



**CONESTOGA-ROVERS  
& ASSOCIATES**

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Alameda County  
Environmental Health

5900 Hollis Street, Suite A, Emeryville, California 94608  
Telephone: 510-420-0700 Facsimile: 510-420-9170  
www.CRAworld.com

June 28, 2007

Mr. Barney Chan  
Alameda County Department of Environmental Health (ACDEH)  
1131 Harbor Bay Parkway  
Alameda, CA 94502

Re: **Vapor Probe Survey Report**  
Former Chevron Station 9-0020  
1633 Harrison Street  
Oakland, California  
CRA Project No. 311956

Dear Mr. Chan:

Conestoga-Rovers & Associates (CRA) is submitting this *Vapor Probe Survey Report* on behalf of Chevron Environmental Management Company (Chevron). Chevron conducted an onsite Tier II Risk-Based Corrective Action (RBCA) evaluation to estimate hazards due to exposures of residual concentrations of petroleum hydrocarbons and to identify any data gaps at the request of ACDEH in a letter dated April 27, 2007 (Attachment A). The previous soil vapor data was not used in the evaluation due to the fact that the data was almost 20 years old. This was considered a data gap and a workplan for a proposed vapor survey was submitted and approved by ACDEH in a letter dated June 6, 2007 and modified in a conference call between CRA and ACDEH on June 8, 2007 (Attachment B). A vapor probe survey was conducted to define onsite subsurface concentrations of volatile organic compound vapors. Data collected will be used to evaluate human health risks and hazards to future residents as established in guidance recommended by the California Environmental Protection Agency (CalEPA) and the United States Environmental Protection Agency (USEPA). The future land use is a planned senior housing development. A description of the vapor probe installation and vapor sampling results are presented below.

## **INVESTIGATION RESULTS**

The objective of this investigation was to obtain current soil vapor data to be used to evaluate the potential for vapor intrusion into the proposed senior housing building. To meet this objective, CRA advanced a total of six soil borings on the property and installed two vapor probes in each boring. Three soil borings were advanced along Harrison and 17<sup>th</sup> Streets within the footprint of the proposed housing development, and three were advanced in the western portion of the property where halogenated volatile organic compounds (HVOCs) had been detected previously in groundwater (Figure 2).

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**Site Health and Safety Plan:** CRA performed all work under the guidelines set forth in a comprehensive site health and safety plan. The plan was reviewed and signed by all site workers and visitors and kept on-site at all times.

**Permits:** CRA conducted work under Alameda County Public Works Agency well permit W2007-0654. A copy of the permit is included as Attachment B.

**Dates:** CRA advanced six soil borings and completed vapor probe installation on June 13, 2007, and conducted vapor sampling on June 18, 2007.

**Personnel:** CRA personnel, Charlotte Evans, and Jeremy Gekov, conducted the field work under the supervision of California Professional Geologist Robert Foss (P.G. #7445).

**Underground Utility Location:** Prior to drilling, CRA contacted Underground Service Alert (USA) to notify utility providers of the proposed work and to identify the locations of subsurface utilities.

**Drilling Company:** CRA contracted Vironex, of Pacheco, California (C57 #705927) to advance the borings and install the vapor probes.

**Soil Borings and Sampling:** Vironex advanced six borings, under supervision of CRA personnel, using a hand-auger to depths ranging from 10.5 fbg to 11 fbg. The soil borings were converted into vapor points VP-1 through VP-6. Nested vapor probes were installed in each boring at depths of 5 fbg and 10 fbg. CRA personnel continuously logged the soil lithology and collected soil samples for laboratory analysis at 3, 5, and 9.5 fbg. Soil samples were covered with Teflon™ tape, capped with a polyethylene lid and labeled. Boring logs showing sediment lithology, sample depths, and vapor probe installation details are presented as Attachment C.

**Lithology:** Sand with silt and clayey sand were encountered to total boring depths of 10.5 fbg in borings VP-1, VP-2, VP-5, and VP-6. Clayey sand was encountered from 0-7 fbg and sand with silt from 7-11 fbg in borings VP-3 and VP-4.

**Vapor Probe Construction:** Vapor probes were constructed of a ½-inch diameter, 6-inch long mesh screen attached to ¼-inch Teflon tubing. Each probe was placed at the desired depth and surrounded by a 12-inch sand pack. Each probe was isolated from the others by approximately 6-inches of dry bentonite and then a hydrated bentonite grout mixture. Vapor points were finished at the surface using a traditional well vault. Soil vapor probes



were installed according to the Department of Toxic Substances Control (DTSC) *Advisory-Active Soil Gas Investigations* guidance document, dated January 28, 2003.

**Vapor Sampling:** A closed circuit system was created by attaching the Summa™ canister in series with the vacuum pump prior to connecting to the vapor probe. Samples from soil vapor points were collected using flow meters set at 100 ml/min and 1-liter Summa™ canisters connected to the sampling tubing at each vapor point. A battery powered air pump with attached vacuum-chamber and Tedlar™ bag was used to purge an appropriate volume from the sampling point tubing. A purge volume is the amount of estimated dead air in the vapor probe and tubing. After purging, the valve between the purge pump and Summa™ canister was closed and the Summa™ canister valve was opened. The vacuum of the Summa™ canister was used to draw the soil vapor through the flow controller until a negative pressure of approximately 5-inches of Hg was observed on the vacuum gauge.

In accordance with the DTSC *Advisory-Active Soil Gas Investigations* guidance document, dated January 28, 2003, leak testing was performed during sampling. Shaving cream was used as a leak detector to determine if ambient air was entering the Summa™ canisters during sampling by recognizing if the specific leak check compound was detected in the analysis. Isobutane (2-methyl-propane), butane and propane were identified by modified EPA method TO-15 as the most abundant compounds of the specific shaving cream analyzed and indicated by distinctive peaks on the petroleum hydrocarbon chromatograph separate from TPH in the gasoline range. The standard compound of the leak test, based on analysis of the shaving cream, is isobutane at 150,000 parts per billion by volume (ppbv). Isobutane was reported in some of the samples, though the maximum amount reported was 230 ppbv for VP-5 at 5 fbg, an amount considered negligible, being less than one-tenth of one percent of the standard.

After sampling, the Summa™ canisters were packaged and sent to the Air Toxics laboratory under chain-of-custody for analysis. Standard Field Procedures for Soil Vapor Probe Installation and Sampling are presented as Attachment D.

**Laboratory Analyses of Soil Samples:** Soil samples were stored in a cooler where they were maintained at 4° C and transported under chain of custody to Lancaster Laboratories of Lancaster, Pennsylvania where they were analyzed for the following constituents:

- Total Petroleum Hydrocarbons as gasoline (TPHg) by EPA Method 8015 modified,



- Benzene, toluene, ethyl benzene, and xylenes (BTEX), ethanol, tert-butyl alcohol (TBA), methyl tert-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl-tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), 1,2-dibromoethane (EDB), naphthalene, and HVOCs: carbon tetrachloride, chloroform, tetrachloroethene (PCE), trichloroethene (TCE), trans-1,2-dichloroethene (t-1,2-DCE), cis-1,2-dichloroethene (c-1,2-DCE) 1,1,1-trichloroethane (1,1,1-TCA), 1,2-dichloroethane (1,2-DCA), 1,2-dichloropropane (1,2-DCP), 1,1-dichloroethene (1,1-DCE) by EPA Method 8260B, and
- Physical parameters including moisture content, bulk density, total porosity, air- and water-filled porosity, organic carbon and effective permeability in undisturbed soil samples.

**Laboratory Analyses of Vapor Samples:** Vapor samples were stored at ambient air temperature and transported under chain of custody to Air Toxics Laboratory, of Folsom, California where they were analyzed for the following constituents:

- Total Petroleum Hydrocarbons as gasoline (TPHg) by EPA Method TO-3,
- Benzene, toluene, ethyl benzene, and xylenes (BTEX), ethanol, tert-butyl alcohol (TBA), methyl tert-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl-tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), 1,2-dibromoethane (EDB), naphthalene, isobutane, butane and propane as leak detectors and HVOCs: carbon tetrachloride, chloroform, tetrachloroethene (PCE), trichloroethene (TCE), trans-1,2-dichloroethene (t-1,2-DCE), cis-1,2-dichloroethene (c-1,2-DCE) 1,1,1-trichloroethane (1,1,1-TCA), 1,2-dichloroethane (1,2-DCA), 1,2-dichloropropane (1,2-DCP), 1,1-dichloroethene (1,1-DCE) by EPA Method TO-15,
- O<sub>2</sub> and CO<sub>2</sub> by ASTM 1946 (GC/TCD).

Table 1 summarizes the analytic results for soil chemical analysis, Table 2 summarizes vapor chemical analysis, and Table 3 summarizes the soil physical parameters. The laboratory analytic reports are included as Attachment E.

**Soil Disposal:** Soil cuttings generated were placed in drums and labeled appropriately. These wastes will be transported to the appropriate Chevron-approved disposal facility following receipt of profiling analytic results.



## Hydrocarbon Distribution in Soil

TPHg was only detected in VP-1 at a concentration of 48 mg/kg at 3 fbg. No benzene was detected in any soil sample; however toluene, ethylbenzene and xylenes were also detected in VP-1 at 3fbg at 0.018 mg/kg, 0.26 mg/kg and 1.93 mg/kg, respectively. No oxygenates or halogenated volatile organic compounds were detected in any of the soil samples.

## Hydrocarbon Distribution in Vapor

TPHg and benzene were detected in all vapor samples. The maximum concentrations of TPHg and benzene were 2,600,000  $\mu\text{g}/\text{m}^3$  and 2,600  $\mu\text{g}/\text{m}^3$ , respectively, from VP-1 at 10 fbg, in the area of the former used-oil tank. Naphthalene was detected in VP-6 at 10 fbg at 29  $\mu\text{g}/\text{m}^3$ . Ethanol was only detected in VP-4 at 5 fbg at 18  $\mu\text{g}/\text{m}^3$ . The only halogenated volatile organic compound detected was chloroform in VP-3 and VP-5, with the maximum detection of 6.4  $\mu\text{g}/\text{m}^3$  in VP-5 at 5 fbg.

San Francisco Regional Quality Water Control Board (SFRWQCB) has defined environmental screening levels (ESLs) for shallow soil gas in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater – Interim Final*, dated February 2005. These ESLs are for shallow soil gas samples collected at less than 5 fbg beneath the foundation of a building or ground surface and intended for evaluation of potential indoor air impacts. The samples that were collected on June 18, 2007, were from 5 fbg or deeper, and be used to evaluate potential vapor intrusion to indoor air with the scientific model SG-SCREEN (Version 2.0), developed by the USEPA (2003) and modified by the Cal-EPA DTSC. This model is used to predict concentrations of the volatile chemicals in indoor air based on their concentrations in soil vapor. The SG-SCREEN model was last modified on January 21, 2005 and is based on the Johnson and Ettinger (1991) indoor air vapor intrusion model, often referred to as the J&E Model.

## CONCLUSIONS

The results of the vapor sampling will be used in an evaluation of vapor intrusion to indoor air from soil vapor. The evaluation of potential vapor intrusion, along with the prior risk assessment, will be submitted concurrently in a Remedial Action Plan by CRA on June 28<sup>th</sup>, 2007.



## CLOSING

We appreciate this opportunity to work with your organization toward redevelopment of this property. Please contact Charlotte Evans at (510) 420-3351 or Satya Sinha of Chevron at (925) 842-9876 if you have any questions or comments.

