AND IS NOT LEGAL FOR TRADE IN THE STATE OF CALIFORNIA.

COMMODITY OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY FILTERC RECYCLING TRACTOR # 23 TRAILER # NA

WEIGH NUMBER 5771

FEE 8.00

WEIGHER SIGNATURE E WILLIAM

FULL WEIGH TICKET # (IF REWEIGH)

STOMER COPY

© CAT SCALE COMPANY® CAL 05/05

18195775

TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

[redacted]

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

"WEIGH WHAT WE SAY OR WE PAY" ®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
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CAT SCALE COLLECTOR CARD INSIDE!

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The four weights shown below are separate weights. The TOTAL WEIGHT was weighed on a full length platform scale. **AXLE WEIGHTS CANNOT BE CERTIFIED** and are **NOT LEGAL FOR TRADE, however, CAT SCALE COMPANY GUARANTEES THESE WEIGHTS TO BE CORRECT.**

DATE: 12-29-2005

SCALE LOCATION: 1005
I 10 TRUCKSTOP
195 EAST VALLEY BLVD
RIALTO; CA 92376

STEER AXLE	11700 lb
DRIVE AXLE	16680 lb
TRAILER AXLE	12700 lb
TOTAL AXLE	41080 lb

UT

8312

WARNING !

THIS FORM IS NOT A CALIFORNIA WEIGHMASTER CERTIFICATE AND IS NOT LEGAL FOR TRADE IN THE STATE OF CALIFORNIA.

COMMODITY OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY FILTERC RECYCLING TRACTOR # 23 TRAILER # NA

WEIGH NUMBER 5771

FEE 1.00 WEIGHER SIGNATURE E WILLIAM

FULL WEIGH TICKET # (IF REWEIGH) ~~18195771~~

STOMER COPY

© CAT SCALE COMPANY® CAL 05/05

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: . . . . . .

Manifest Document No.: 1 8 6 5 3

2. Page 1 of 1

3. Generator's Name and Mailing Address
CONOCO PHILLIPS/KAYO ATTN: MARY BODDEN
600 N. DAIRY ASHFORD-TR 1010A
HOUSTON, TX 77079

4. Generator's Phone (281) 293-5647

5. Transporter 1 Company Name: Filter Recycling Services, Inc.

6. US EPA ID Number: G A D 9 8 2 4 4 4 4 8 1

A. Transporter's Phone: (909) 873-4141

7. Transporter 2 Company Name:

8. US EPA ID Number: . . . . . .

B. Transporter's Phone:

9. Designated Facility Name and Site Address
Filter Recycling Services, Inc.
180 W. Monte Avenue
Rialto, CA 92316

10. US EPA ID Number: G A D 9 8 2 4 4 4 4 8 1

C. Facility's Phone: (909) 421-2012

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. ~~Non-Hazardous waste solid (Soil)~~	. .	~~D M~~	. . . .	~~P~~
b. Non-Hazardous waste liquid (Waste Water)	005	D M	00250	G
c. ~~Non-Hazardous waste solid (empty container)~~	. .	~~D M~~	. . . .	~~P~~
d.	. .	.	. . . .	

D. Additional Descriptions for Materials Listed Above
~~11a) soil Profile # 01062536~~
11b) water Profile # 01062537
~~11c) empty containers Profile # 03080812~~

E. Handling Codes for Wastes Listed Above: 01

15. Special Handling Instructions and Additional Information
Wear appropriate protective clothing
24 Hour Emergency Response # (909) 721-2038

CONOCO PHILLIPS 0353
200 S. Central Ave
Glendale, CA
TRC

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: JOSHUA CLARK — Signature: [signature] — Month 01 Day 11 Year 06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JOSHUA CLARK — Signature: [signature] — Month 01 Day 11 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month . Day . Year .

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Steven Masters — Signature: [signature] — Month 01 Day 11 Year 06

GENERATOR — TRANSPORTER — FACILITY

ORIGINAL - RETURN TO GENERATOR

TO REORDER CALL 1-800-327-6868