Sincerely,  
**Conestoga-Rovers & Associates**

Charlotte Evans

For: Robert Foss, P.G. #7445



Figures: 1 – Vicinity Map  
2 – Vapor Probe Locations

Tables: 1 – Analytic Results for Soil Chemical Analysis  
2 – Analytic Results for Vapor Chemical Analysis  
3 – Analytic Results for Soil Physical Parameters

Attachments: A – Regulatory Correspondence  
B – Permits  
C – Boring Logs  
D – Soil and Vapor Laboratory Reports

cc: Mr. Satya Sinha, Chevron Environmental Management Company, P.O. Box 6012,  
San Ramon, CA 94583  
Ms. Jeriann Alexander, FugroWest, Inc., 1000 Broadway, Suite 200, Oakland,  
CA 94607  
Mr. Shaddrick Small, Oakland Housing Authority, 1805 Harrison Street, Oakland,  
CA 94612  
Mr. William Pickel, Christian Church Homes/California Community Housing, 303 Hegenberger  
Road, Suite 201, Oakland, CA 94621

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SCALE : 1" = 1/4 MILE

**Former Chevron Station 9-0020**  
1633 Harrison Street  
Oakland, California

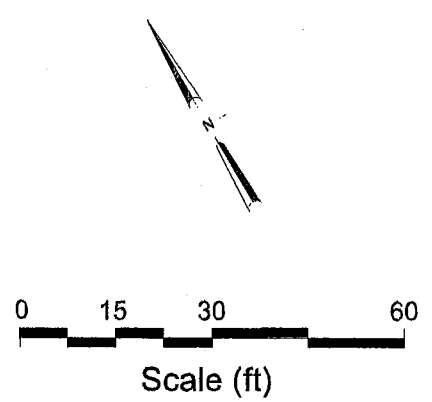
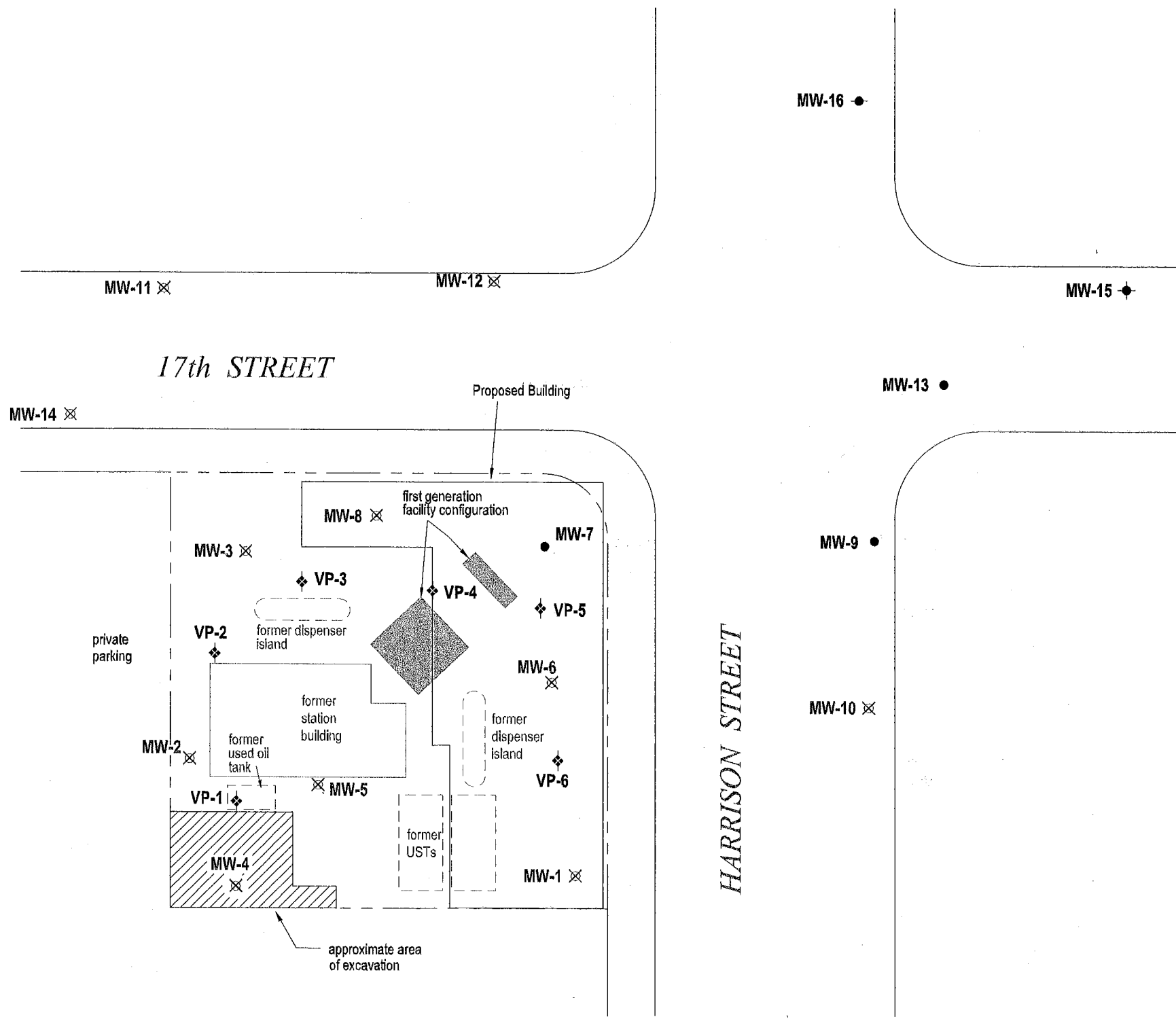


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**Vicinity Map**



EXPLANATION	
VP-1	Proposed vapor probe location
MW-7	Monitoring well location
MW-1	Abandoned well location



Vapor Probe Locations



**Former Chevron Station 9-0020**  
 1633 Harrison Street  
 Oakland, California

FIGURE  
**2**

I:\CHEVRON\9-0020\_OAKLAND\FIGURES\9-0020\_VAPOR PROBE LOC.S.DWG

Table 1. Analytic Results for Soil - Former Chevron Station 9-0020, 1633 Harrison Street, Oakland, California

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	B	T	E	X	Ethanol	MtBE	TBA	DIPE	ETBE	TAME	EDB	1,2-DCA	Carbon Tetrachloride	Chloroform	PCE	TCE	1,2-DCE	t-1,2-DCE	c-1,2-DCE	1,1,1-TCA	1,2-DCP	1,1-DCE		
Concentrations reported in milligrams per kilogram - mg/kg																											
VP-1	6/13/07	3	48	<0.003	0.018	0.26	1.93	<0.51	<0.003	<0.10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
		5	6.1	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		9.5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.099	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
VP-2	6/13/07	3	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
		5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		9.5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.099	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
VP-3	6/13/07	3	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
		5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.099	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		9.5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
VP-4	6/13/07	3	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
		5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		9.5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.099	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
VP-5	6/13/07	3	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
		5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.099	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		9.5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
VP-6	6/13/07	3	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
		5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.10	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		9.5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.099	<0.0005	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M  
 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Ethanol, Methyl Tertiary Butyl Ether (MtBE), t-Butyl Alcohol (TBA), di-Isopropyl ether (DIPE), Ethyl t-butyl ether (ETBE), t-amyl methyl ether (TAME), 1,2-Dibromoethane (EDB), 1,2-Dichloroethane (1,2-DCA), Carbon Tetrachloride, Chloroform, Tetrachloroethene (PCE), Trichloroethene (TCE), 1,2-Dichloroethene (1,2-DCE), trans-1,2-Dichloroethene (t-1,2-DCE), cis-1,2-Dichloroethene (c-1,2-DCE), 1,1,1-Trichloroethane (1,1,1-TCA), 1,2-Dichloropropane (1,2-DCP), 1,1-Dichloroethene (1,1-DCE) by EPA Method 8260B  
 fbg = Feet below grade  
 <X = Not detected above method detection limit

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**Table 2. Analytic Results for Vapor - Former Chevron Station 9-0020, 1633 Harrison Street, Oakland, California**

Sample ID	Sample Date	Probe Depth Interval (fbg)	TPH (C5+) <sup>1</sup>	TPH (Gasoline) <sup>1</sup>	B	T	E	X <sup>2</sup>	MTBE	TBA	DIPE	ETBE	TAME	EDB	1,2-DCA	Napthalene	Chloroform	Ethanol	Other HVOCs	Isobutane <sup>3</sup> ppbv	Oxygen (% volume)	Carbon dioxide (% volume)
Concentrations reported in micrograms per cubic meter - µg/m <sup>3</sup>																						
VP-1	06/13/07	5.0-5.5	1,000,000	1,100,000	110	220	480	1000	<56	<190	<260	<260	<260	<120	<63	<330	<46	<120	ND	ND	4.5	10
VP-1	LAB DUPLICATE		1,100,000	1,100,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.6	10
VP-1	06/13/07	10.0-10.5	2,600,000	2,600,000	2600	2000	4800	5000	<21	<70	<97	<97	<97	<44	<23	740	<17	<44	ND	ND	5.0	6.1
VP-2	06/13/07	5.0-5.5	9,300	8,900	7.9	420	170	530	<4.4	<15	<21	<21	<21	<9.5	<5.0	<26	14	<9.3	ND	54	16	1.2
VP-2	06/13/07	10.0-10.5	4,300	4,000	12	280	66	260	<4.4	<15	<20	<20	<20	<9.3	<4.9	<25	<3.5	<9.1	ND	13	16	2.3
VP-2	LAB DUPLICATE		4,500	4,200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-3	06/13/07	5.0-5.5	9,100	8,200	29	600	120	490	<4.4	<15	<20	<20	<20	<9.3	<4.9	<25	<3.5	<9.1	ND	53	16	0.8
VP-3 DUP	06/13/07	5.0-5.5	9,100	8,200	28	590	120	490	<4.4	<15	<20	<20	<20	<9.3	<4.9	<25	4.3	<9.1	ND	34	16	0.79
VP-3	06/13/07	10.0-10.5	11,000	10,000	56	1000	170	630	<4.4	<15	<20	<20	<20	<9.3	<4.9	<25	4.3	<9.1	ND	ND	15	0.93
VP-3	LAB DUPLICATE		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	0.93
VP-4	06/13/07	5.0-5.5	14,000	13,000	26	620	130	520	<4.4	<15	<20	<20	<20	<9.3	<4.9	<25	<3.5	18	ND	75	14	0.88
VP-4	06/13/07	10.0-10.5	10,000	9,800	15	310	120	280	<4.3	<14	<20	<20	<20	<9.1	<4.8	<25	<3.5	<9.0	ND	75	13	2.9
VP-4	LAB DUPLICATE		--	--	14	310	120	280	<4.3	<14	<20	<20	<20	<9.1	<4.8	<25	<3.5	<9.0	ND	72	--	--
VP-5	06/13/07	5.0-5.5	20,000	19,000	35	820	160	590	<4.3	<14	<20	<20	<20	<9.1	<4.8	<25	6.4	<9.0	ND	230	17	0.15
VP-5	06/13/07	10.0-10.5	8,100	6,900	9	160	42	130	<4.2	<14	<19	<19	<19	<9.0	<4.7	<24	<3.4	<8.8	ND	21	18	1.1
VP-5 DUP	06/13/07	10.0-10.5	4,900	4,300	8	160	34	110	<4.4	<15	<20	<20	<20	<9.3	<4.9	<25	<3.5	<9.1	ND	16	18	1.0
VP-6	06/13/07	5.0-5.5	41,000	38,000	28	320	130	320	<4.2	<14	<19	<19	<19	<9.0	<4.7	110	<3.4	<8.8	ND	96	14	1.8
VP-6	06/13/07	10.0-10.5	17,000	15,000	20	450	95	330	<4.2	<14	<19	<19	<19	<9.0	<4.7	29	<3.4	<8.8	ND	ND	12	1.4

**Abbreviations/Notes:**

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M

Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Ethanol, Methyl Tertiary Butyl Ether (MtBE), t-Butyl Alcohol (TBA), di-Isopropyl ether (DIPE), Ethyl t-butyl ether (ETBE), t-amyl methyl ether (TAME), 1,2-Dibromoethane (EDB),

1,2-Dichloroethane (1,2-DCA), Carbon Tetrachloride, Chloroform, Tetrachloroethene (PCE), Trichloroethene (TCE),

1,2-Dichloroethene (1,2-DCE), trans-1,2-Dichloroethene (t-1,2-DCE), cis-1,2-Dichloroethene (c-1,2-DCE),

1,1,1-Trichloroethane (1,1,1-TCA), 1,2-Dichloropropane (1,2-DCP), 1,1-Dichloroethene (1,1-DCE) by EPA Method 8260B

1 = Originally reported in micrograms per liter (µg/L) and converted to µg/m<sup>3</sup> using Air Toxics Units Conversion Calculator

2 = Values for highest value of Xylenes detected.

3 = Constituent used as leak detector determined as a Tentatively Identified Compound (TICs) by Modified EPA Method TO-15

Match quality was below 50% for TICs.

fbg = Feet below grade

ppbv = parts per billion by volume

<X = Not detected above method detection limit

## CONESTOGA-ROVERS & ASSOCIATES

**Table 3. Analytic Results for Soil Physical Parameters - Former Chevron Station 9-0020, 1633 Harrison Street, Oakland, California**

Sample ID	Sample Date	Sample Depth (fbg)	Bulk Density (g/cc)	Moisture Content (% wt)	Total Porosity (% Vb)	Water Filled Porosity (% Vb)	Air Filled Porosity (% Vb)	Total Organic Carbon (mg/kg)	Effective Permeability (md)	Mean Grain Size (descriptive)	Median Grain Size (mm)
SB1	04/27/07	10	1.84	13.3	32.2	24.6	7.6	630	3492	Fine Sand	0.275
Physical Parameters	06/13/07	9.5	1.82	17.2	32.6	31.2	1.4	3250	0.250	Fine Sand	0.195

**Abbreviations/Notes:**

Bulk density, total porosity, water filled porosity, air filled porosity, effective permeability by method API RP40

Moisture content by ASTM D2216

Total organic carbon by Walkley-Black Method

Mean and median grain size by ASTM D422/D4464M

fbg = Feet below grade

g/cc = grams per cubic centimeter

% wt = percent weight

% Vb = percent bulk volume

mg/kg = milligrams per kilogram

md = millidarcy

mm = millimeters

**ATTACHMENT A**

**Regulatory Correspondence**

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



June 6, 2007

Mr. Satya Sinha  
Chevron Environmental Management Co.  
P.O. Box 6012, Room K2256  
San Ramon, CA 94583

Mr. Shaddrick Small, Oakland Housing Authority  
1805 Harrison St.  
Oakland, CA 94612

Dear Messrs. Sinha and Small:

Subject: Fuel Leak Case RO0000143 & Global ID T0600100304, Chevron #9-0020,  
1633 Harrison St., Oakland, CA 94612

Alameda County Environmental Health (ACEH) has reviewed the files for the subject site including the May 2, 2007 Risk Assessment and Proposed Vapor Survey prepared by Conestoga-Rovers & Associates (CRA). The work plan responds to the May 11, 2007 County e mail requesting soil vapor sampling and evaluation of the off-site release at the subject site. An on-site risk assessment of volatile organic compounds (VOCs) was also performed, although halogenated VOCs were not evaluated. To evaluate for halogenated VOCs and obtain current TPH and VOC data for evaluation, soil vapor sampling is proposed. Although we have no objections with this work we request you address the following technical comments when performing the proposed work.

#### TECHNICAL COMMENTS

1. Vapor Probes and Sampling- Four vapor probe locations are proposed along 17<sup>th</sup> St and Harrison Street beneath the proposed building. Since it is unclear the source(s) of the HVOCs, we request that two additional soil vapor locations be added to the investigation, one near former well MW-4 and one between former wells MW-2 and MW-3. Two soil vapor probes are proposed, one at 5' bgs and one at 10' bgs in a nested well. We are concerned about the ability to obtain an acceptable seal between the vapor probes, therefore, discrete boreholes are recommended for your probes. Soil samples are proposed to be taken for analysis, however, their depths are not stated. A hand auger sample from soil samples collected above 8' bgs is proposed. We recommend screening one hole for volatiles its entire length and then sampling undisturbed soil in an adjacent hole at the apparent impacted depths. One hole would have the shallow probe and the other the deeper.
2. Extent of contamination- We have previously requested, however your work plan does not address, the delineation of the plume off-site and the determination if on-site remediation is necessary. An evaluation of risk to off-site receptors must also be performed. Please provide this technical information as requested below.

ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

## TECHNICAL REPORT REQUEST

Please submit the following technical reports according to the following schedule:

- July 6, 2007- Revised work plan addressing additional vapor probes, vapor probe construction and soil sampling
- July 6, 2007- Work plan for off-site plume delineation and off-site risk evaluation.

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

## ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) now request submission of reports in electronic form. The electronic copy is intended to replace the need for a paper copy and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all reports is required in Geotracker (in PDF format). Please visit the State Water Resources Control Board for more information at ([http://www.swrcb.ca.gov/ust/cleanup/electronic reporting](http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting)).

## PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

## PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and

Messrs. Sinha & Small  
RO 143, 1633 Harrison St., Oakland  
June 6, 2007  
Page 3 of 3

recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, late reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

If you have any questions, please call me at (510) 567-6765.

Sincerely,



Barney M. Chan  
Hazardous Materials Specialist

cc: files, D. Drogos  
Ms. Charlotte Evans, CRA, 5900 Hollis St., Suite A, Emeryville, CA 94608  
Ms. Jeriann Alexander, FugroWest, Inc., 1000 Broadway, Suite 200, Oakland,  
CA 94607



**Evans, Charlotte**

---

**From:** Evans, Charlotte  
**Sent:** Tuesday, June 12, 2007 5:24 PM  
**To:** Barney.chan@acgov.org  
**Cc:** ACHCSA - Donna Drogos (donna.drogos@acgov.org); Chevron - Satya Sinha (satyasinha@chevron.com); Foss, Bob (Robert)  
**Subject:** Conference call 6/8/07 for 1633 Harrison St., Oakland

Barney,

Thank you for the conference call on Friday, June 8, 2007. Here is a recap of our discussions and some modifications that were made to the planned work on June 11-12, 2007:

1. Nested probes (multi-depth probes within one borehole) are acceptable under DTSC/USEPA guidance. Therefore, two probes will be placed in each borehole at 5 fbg and 10 fbg.
2. Four vapor probes, within two boreholes, have been added to the planned work. One borehole will be near former well MW-4 and one borehole will be between former wells MW-2 and MW-3.
3. Soil samples will be collected at approximately 3 fbg, 5.5 fbg, and 10.5 fbg. All soil samples will be analyzed for TPHg, BTEX, ethanol, TBA, MTBE, DIPE, ETBE, TAME, EDB and HVOs (Carbon Tet; Chloroform; PCE; TCE; 1,2-DCE; t-1,2-DCE; c-1,2-DCE; 1,1,1-TCA; 1,2-DCA; 1,2-DCP; 1,1-DCE). All of these constituents are currently sampled in the semi-annual groundwater sampling events. One to two undisturbed samples will also be taken for physical analyses.

Once the installation and sampling of the vapor probes is completed, an investigation report will be submitted. A Remedial Action Plan will also be submitted and will include plans to remove impacted soil in a limited area, as defined by previous investigations, near well MW-7. A workplan will also be submitted separately for an offsite investigation.

Please let me know if you have any questions or comments. And thank you.

**Charlotte Evans**

**Conestoga-Rovers & Associates (CRA)**

5900 Hollis Street, Suite A

Emeryville, CA 94608

Tel: 510-420-3351

Cel: 510-385-0387

Fax: 510-420-9170

[cevans@croworld.com](mailto:cevans@croworld.com)

**\*\*Please note new email address\*\***

Conestoga-Rovers & Associates has acquired the former Cambria Environmental Technology.

Visit us at [www.croworld.com](http://www.croworld.com)

6/27/2007

**ATTACHMENT B**

**Permits**

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 06/05/2007 By jamesy**

**Permit Numbers: W2007-0654**  
**Permits Valid from 06/13/2007 to 06/15/2007**

**Application Id:** 1180124694503  
**Site Location:** 1633 Harrison St. at 17th St.  
**Project Start Date:** 06/11/2007  
**Extension Start Date:** 06/13/2007  
**Extension Count:** 1

**City of Project Site:**Oakland  
**Completion Date:**06/12/2007  
**Extension End Date:** 06/15/2007  
**Extended By:** vickyh1

**Applicant:** Conestoga-Rovers & Associates - Charlotte  
Evans  
5900 Hollis St., Suite A, Emeryville, CA 94608

**Property Owner:** Housing Authority, City of Oakland  
1805 Harrison St., Oakland, CA 94612

**Client:** Satya Sinha Chevron Environmental  
Management Company  
6001 Bollinger Canyon Rd., San Ramon, CA 94583

**Phone:** 510-420-3351

**Phone:** --

**Phone:** --

**Total Due:** \$200.00  
**Total Amount Paid:** \$200.00  
**Payer Name : Conestoga-Rovers & Associates** Paid By: CHECK **PAID IN FULL**

**Works Requesting Permits:**

Remediation Well Construction-Extraction - 6 Wells  
Driller: Vironex - Lic #: 705927 - Method: Hand

**Work Total: \$200.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2007-0654	06/05/2007	09/09/2007	VP-1	6.00 in.	10.00 in.	2.00 ft	11.00 ft
W2007-0654	06/05/2007	09/09/2007	VP-2	6.00 in.	10.00 in.	2.00 ft	11.00 ft
W2007-0654	06/05/2007	09/09/2007	VP-3	6.00 in.	10.00 in.	2.00 ft	11.00 ft
W2007-0654	06/05/2007	09/09/2007	VP-4	6.00 in.	10.00 in.	2.00 ft	11.00 ft
W2007-0654	06/05/2007	09/09/2007	VP-5	6.00 in.	10.00 in.	2.00 ft	11.00 ft
W2007-0654	06/05/2007	09/09/2007	VP-6	6.00 in.	10.00 in.	2.00 ft	11.00 ft

**Specific Work Permit Conditions**

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or

## **Alameda County Public Works Agency - Water Resources Well Permit**

waterways or be allowed to move off the property where work is being completed.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
  4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to [vickyh@acpwa.org](mailto:vickyh@acpwa.org) at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
  5. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).
  6. Minimum surface seal thickness is two inches of cement grout placed by tremie
  7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
-

**ATTACHMENT C**

**Boring Logs**



Conestoga-Rovers & Associates  
 5900 Hollis Street, Suite A  
 Emeryville, CA 94608  
 Telephone: 510-420-0700  
 Fax: 510-420-9170

# BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	VP-1
JOB/SITE NAME	9-0020	DRILLING STARTED	13-Jun-07
LOCATION	1633 Harrison Street, Oakland CA	DRILLING COMPLETED	13-Jun-07
PROJECT NUMBER	311956	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2.75"	SCREENED INTERVALS	NA
LOGGED BY	Jeremy Gekov	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
870		VP-1-S-3		SM		<b>SAND with silt:</b> Grey; loose; 90% medium sand, 10% silt; moist; non plastic; high estimated permeability.		
450		VP-1-S-5	5			@ 5 fbg changes to greenish grey color	7.0	
230		VP-1-S-9.5	10	SC		<b>Clayey SAND:</b> Brown; loose; 80% medium sand, 20% clay; moist; low plasticity; high estimated permeability	10.5	
						Bottom of Boring @ 10.5 fbg		

WELL LOG (PID) I:\CHEVRON\9-0020-1\GINT\9-0020 VAPOR PROBE 6-13-07.GPJ DEFAULT.GDT 6/26/07



Conestoga-Rovers & Associates  
 5900 Hollis Street, Suite A  
 Emeryville, CA 94608  
 Telephone: 510-420-0700  
 Fax: 510-420-9170

# BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	VP-2
JOB/SITE NAME	9-0020	DRILLING STARTED	13-Jun-07
LOCATION	1633 Harrison Street, Oakland CA	DRILLING COMPLETED	13-Jun-07
PROJECT NUMBER	311956	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2.75"	SCREENED INTERVALS	NA
LOGGED BY	Jeremy Gekov	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		VP-2-S-3	0			<b>SAND:</b> Brown; loose; 95% medium sand, 5% silt; moist; non plastic; high estimated permeability.		<p>Portland Type I/II</p>
0		VP-2-S-5	5	SM		@ 5 fbg grades to: Sand with silt; Brown; loose; 85% medium sand, 10% silt, 5% clay; moist; non plastic; high estimated permeability.		<p>Bentonite Seal</p>
0		VP-2-S-9.5	10			Bottom of Boring @ 10.5 fbg	10.5	<p>Monterey Sand #2/16</p>

WELL LOG (PID) I:\CHEVRON\9-0020-1\GINT19-0020 VAPOR PROBE 6:13:07.GPJ DEFAULT.GDT 6/26/07



Conestoga-Rovers & Associates  
 5900 Hollis Street, Suite A  
 Emeryville, CA 94608  
 Telephone: 510-420-0700  
 Fax: 510-420-9170

# BORING/WELL LOG

<b>CLIENT NAME</b>	Chevron Environmental Management Company	<b>BORING/WELL NAME</b>	VP-3
<b>JOB/SITE NAME</b>	9-0020	<b>DRILLING STARTED</b>	13-Jun-07
<b>LOCATION</b>	1633 Harrison Street, Oakland CA	<b>DRILLING COMPLETED</b>	13-Jun-07
<b>PROJECT NUMBER</b>	311956	<b>WELL DEVELOPMENT DATE (YIELD)</b>	NA
<b>DRILLER</b>	Vironex	<b>GROUND SURFACE ELEVATION</b>	Not Surveyed
<b>DRILLING METHOD</b>	Hand Auger	<b>TOP OF CASING ELEVATION</b>	Not Surveyed
<b>BORING DIAMETER</b>	2.75"	<b>SCREENED INTERVALS</b>	NA
<b>LOGGED BY</b>	Jeremy Gekov	<b>DEPTH TO WATER (First Encountered)</b>	NA
<b>REVIEWED BY</b>	B. Foss, RG# 7445	<b>DEPTH TO WATER (Static)</b>	NA
<b>REMARKS</b>	Hand cleared to 8 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		VP-3- S-3	0	SC		<b>Clayey SAND:</b> Brown; loose; 80% medium sand, 20% clay; moist; low plasticity; high estimated permeability.		
0		VP-3- S-5	5				7.0	
0		VP-3- S-9.5	10	SM		<b>SAND with silt:</b> Brown; loose; 85% medium sand, 15% silt; moist; non plastic; high estimated permeability.		
						Bottom of Boring @ 10.5 fbg	10.5	

WELL LOG (PID) I:\CHEVRON\9-0020-1\GINT\9-0020 VAPOR PROBE 6.13.07.GPJ DEFAULT.GDT 6/26/07





Conestoga-Rovers & Associates  
 5900 Hollis Street, Suite A  
 Emeryville, CA 94608  
 Telephone: 510-420-0700  
 Fax: 510-420-9170

# BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	VP-4
JOB/SITE NAME	9-0020	DRILLING STARTED	13-Jun-07
LOCATION	1633 Harrison Street, Oakland CA	DRILLING COMPLETED	13-Jun-07
PROJECT NUMBER	311956	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2.75"	SCREENED INTERVALS	NA
LOGGED BY	Jeremy Gekov	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		VP-4-S-3	0	SC		<b>Clayey SAND:</b> Brown; loose; 80% medium sand, 20% clay; moist; low plasticity; high estimated permeability.		
0		VP-4-S-5	5			@ 5 fbg grades to: 60% medium sand, 40% clay.		
0		VP-4-S-9.5	10	SM		<b>SAND with silt:</b> Brown; loose; 85% medium sand, 15% silt; moist; non plastic; high estimated permeability.	7.0	
						Bottom of Boring @ 11 fbg	11.0	

WELL LOG (PID) I:\CHEVRON\9-0020-1\GINT\9-0020 VAPOR PROBE 6.13.07.GPJ DEFAULT.GDT 6/26/07



Conestoga-Rovers & Associates  
 5900 Hollis Street, Suite A  
 Emeryville, CA 94608  
 Telephone: 510-420-0700  
 Fax: 510-420-9170

# BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	VP-5
JOB/SITE NAME	9-0020	DRILLING STARTED	13-Jun-07
LOCATION	1633 Harrison Street, Oakland CA	DRILLING COMPLETED	13-Jun-07
PROJECT NUMBER	311956	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2.75"	SCREENED INTERVALS	NA
LOGGED BY	Jeremy Gekov	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		VP-5-S-3	0			<b>SAND with silt:</b> Brown; loose; 85% medium sand, 15% silt; moist; non plastic; high estimated permeability.		
0		VP-5-S-5	5	SM				
0		VP-5-S-9.5	10				10.5	
						Bottom of Boring @ 10.5 fbg		

WELL LOG (PID) I:\CHEVRON\9-0020-1\GINT19-0020 VAPOR PROBE 6:13:07.GPJ DEFAULT.GDT 6/26/07



Conestoga-Rovers & Associates  
 5900 Hollis Street, Suite A  
 Emeryville, CA 94608  
 Telephone: 510-420-0700  
 Fax: 510-420-9170

# BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	VP-6
JOB/SITE NAME	9-0020	DRILLING STARTED	13-Jun-07
LOCATION	1633 Harrison Street, Oakland CA	DRILLING COMPLETED	13-Jun-07
PROJECT NUMBER	311956	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2.75"	SCREENED INTERVALS	NA
LOGGED BY	Jeremy Gekov	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Foss, RG# 7445	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		VP-6-S-3	0			<b>SAND with silt:</b> Brown; loose; 85% medium sand, 15% silt; moist; non plastic; high estimated permeability.		Portland Type I/II
0		VP-6-S-5	5	SM				Bentonite Seal
0		VP-6-S-9.5	10					Monterey Sand #2/16
						Bottom of Boring @ 10.5 fbg	10.5	Bentonite Seal
								Monterey Sand #2/16

WELL LOG (PID) I:\CHEVRON\9-0020-1\GINT19-0020 VAPOR PROBE 6.13.07.GPJ DEFAULT.GDT 6/26/07

**ATTACHMENT D**

**Soil and Vapor Laboratory Reports**



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2661 • www.lancasterlabs.com

# Analysis Report

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

### SAMPLE GROUP

The sample group for this submittal is 1042757. Samples arrived at the laboratory on Friday, June 15, 2007. The PO# for this group is 0015014975 and the release number is SINHA.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
VP-4-S-3-070613	Grab	Soil	5081080
VP-4-S-5-070613	Grab	Soil	5081081
VP-3-S-3-070613	Grab	Soil	5081082
VP-4-S-9.5-070613	Grab	Soil	5081083
VP-3-S-5.0-070613	Grab	Soil	5081084
VP-3-S-9.5-070613	Grab	Soil	5081085
VP-2-S-3.0-070613	Grab	Soil	5081086
VP-2-S-5.0-070613	Grab	Soil	5081087
VP-5-S-3.0-070613	Grab	Soil	5081088
VP-5-S-5.0-070613	Grab	Soil	5081089
VP-2-S-9.5-070613	Grab	Soil	5081090
VP-5-S-9.5-070613	Grab	Soil	5081091
VP-1-S-3.0-070613	Grab	Soil	5081092
VP-6-S-3-070613	Grab	Soil	5081093
VP-1-S-5-070613	Grab	Soil	5081094
VP-6-S-5-070613	Grab	Soil	5081095
VP-1-S-9.5-070613	Grab	Soil	5081096
VP-6-S-9.5-070613	Grab	Soil	5081097

ELECTRONIC COPY TO CRA

Attn: Charlotte Evans



## ***Analysis Report***

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Questions? Contact your Client Services Representative  
Angela M Miller at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Melissa A. McDermott".

Melissa A. McDermott  
Senior Chemist

**Lancaster Laboratories Sample No. SW 5081080**
**VP-4-S-3-070613**                      **Grab**              **Soil**  
**Facility# 90020**                      **CETE**  
**1633 Harrison-Oakland**              **T0600100304**      **VP-4**  
 Collected: 06/13/2007 08:20              by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP4-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1.01
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	1.01
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	1.01
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	1.01
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	1.01
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	1.01
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	1.01
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	1.01
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	1.01
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	1.01
05450	Methylene Chloride	75-09-2	0.002	0.002	mg/kg	1.01
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	1.01
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	1.01
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	1.01
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	1.01
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	1.01
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	0.001	0.001	mg/kg	1.01
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	1.01
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	1.01
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	1.01
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	1.01
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01



# Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. SW 5081080

VP-4-S-3-070613 Grab Soil  
Facility# 90020 CETE  
1633 Harrison-Oakland T0600100304 VP-4  
Collected: 06/13/2007 08:20 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
Reported: 06/20/2007 at 13:06  
Discard: 07/21/2007

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

VP4-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1.01
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1.01
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1.01
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1.01
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1.01
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1.01
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Analyst	Dilution Factor
			Trial#	Date and Time			
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 10:00		Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 13:54		Nicholas R Rossi	1.01
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 13:54		Nicholas R Rossi	1.01
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 19:47		Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 09:54		Nicholas R Rossi	n.a.





# Analysis Report

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Lancaster Laboratories Sample No. SW 5081081

VP-4-S-5-070613 Grab Soil  
Facility# 90020 CETE

1633 Harrison-Oakland T0600100304 VP-4

Collected: 06/13/2007 08:28 by JG Account Number: 10880

Submitted: 06/15/2007 09:50  
Reported: 06/20/2007 at 13:06  
Discard: 07/21/2007

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

VP4-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	1
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	1
05450	Methylene Chloride	75-09-2	0.003	0.002	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	1
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1



# Analysis Report

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Lancaster Laboratories Sample No. SW 5081081

VP-4-S-5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-4  
 Collected: 06/13/2007 08:28 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP4-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 10:36		Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 15:05		Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 15:05		Nicholas R Rossi	1
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 19:56		Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 09:58		Nicholas R Rossi	n.a.



# Analysis Report

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Lancaster Laboratories Sample No. SW 5081082

VP-3-S-3-070613 Grab Soil  
Facility# 90020 CETE  
1633 Harrison-Oakland T0600100304 VP-3  
Collected: 06/13/2007 08:49 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
Reported: 06/20/2007 at 13:06  
Discard: 07/21/2007

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

VP3-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	1
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	1
05450	Methylene Chloride	75-09-2	0.004	0.002	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	1
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1



# Analysis Report

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Lancaster Laboratories Sample No. SW 5081082

VP-3-S-3-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-3  
 Collected: 06/13/2007 08:49 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP3-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 11:12	Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 15:28	Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 15:28	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 09:59	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 19:57	Eric L Vera	n.a.

Lancaster Laboratories Sample No. SW 5081083

 VP-4-S-9.5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-4  
 Collected: 06/13/2007 09:00 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP4-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
06089	Ethanol	64-17-5	N.D.	0.099	mg/kg	0.99
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	0.99
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	0.99
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	0.99
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	0.99
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	0.99
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	0.99
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	0.99
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	0.99
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	0.99
05450	Methylene Chloride	75-09-2	0.002	0.002	mg/kg	0.99
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	0.99
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	0.99
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	0.99
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	0.99
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	0.99
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	0.99
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	0.99
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	0.99
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	0.99
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99



# Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. SW 5081083

VP-4-S-9.5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-4  
 Collected: 06/13/2007 09:00 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP4-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	0.99
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	0.99
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	0.99
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	0.99
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	0.99
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	0.99
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 11:48	Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 15:51	Nicholas R Rossi	0.99
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 15:51	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 10:01	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 19:58	Eric I. Vera	n.a.



# Analysis Report

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Page 1 of 2

Lancaster Laboratories Sample No. SW 5081084

VP-3-S-5.0-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-3  
 Collected: 06/13/2007 09:05 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP3-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
06089	Ethanol	64-17-5	N.D.	0.099	mg/kg	0.99
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	0.99
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	0.99
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	0.99
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	0.99
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	0.99
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	0.99
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	0.99
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	0.99
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	0.99
05450	Methylene Chloride	75-09-2	0.002	0.002	mg/kg	0.99
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	0.99
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	0.99
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	0.99
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	0.99
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	0.99
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	0.99
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	0.99
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	0.99
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	0.99
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99



# Analysis Report

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Lancaster Laboratories Sample No. SW 5081084

VP-3-S-5.0-070613 Grab Soil  
Facility# 90020 CETE  
1633 Harrison-Oakland T0600100304 VP-3  
Collected: 06/13/2007 09:05 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
Reported: 06/20/2007 at 13:06  
Discard: 07/21/2007

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

VP3-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	0.99
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	0.99
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	0.99
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	0.99
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	0.99
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	0.99
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 12:25		Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 16:15		Nicholas R Rossi	0.99
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 16:15		Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 10:02		Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 19:59		Eric L Vera	n.a.



Lancaster Laboratories Sample No. SW 5081085

 VP-3-S-9.5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-3  
 Collected: 06/13/2007 09:43 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP3-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	1
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	1
05450	Methylene Chloride	75-09-2	0.003	0.002	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	1
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1

Lancaster Laboratories Sample No. SW 5081085

 VP-3-S-9.5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-3  
 Collected: 06/13/2007 09:43 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP3-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007	13:01	Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007	16:38	Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007	16:38	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007	10:03	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007	20:01	Eric L Vera	n.a.

Lancaster Laboratories Sample No. SW 5081086

 VP-2-S-3.0-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-2  
 Collected: 06/13/2007 10:25 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP2-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	1
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	1
05450	Methylene Chloride	75-09-2	0.003	0.002	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	1
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1

**Lancaster Laboratories Sample No. SW 5081086**
**VP-2-S-3.0-070613 Grab Soil**  
**Facility# 90020 CETE**  
**1633 Harrison-Oakland T0600100304 VP-2**  
 Collected: 06/13/2007 10:25 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP2-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 13:37		Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 17:01		Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 17:01		Nicholas R Rossi	1
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 20:02		Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 10:05		Nicholas R Rossi	n.a.

Lancaster Laboratories Sample No. SW 5081087

 VP-2-S-5.0-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-2  
 Collected: 06/13/2007 10:45 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP2-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1.01
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	1.01
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	1.01
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	1.01
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	1.01
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	1.01
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	1.01
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	1.01
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	1.01
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	1.01
05450	Methylene Chloride	75-09-2	0.004	0.002	mg/kg	1.01
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	1.01
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	1.01
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	1.01
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	1.01
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	1.01
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	1.01
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	1.01
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	1.01
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	1.01
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01



# Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. SW 5081087

VP-2-S-5.0-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-2  
 Collected: 06/13/2007 10:45 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP2-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
05472	Chlorobenzene	108-90-7	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1.01
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1.01
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1.01
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1.01
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1.01
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1.01
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007	14:13	Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007	17:24	Nicholas R Rossi	1.01
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007	17:24	Nicholas R Rossi	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007	10:06	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007	20:04	Eric L Vera	n.a.



# Analysis Report

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Page 1 of 2

Lancaster Laboratories Sample No. SW 5081088

VP-5-S-3.0-070613 Grab Soil  
Facility# 90020 CETE  
1633 Harrison-Oakland T0600100304 VP-5  
Collected: 06/13/2007 10:50 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
Reported: 06/20/2007 at 13:06  
Discard: 07/21/2007

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

VP5-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	1
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	1
05450	Methylene Chloride	75-09-2	0.003	0.002	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	1
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1

**Lancaster Laboratories Sample No. SW 5081088**
**VP-5-S-3.0-070613 Grab Soil**  
**Facility# 90020 CETE**  
**1633 Harrison-Oakland T0600100304 VP-5**  
 Collected: 06/13/2007 10:50 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP5-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007	16:02	Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007	17:47	Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007	17:47	Nicholas R Rossi	1
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007	20:06	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007	15:12	Nicholas R Rossi	n.a.



Lancaster Laboratories Sample No. SW 5081089

 VP-5-S-5.0-070613 Grab Soil  
 Facility# 90020 CE TE  
 1633 Harrison-Oakland T0600100304 VP-5  
 Collected: 06/13/2007 11:00 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP5-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
06089	Ethanol	64-17-5	N.D.	0.099	mg/kg	0.99
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	0.99
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	0.99
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	0.99
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	0.99
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	0.99
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	0.99
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	0.99
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	0.99
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	0.99
05450	Methylene Chloride	75-09-2	0.004	0.002	mg/kg	0.99
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	0.99
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	0.99
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	0.99
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	0.99
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	0.99
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	0.99
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	0.99
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	0.99
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	0.99
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99

Lancaster Laboratories Sample No. SW 5081089

 VP-5-S-5.0-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-5  
 Collected: 06/13/2007 11:00 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP5-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	0.99
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	0.99
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	0.99
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	0.99
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	0.99
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	0.99
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 16:38		Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 18:10		Nicholas R Rossi	0.99
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 18:10		Nicholas R Rossi	0.99
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 20:08		Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 15:14		Nicholas R Rossi	n.a.

Lancaster Laboratories Sample No. SW 5081090

 VP-2-S-9.5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-2  
 Collected: 06/13/2007 11:18 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP2-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
06089	Ethanol	64-17-5	N.D.	0.099	mg/kg	0.99
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	0.99
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	0.99
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	0.99
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	0.99
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	0.99
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	0.99
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	0.99
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	0.99
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	0.99
05450	Methylene Chloride	75-09-2	0.004	0.002	mg/kg	0.99
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	0.99
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	0.99
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	0.99
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	0.99
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	0.99
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	0.99
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	0.99
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	0.99
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	0.99
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99



# Analysis Report

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Lancaster Laboratories Sample No. SW 5081090

VP-2-S-9.5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-2  
 Collected: 06/13/2007 11:18 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP2-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit 0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	0.99
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	0.99
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	0.99
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	0.99
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	0.99
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	0.99
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 17:14	Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 18:34	Nicholas R Rossi	0.99
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 18:34	Nicholas R Rossi	0.99
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 20:10	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 15:15	Nicholas R Rossi	n.a.

**Lancaster Laboratories Sample No. SW 5081091**
**VP-5-S-9.5-070613 Grab Soil**  
**Facility# 90020**  
**1633 Harrison-Oakland T0600100304 VP-5**  
**Collected:06/13/2007 11:55 by JG**
**CETE**

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP5-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1.01
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	1.01
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	1.01
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	1.01
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	1.01
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	1.01
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	1.01
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	1.01
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	1.01
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	1.01
05450	Methylene Chloride	75-09-2	0.004	0.002	mg/kg	1.01
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	1.01
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	1.01
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	1.01
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	1.01
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	1.01
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	1.01
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	1.01
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	1.01
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	1.01
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01

**Lancaster Laboratories Sample No. SW 5081091**
**VP-5-S-9.5-070613 Grab Soil**  
**Facility# 90020 CETE**  
**1633 Harrison-Oakland T0600100304 VP-5**  
**Collected: 06/13/2007 11:55 by JG**
**Account Number: 10880**
**Submitted: 06/15/2007 09:50**  
**Reported: 06/20/2007 at 13:06**  
**Discard: 07/21/2007**
**ChevronTexaco**  
**6001 Bollinger Canyon Rd L4310**  
**San Ramon CA 94583**

VP5-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1.01
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1.01
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1.01
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1.01
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1.01
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1.01
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 17:50		Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 18:57		Nicholas R Rossi	1.01
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 18:57		Nicholas R Rossi	1.01
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 20:13		Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 15:16		Nicholas R Rossi	n.a.

**Lancaster Laboratories Sample No. SW 5081092**
**VP-1-S-3.0-070613 Grab Soil**  
**Facility# 90020**  
**1633 Harrison-Oakland T0600100304 VP-1**  
 Collected: 06/13/2007 12:35 by JG **CETE**

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP1-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	48.	Detection Limit 4.0	mg/kg	100
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.003	mg/kg	5.05
02017	di-Isopropyl ether	108-20-3	N.D.	0.005	mg/kg	5.05
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.005	mg/kg	5.05
02019	t-Amyl methyl ether	994-05-8	N.D.	0.005	mg/kg	5.05
02020	t-Butyl alcohol	75-65-0	N.D.	0.10	mg/kg	5.05
06089	Ethanol	64-17-5	N.D.	0.51	mg/kg	5.05
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.005	mg/kg	5.05
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.005	mg/kg	5.05
08199	Freon 113	76-13-1	N.D.	0.010	mg/kg	5.05
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.010	mg/kg	5.05
05445	Vinyl Chloride	75-01-4	N.D.	0.005	mg/kg	5.05
05446	Bromomethane	74-83-9	N.D.	0.010	mg/kg	5.05
05447	Chloroethane	75-00-3	N.D.	0.010	mg/kg	5.05
05448	Trichlorofluoromethane	75-69-4	N.D.	0.010	mg/kg	5.05
05449	1,1-Dichloroethene	75-35-4	N.D.	0.005	mg/kg	5.05
05450	Methylene Chloride	75-09-2	0.017	0.010	mg/kg	5.05
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.005	mg/kg	5.05
05452	1,1-Dichloroethane	75-34-3	N.D.	0.005	mg/kg	5.05
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.005	mg/kg	5.05
05455	Chloroform	67-66-3	N.D.	0.005	mg/kg	5.05
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.005	mg/kg	5.05
05458	Carbon Tetrachloride	56-23-5	N.D.	0.005	mg/kg	5.05
05460	Benzene	71-43-2	N.D.	0.003	mg/kg	5.05
05461	1,2-Dichloroethane	107-06-2	N.D.	0.005	mg/kg	5.05
05462	Trichloroethene	79-01-6	N.D.	0.005	mg/kg	5.05
05463	1,2-Dichloropropane	78-87-5	N.D.	0.005	mg/kg	5.05
05465	Bromodichloromethane	75-27-4	N.D.	0.005	mg/kg	5.05
05466	Toluene	108-88-3	0.018	0.005	mg/kg	5.05
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.005	mg/kg	5.05
05468	Tetrachloroethene	127-18-4	N.D.	0.005	mg/kg	5.05
05470	Dibromochloromethane	124-48-1	N.D.	0.005	mg/kg	5.05
05471	1,2-Dibromoethane	106-93-4	N.D.	0.005	mg/kg	5.05

Lancaster Laboratories Sample No. SW 5081092

 VP-1-S-3.0-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-1  
 Collected: 06/13/2007 12:35 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP1-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Detection Limit	
05472	Chlorobenzene	108-90-7	N.D.		0.005	mg/kg 5.05
05474	Ethylbenzene	100-41-4	0.26		0.005	mg/kg 5.05
05475	m+p-Xylene	1330-20-7	1.2		0.005	mg/kg 5.05
05476	o-Xylene	95-47-6	0.73		0.005	mg/kg 5.05
05478	Bromoform	75-25-2	N.D.		0.005	mg/kg 5.05
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.005	mg/kg 5.05
05491	1,3-Dichlorobenzene	541-73-1	N.D.		0.005	mg/kg 5.05
05492	1,4-Dichlorobenzene	106-46-7	N.D.		0.005	mg/kg 5.05
05494	1,2-Dichlorobenzene	95-50-1	N.D.		0.005	mg/kg 5.05

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 18:27		Linda C Pape	100
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 21:17		Nicholas R Rossi	5.05
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 21:17		Nicholas R Rossi	5.05
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 20:15		Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 15:18		Nicholas R Rossi	n.a.



Lancaster Laboratories Sample No. SW 5081093

 VP-6-S-3-070613 Grab Soil CETE  
 Facility# 90020  
 1633 Harrison-Oakland T0600100304 VP-6  
 Collected: 06/13/2007 12:45 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP6-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	1
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	1
05450	Methylene Chloride	75-09-2	0.005	0.002	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	1
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1

Lancaster Laboratories Sample No. SW 5081093

 VP-6-S-3-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-6  
 Collected: 06/13/2007 12:45 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP6-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 19:02	Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 19:20	Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 19:20	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 15:20	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 20:16	Eric L Vera	n.a.



# Analysis Report

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Page 1 of 2

Lancaster Laboratories Sample No. SW 5081094

VP-1-S-5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-1  
 Collected: 06/13/2007 13:00 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP1-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	6.1		1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.		0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.		0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.		0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.		0.020	mg/kg	1.01
06089	Ethanol	64-17-5	N.D.		0.10	mg/kg	1.01
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.001	mg/kg	1.01
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.001	mg/kg	1.01
08199	Freon 113	76-13-1	N.D.		0.002	mg/kg	1.01
05441	EPA SW846/8260 (soil)						
05444	Chloromethane	74-87-3	N.D.		0.002	mg/kg	1.01
05445	Vinyl Chloride	75-01-4	N.D.		0.001	mg/kg	1.01
05446	Bromomethane	74-83-9	N.D.		0.002	mg/kg	1.01
05447	Chloroethane	75-00-3	N.D.		0.002	mg/kg	1.01
05448	Trichlorofluoromethane	75-69-4	N.D.		0.002	mg/kg	1.01
05449	1,1-Dichloroethene	75-35-4	N.D.		0.001	mg/kg	1.01
05450	Methylene Chloride	75-09-2	0.008		0.002	mg/kg	1.01
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		0.001	mg/kg	1.01
05452	1,1-Dichloroethane	75-34-3	N.D.		0.001	mg/kg	1.01
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		0.001	mg/kg	1.01
05455	Chloroform	67-66-3	N.D.		0.001	mg/kg	1.01
05457	1,1,1-Trichloroethane	71-55-6	N.D.		0.001	mg/kg	1.01
05458	Carbon Tetrachloride	56-23-5	N.D.		0.001	mg/kg	1.01
05460	Benzene	71-43-2	N.D.		0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.		0.001	mg/kg	1.01
05462	Trichloroethene	79-01-6	N.D.		0.001	mg/kg	1.01
05463	1,2-Dichloropropane	78-87-5	N.D.		0.001	mg/kg	1.01
05465	Bromodichloromethane	75-27-4	N.D.		0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.		0.001	mg/kg	1.01
05467	1,1,2-Trichloroethane	79-00-5	N.D.		0.001	mg/kg	1.01
05468	Tetrachloroethene	127-18-4	N.D.		0.001	mg/kg	1.01
05470	Dibromochloromethane	124-48-1	N.D.		0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.		0.001	mg/kg	1.01



# Analysis Report

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Lancaster Laboratories Sample No. SW 5081094

VP-1-S-5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-1  
 Collected: 06/13/2007 13:00 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP1-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1.01
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1.01
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1.01
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1.01
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1.01
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1.01
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007	19:38	Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007	19:44	Nicholas R Rossi	1.01
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007	19:44	Nicholas R Rossi	1.01
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007	20:18	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007	15:21	Nicholas R Rossi	n.a.

Lancaster Laboratories Sample No. SW 5081095

 VP-6-S-5-070613 Grab Soil  
 Facility# 90020 CE TE  
 1633 Harrison-Oakland T0600100304 VP-6  
 Collected: 06/13/2007 13:02 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP6-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	1
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	1
05450	Methylene Chloride	75-09-2	0.011	0.002	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	1
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1

Lancaster Laboratories Sample No. SW 5081095

VP-6-S-5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-6  
 Collected: 06/13/2007 13:02 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:06  
 Discard: 07/21/2007

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP6-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
05472	Chlorobenzene	108-90-7	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 20:15	Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 20:07	Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 20:07	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 15:23	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 20:20	Eric L Vera	n.a.

Lancaster Laboratories Sample No. SW 5081096

 VP-1-S-9.5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-1  
 Collected: 06/13/2007 13:30 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:07  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP1-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
06089	Ethanol	64-17-5	N.D.	0.099	mg/kg	0.99
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/kg	0.99
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/kg	0.99
08199	Freon 113	76-13-1	N.D.	0.002	mg/kg	0.99
05441	EPA SW846/8260 (soil)					
05444	Chloromethane	74-87-3	N.D.	0.002	mg/kg	0.99
05445	Vinyl Chloride	75-01-4	N.D.	0.001	mg/kg	0.99
05446	Bromomethane	74-83-9	N.D.	0.002	mg/kg	0.99
05447	Chloroethane	75-00-3	N.D.	0.002	mg/kg	0.99
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/kg	0.99
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	mg/kg	0.99
05450	Methylene Chloride	75-09-2	0.010	0.002	mg/kg	0.99
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	mg/kg	0.99
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/kg	0.99
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	mg/kg	0.99
05455	Chloroform	67-66-3	N.D.	0.001	mg/kg	0.99
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	mg/kg	0.99
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05462	Trichloroethene	79-01-6	N.D.	0.001	mg/kg	0.99
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/kg	0.99
05465	Bromodichloromethane	75-27-4	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	mg/kg	0.99
05468	Tetrachloroethene	127-18-4	N.D.	0.001	mg/kg	0.99
05470	Dibromochloromethane	124-48-1	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99

Lancaster Laboratories Sample No. SW 5081096

 VP-1-S-9.5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-1  
 Collected: 06/13/2007 13:30 by JG

Account Number: 10880

 Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:07  
 Discard: 07/21/2007

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP1-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	0.99
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	0.99
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	0.99
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	0.99
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	0.99
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	0.99
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 20:51		Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 20:30		Nicholas R Rossi	0.99
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 20:30		Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 15:24		Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 20:22		Eric L Vera	n.a.





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Lancaster Laboratories Sample No. SW 5081097

VP-6-S-9.5-070613 Grab Soil  
 Facility# 90020 CETE  
 1633 Harrison-Oakland T0600100304 VP-6  
 Collected: 06/13/2007 13:45 by JG Account Number: 10880

Submitted: 06/15/2007 09:50  
 Reported: 06/20/2007 at 13:07  
 Discard: 07/21/2007  
 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

VP6-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 start time.	n.a.	N.D.		1.0	mg/kg	25
03983	EPA SW 846/8260 - Soil						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.		0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.		0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.		0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.		0.020	mg/kg	0.99
06089	Ethanol	64-17-5	N.D.		0.099	mg/kg	0.99
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.001	mg/kg	0.99
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.001	mg/kg	0.99
08199	Freon 113	76-13-1	N.D.		0.002	mg/kg	0.99
05441	EPA SW846/8260 (soil)						
05444	Chloromethane	74-87-3	N.D.		0.002	mg/kg	0.99
05445	Vinyl Chloride	75-01-4	N.D.		0.001	mg/kg	0.99
05446	Bromomethane	74-83-9	N.D.		0.002	mg/kg	0.99
05447	Chloroethane	75-00-3	N.D.		0.002	mg/kg	0.99
05448	Trichlorofluoromethane	75-69-4	N.D.		0.002	mg/kg	0.99
05449	1,1-Dichloroethene	75-35-4	N.D.		0.001	mg/kg	0.99
05450	Methylene Chloride	75-09-2	0.011		0.002	mg/kg	0.99
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		0.001	mg/kg	0.99
05452	1,1-Dichloroethane	75-34-3	N.D.		0.001	mg/kg	0.99
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		0.001	mg/kg	0.99
05455	Chloroform	67-66-3	N.D.		0.001	mg/kg	0.99
05457	1,1,1-Trichloroethane	71-55-6	N.D.		0.001	mg/kg	0.99
05458	Carbon Tetrachloride	56-23-5	N.D.		0.001	mg/kg	0.99
05460	Benzene	71-43-2	N.D.		0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.		0.001	mg/kg	0.99
05462	Trichloroethene	79-01-6	N.D.		0.001	mg/kg	0.99
05463	1,2-Dichloropropane	78-87-5	N.D.		0.001	mg/kg	0.99
05465	Bromodichloromethane	75-27-4	N.D.		0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.		0.001	mg/kg	0.99
05467	1,1,2-Trichloroethane	79-00-5	N.D.		0.001	mg/kg	0.99
05468	Tetrachloroethene	127-18-4	N.D.		0.001	mg/kg	0.99
05470	Dibromochloromethane	124-48-1	N.D.		0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.		0.001	mg/kg	0.99



# Analysis Report

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Lancaster Laboratories Sample No. SW 5081097

VP-6-S-9.5-070613 Grab Soil  
Facility# 90020 CETE  
1633 Harrison-Oakland T0600100304 VP-6  
Collected: 06/13/2007 13:45 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
Reported: 06/20/2007 at 13:07  
Discard: 07/21/2007

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

VP6-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
05472	Chlorobenzene	108-90-7	N.D.	Detection Limit 0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
05475	m+p-Xylene	1330-20-7	N.D.	0.001	mg/kg	0.99
05476	o-Xylene	95-47-6	N.D.	0.001	mg/kg	0.99
05478	Bromoform	75-25-2	N.D.	0.001	mg/kg	0.99
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/kg	0.99
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/kg	0.99
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/kg	0.99
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	06/18/2007 21:27	Linda C Pape	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	06/18/2007 20:54	Nicholas R Rossi	0.99
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	06/18/2007 20:54	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	06/18/2007 15:25	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	06/15/2007 20:24	Eric L Vera	n.a.

## Quality Control Summary

 Client Name: ChevronTexaco  
 Reported: 06/20/07 at 01:07 PM

Group Number: 1042757

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max	
Batch number: 07169A34A	Sample number(s): 5081080-5081097								
TPH-GRO - Soils	N.D.	1.0	mg/kg	93		67-119			
Batch number: B071691AA	Sample number(s): 5081080-5081097								
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	103		72-117			
di-Isopropyl ether	N.D.	0.001	mg/kg	102		72-120			
Ethyl t-butyl ether	N.D.	0.001	mg/kg	101		72-115			
t-Amyl methyl ether	N.D.	0.001	mg/kg	101		73-116			
t-Butyl alcohol	N.D.	0.020	mg/kg	95		52-153			
Chloromethane	N.D.	0.002	mg/kg	73		58-123			
Vinyl Chloride	N.D.	0.001	mg/kg	77		60-118			
Bromomethane	N.D.	0.002	mg/kg	92		61-118			
Chloroethane	N.D.	0.002	mg/kg	89		63-120			
Trichlorofluoromethane	N.D.	0.002	mg/kg	94		58-125			
1,1-Dichloroethene	N.D.	0.001	mg/kg	102		74-115			
Methylene Chloride	0.003	0.002	mg/kg	96		75-120			
trans-1,2-Dichloroethene	N.D.	0.001	mg/kg	102		77-113			
1,1-Dichloroethane	N.D.	0.001	mg/kg	106		82-116			
cis-1,2-Dichloroethene	N.D.	0.001	mg/kg	99		84-113			
Chloroform	N.D.	0.001	mg/kg	109		81-117			
1,1,1-Trichloroethane	N.D.	0.001	mg/kg	109		74-127			
Carbon Tetrachloride	N.D.	0.001	mg/kg	106		76-122			
Benzene	N.D.	0.0005	mg/kg	101		84-115			
1,2-Dichloroethane	N.D.	0.001	mg/kg	113		76-126			
Trichloroethene	N.D.	0.001	mg/kg	104		81-114			
1,2-Dichloropropane	N.D.	0.001	mg/kg	105		78-119			
Bromodichloromethane	N.D.	0.001	mg/kg	108		77-116			
Toluene	N.D.	0.001	mg/kg	100		81-116			
1,1,2-Trichloroethane	N.D.	0.001	mg/kg	101		81-112			
Tetrachloroethene	N.D.	0.001	mg/kg	97		70-117			
Dibromochloromethane	N.D.	0.001	mg/kg	103		80-113			
1,2-Dibromoethane	N.D.	0.001	mg/kg	104		77-114			
Chlorobenzene	N.D.	0.001	mg/kg	98		81-112			
Ethylbenzene	N.D.	0.001	mg/kg	100		82-115			
m+p-Xylene	N.D.	0.001	mg/kg	96		82-117			
o-Xylene	N.D.	0.001	mg/kg	96		82-117			
Bromoform	N.D.	0.001	mg/kg	98		63-120			
1,1,2,2-Tetrachloroethane	N.D.	0.001	mg/kg	103		64-121			
1,3-Dichlorobenzene	N.D.	0.001	mg/kg	90		76-112			
1,4-Dichlorobenzene	N.D.	0.001	mg/kg	90		78-108			
1,2-Dichlorobenzene	N.D.	0.001	mg/kg	88		81-109			
Ethanol	N.D.	0.10	mg/kg	89		48-149			
trans-1,3-Dichloropropene	N.D.	0.001	mg/kg	102		79-112			
cis-1,3-Dichloropropene	N.D.	0.001	mg/kg	103		80-111			
Freon 113	N.D.	0.002	mg/kg	87		62-112			

\*. Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

 Client Name: ChevronTexaco  
 Reported: 06/20/07 at 01:07 PM

Group Number: 1042757

### Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 07169A34A	Sample number(s): 5081080-5081097 UNSPK: P071577								
TPH-GRO - Soils	76	76	39-118	0	30				
Batch number: B071691AA	Sample number(s): 5081080-5081097 UNSPK: 5081080								
Methyl Tertiary Butyl Ether	103	96	47-130	7	30				
di-Isopropyl ether	97	96	58-113	1	30				
Ethyl t-butyl ether	97	91	60-112	5	30				
t-Amyl methyl ether	99	94	63-112	5	30				
t-Butyl alcohol	98	99	51-134	1	30				
Chloromethane	66	66	38-115	1	30				
Vinyl Chloride	69	66	48-113	4	30				
Bromomethane	83	81	50-114	2	30				
Chloroethane	79	79	52-114	0	30				
Trichlorofluoromethane	86	85	49-127	1	30				
1,1-Dichloroethene	93	88	56-113	5	30				
Methylene Chloride	89	85	42-131	4	30				
trans-1,2-Dichloroethene	93	90	60-110	2	30				
1,1-Dichloroethane	97	97	65-115	0	30				
cis-1,2-Dichloroethene	92	92	67-110	0	30				
Chloroform	101	101	69-117	1	30				
1,1,1-Trichloroethane	99	97	64-118	2	30				
Carbon Tetrachloride	97	94	56-120	3	30				
Benzene	94	92	59-120	1	30				
1,2-Dichloroethane	106	101	62-130	5	30				
Trichloroethene	97	92	48-124	4	30				
1,2-Dichloropropane	96	97	64-112	1	30				
Bromodichloromethane	103	99	57-117	4	30				
Toluene	93	90	38-131	3	30				
1,1,2-Trichloroethane	100	94	64-118	6	30				
Tetrachloroethene	89	86	40-140	3	30				
Dibromochloromethane	100	97	58-113	4	30				
1,2-Dibromoethane	102	95	66-108	7	30				
Chlorobenzene	92	90	58-109	1	30				
Ethylbenzene	92	91	54-116	1	30				
m+p-Xylene	90	88	44-127	3	30				
o-Xylene	90	89	44-127	1	30				
Bromoform	100	92	54-114	8	30				
1,1,2,2-Tetrachloroethane	110	103	37-142	6	30				
1,3-Dichlorobenzene	90	89	47-109	1	30				
1,4-Dichlorobenzene	90	89	47-109	0	30				
1,2-Dichlorobenzene	90	89	50-111	0	30				
Ethanol	83	88	33-155	6	30				
trans-1,3-Dichloropropene	98	95	60-110	2	30				
cis-1,3-Dichloropropene	98	97	56-112	0	30				
Freon 113	81	79	45-107	2	30				

### Surrogate Quality Control

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 06/20/07 at 01:07 PM

Group Number: 1042757

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO - Soils  
Batch number: 07169A34A  
Trifluorotoluene-F

5081080	71
5081081	74
5081082	72
5081083	73
5081084	72
5081085	73
5081086	72
5081087	74
5081088	71
5081089	69
5081090	64
5081091	68
5081092	22*
5081093	70
5081094	75
5081095	69
5081096	73
5081097	75
Blank	87
LCS	84
MS	71
MSD	72

Limits: 61-122

Analysis Name: EPA SW846/8260 (soil)  
Batch number: B071691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5081080	99	91	99	94
5081081	99	95	98	94
5081082	101	98	98	94
5081083	100	94	98	94
5081084	99	92	98	95
5081085	102	94	98	96
5081086	101	92	99	94
5081087	102	95	97	95
5081088	102	98	97	95
5081089	102	95	98	94
5081090	102	95	99	94
5081091	102	93	98	94
5081092	102	92	104	88
5081093	103	94	98	94
5081094	104	97	98	98
5081095	102	96	98	93
5081096	102	91	100	95
5081097	103	96	99	94
Blank	102	101	98	95
LCS	102	98	99	100
MS	102	96	98	99
MSD	102	94	99	98

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 06/20/07 at 01:07 PM

Group Number: 1042757

### Surrogate Quality Control

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Limits:      71-114                      70-109                      70-123                      70-111

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

# Chevron California Region Analysis Request/Chain of Custody



244124

For Lancaster Laboratories use only  
 Acct. #: 10860 Sample #: 5081080-7 SCR#: \_\_\_\_\_  
 GF 109777

061407 - 1 of 2

Facility #: 9-0020 A1L  
 Site Address: 1633 Harrison St., Oakland  
 Chevron PM: S. Sinha Lead Consultant: CRA  
 Consultant/Office: CRA-Emeryville  
 Consultant Prj. Mgr.: C Evans  
 Consultant Phone #: 510-420-3351 Fax #: 510-420-9170  
 Sampler: J Bekov  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Analyses Requested									
Preservation Codes									
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>   O = Other

J value reporting needed  
 Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation  
 Confirm highest hit by 8260  
 Confirm all hits by 8260  
 Run \_\_\_ oxy's on highest hit  
 Run \_\_\_ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan - HVOCS	7 Oxygenates	Lead 7420 7421	Ethanol
VP-4 @ 3'	Soil		3'	070613	08:20	Y	X		1	X	X	X	X	X	X	X
VP-4 @ 5'			5'		08:28				1	X	X	X	X	X	X	X
VP-3 @ 3'			3'		08:49				1	X	X	X	X	X	X	X
VP-4 @ 9.5'			9.5'		09:00				1	X	X	X	X	X	X	X
VP-3 @ 5.0'			5'		09:05				1	X	X	X	X	X	X	X
VP-3 @ 9.5'			9.5'		09:43				1	X	X	X	X	X	X	X
VP-2 @ 3.0'			3'		10:25				1	X	X	X	X	X	X	X
VP-2 @ 5.0'			5'		10:45				1	X	X	X	X	X	X	X
VP-5 @ 3.0'			3'		10:50				1	X	X	X	X	X	X	X
VP-5 @ 5.0'			5'		11:00				1	X	X	X	X	X	X	X
VP-2 @ 9.5'			9.5'		11:18				1	X	X	X	X	X	X	X
VP-5 @ 9.5'			9.5'		11:55				1	X	X	X	X	X	X	X
VP-1 @ 3.0'			3'		12:35				1	X	X	X	X	X	X	X

**Comments / Remarks**  
 Please have results by Tuesday 06/19 send to cevans@craworld.com

**Turnaround Time Requested (TAT)** (please circle)  
 STD. TAT    72 hour    48 hour  
 24 hour    4 day    5 day

**Data Package Options** (please circle if required)  
 QC Summary    Type I - Full  
 Type VI (Raw Data)     Coelt Deliverable not needed  
 WIP (RWQCB)  
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>6/14/07</u>	Time: <u>0925</u>	Received by: <u>[Signature]</u>	Date: <u>6/14/07</u>	Time: <u>0925</u>
Relinquished by: <u>[Signature]</u>	Date: <u>6/14/07</u>	Time: <u>1530</u>	Received by: <u>DHL</u>	Date: <u>6/14/07</u>	Time: <u>1530</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by Commercial Carrier: <u>DHL</u>	UPS	FedEx	Other	Received by: <u>Kathy Binkley</u>	Date: <u>6-15-07</u> Time: <u>0950</u>
Temperature Upon Receipt: <u>11-3.60 Rangeo</u>	Custody Seals Intact? <u>(Yes)</u> <input type="checkbox"/> No <input type="checkbox"/>				

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only 244125  
 Acct. #: 10460 Sample #: 9061060-93 SCR#: \_\_\_\_\_  
611042732

061407-02 (2 of 2)

### Analyses Requested

#### Preservation Codes

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>   O = Other

- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds

- 8021 MTBE Confirmation**
- Confirm highest hit by 8260
  - Confirm all hits by 8260
  - Run \_\_\_ oxy's on highest hit
  - Run \_\_\_ oxy's on all hits

Facility #: 9-0020 A1L  
 Site Address: 1633 Harrison St, Oakland  
 Chevron PM: S. Siala Lead Consultant: CRA  
 Consultant/Office: CRA - Emeryville  
 Consultant Prj. Mgr.: C Evans  
 Consultant Phone #: 510-420-3351 Fax #: 510-420-9170  
 Sampler: J. Gekov  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/>	TPH 8015 MOD GRO	TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup	8260 full scan <b>HVOCs</b>	Z Oxygenates	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>	<u>Ethanol</u>
VP-6 @ 3'	Soil		3'	070613	12:45	Y	X		1	X	X	X	X	X	X	
VP-1 @ 5'	↓		5'	↓	13:00	↓	↓		1	X	X	X	X	X	X	
VP-6 @ 5'	↓		5'	↓	13:02	↓	↓		1	X	X	X	X	X	X	
VP-1 @ 9.5'	↓		9.5'	↓	13:30	↓	↓		1	X	X	X	X	X	X	
VP-6 @ 9.5'	↓		9.5'	↓	13:45	↓	↓		1	X	X	X	X	X	X	

#### Comments / Remarks

Please have results by Tuesday 6/19 A email to cevas  
 cevas@craworld.com

Turnaround Time Requested (TAT) (please circle) STD. TAT <u>72 hour</u> 48 hour 24 hour      4 day      5 day	Relinquished by: <u>[Signature]</u>	Date: <u>6/14/07</u>	Time: <u>0905</u>	Received by: <u>[Signature]</u>	Date: <u>6/14/07</u>	Time: <u>0925</u>
	Relinquished by: <u>[Signature]</u>	Date: <u>6/14/07</u>	Time: <u>1530</u>	Received by: <u>SHL</u>	Date: <u>6/14/07</u>	Time: <u>1530</u>
Data Package Options (please circle if required) QC Summary      Type I - Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk	Relinquished by Commercial Carrier: <u>DHL</u>	UPS      FedEx      Other	Received by: <u>Roddy Binkley</u>	Date: <u>6-15-07</u>	Time: <u>0950</u>	
	Temperature Upon Receipt: <u>11-31.6°C Range</u>	Custody Seals Intact? <u>Yes</u> <input type="checkbox"/> No				



## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers	Inorganic Qualifiers
<b>A</b> TIC is a possible aldol-condensation product	<b>B</b> Value is <CRDL, but ≥IDL
<b>B</b> Analyte was also detected in the blank	<b>E</b> Estimated due to interference
<b>C</b> Pesticide result confirmed by GC/MS	<b>M</b> Duplicate injection precision not met
<b>D</b> Compound quantitated on a diluted sample	<b>N</b> Spike amount not within control limits
<b>E</b> Concentration exceeds the calibration range of the instrument	<b>S</b> Method of standard additions (MSA) used for calculation
<b>J</b> Estimated value	<b>U</b> Compound was not detected
<b>N</b> Presumptive evidence of a compound (TICs only)	<b>W</b> Post digestion spike out of control limits
<b>P</b> Concentration difference between primary and confirmation columns >25%	<b>*</b> Duplicate analysis not within control limits
<b>U</b> Compound was not detected	<b>+</b> Correlation coefficient for MSA <0.995
<b>X,Y,Z</b> Defined in case narrative	

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0706375B**

Work Order Summary

<b>CLIENT:</b>	Ms. Charlotte Evans Conestoga-Rovers Associates 5900 Hollis Street Suite A Emeryville, CA 94608	<b>BILL TO:</b>	Ms. Charlotte Evans Conestoga-Rovers Associates 5900 Hollis Street Suite A Emeryville, CA 94608
<b>PHONE:</b>	510-420-3351	<b>P.O. #</b>	311956
<b>FAX:</b>	510-420-9170	<b>PROJECT #</b>	311956 9-0020
<b>DATE RECEIVED:</b>	06/19/2007	<b>CONTACT:</b>	Kyle Vagadori
<b>DATE COMPLETED:</b>	06/21/2007		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	VP-1@5	Modified TO-3	4.0 "Hg
01AA	VP-1@5 Lab Duplicate	Modified TO-3	4.0 "Hg
02A	VP-1@10	Modified TO-3	4.0 "Hg
03A	VP-6@5	Modified TO-3	4.0 "Hg
04A	VP-6@10	Modified TO-3	4.0 "Hg
05A	VP-5@5	Modified TO-3	4.5 "Hg
06A	VP-5@10	Modified TO-3	4.0 "Hg
07A	VP-5@10 DUP	Modified TO-3	5.0 "Hg
08A	VP-4@5	Modified TO-3	5.0 "Hg
09A	VP-4@10	Modified TO-3	4.5 "Hg
10A	VP-3@5	Modified TO-3	5.0 "Hg
11A	VP-3@5 DUP	Modified TO-3	5.0 "Hg
12A	VP-3@10	Modified TO-3	5.0 "Hg
13A	VP-2@5	Modified TO-3	5.5 "Hg
14A	VP-2@10	Modified TO-3	5.0 "Hg
14AA	VP-2@10 Lab Duplicate	Modified TO-3	5.0 "Hg
15A	Trip Blank	Modified TO-3	27.5 "Hg

Continued on next page

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



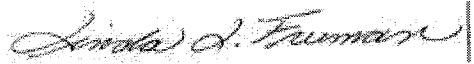
AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0706375B**

Work Order Summary

<b>CLIENT:</b>	Ms. Charlotte Evans Conestoga-Rovers Associates 5900 Hollis Street Suite A Emeryville, CA 94608	<b>BILL TO:</b>	Ms. Charlotte Evans Conestoga-Rovers Associates 5900 Hollis Street Suite A Emeryville, CA 94608
<b>PHONE:</b>	510-420-3351	<b>P.O. #</b>	311956
<b>FAX:</b>	510-420-9170	<b>PROJECT #</b>	311956 9-0020
<b>DATE RECEIVED:</b>	06/19/2007	<b>CONTACT:</b>	Kyle Vagadori
<b>DATE COMPLETED:</b>	06/21/2007		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
16A	Lab Blank	Modified TO-3	NA
17A	LCS	Modified TO-3	NA

CERTIFIED BY:   
 Laboratory Director

DATE: 06/21/07

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
 NY NELAP - 11291, UT NELAP - 9166389892  
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
 Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07  
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards  
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**LABORATORY NARRATIVE  
Modified TO-3  
Conestoga-Rovers Associates  
Workorder# 0706375B**

Fifteen 1 Liter Summa Canister (100% Certified) samples were received on June 19, 2007. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. See the data sheets for the reporting limits for each compound.

<i>Requirement</i>	<i>TO-3</i>	<i>ATL Modifications</i>
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch <=/= 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation $DL = A + 3.3S$ , where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

**Receiving Notes**

The Chain of Custody (COC) information for samples VP-1@5 and VP-5@10 DUP did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the samples.

**Analytical Notes**

The recovery of surrogate Fluorobenzene in samples VP-1@5 Lab Duplicate and VP-1@10 was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

**Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:



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- B - Compound present in laboratory blank greater than reporting limit.
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



AN ENVIRONMENTAL ANALYTICAL LABORATORY

## Summary of Detected Compounds MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: VP-1@5

Lab ID#: 0706375B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	1.2	4.8	260	1000
TPH (Gasoline Range)	1.2	4.8	260	1100

Client Sample ID: VP-1@5 Lab Duplicate

Lab ID#: 0706375B-01AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	1.2	4.8	270	1100
TPH (Gasoline Range)	1.2	4.8	280	1100

Client Sample ID: VP-1@10

Lab ID#: 0706375B-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	2.3	9.5	630	2600
TPH (Gasoline Range)	2.3	9.5	640	2600

Client Sample ID: VP-6@5

Lab ID#: 0706375B-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.058	0.24	10	41
TPH (Gasoline Range)	0.058	0.24	9.3	38

Client Sample ID: VP-6@10

Lab ID#: 0706375B-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.058	0.24	4.1	17
TPH (Gasoline Range)	0.058	0.24	3.8	15

Client Sample ID: VP-5@5

Lab ID#: 0706375B-05A



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## Summary of Detected Compounds MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: VP-5@5

Lab ID#: 0706375B-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.24	4.9	20
TPH (Gasoline Range)	0.060	0.24	4.7	19

Client Sample ID: VP-5@10

Lab ID#: 0706375B-06A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.058	0.24	2.0	8.1
TPH (Gasoline Range)	0.058	0.24	1.7	6.9

Client Sample ID: VP-5@10 DUP

Lab ID#: 0706375B-07A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	1.2	4.9
TPH (Gasoline Range)	0.060	0.25	1.0	4.3

Client Sample ID: VP-4@5

Lab ID#: 0706375B-08A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	3.5	14
TPH (Gasoline Range)	0.060	0.25	3.2	13

Client Sample ID: VP-4@10

Lab ID#: 0706375B-09A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.24	2.5	10
TPH (Gasoline Range)	0.060	0.24	2.4	9.8

Client Sample ID: VP-3@5

Lab ID#: 0706375B-10A



AN ENVIRONMENTAL ANALYTICAL LABORATORY

### Summary of Detected Compounds MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: VP-3@5

Lab ID#: 0706375B-10A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	2.2	9.1
TPH (Gasoline Range)	0.060	0.25	2.0	8.2

Client Sample ID: VP-3@5 DUP

Lab ID#: 0706375B-11A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	2.2	9.1
TPH (Gasoline Range)	0.060	0.25	2.0	8.2

Client Sample ID: VP-3@10

Lab ID#: 0706375B-12A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	2.6	11
TPH (Gasoline Range)	0.060	0.25	2.5	10

Client Sample ID: VP-2@5

Lab ID#: 0706375B-13A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.062	0.25	2.3	9.3
TPH (Gasoline Range)	0.062	0.25	2.2	8.9

Client Sample ID: VP-2@10

Lab ID#: 0706375B-14A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	1.0	4.3
TPH (Gasoline Range)	0.060	0.25	0.99	4.0

Client Sample ID: VP-2@10 Lab Duplicate

Lab ID#: 0706375B-14AA





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## Summary of Detected Compounds MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: VP-2@10 Lab Duplicate

Lab ID#: 0706375B-14AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	1.1	4.5
TPH (Gasoline Range)	0.060	0.25	1.0	4.2

Client Sample ID: Trip Blank

Lab ID#: 0706375B-15A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-1@5

Lab ID#: 0706375B-01A

**MODIFIED EPA METHOD TO-3 GC/FID**

File Name:	d061904	Date of Collection:	6/18/07
Dil. Factor:	46.6	Date of Analysis:	6/19/07 03:53 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	1.2	4.8	260	1000
TPH (Gasoline Range)	1.2	4.8	260	1100

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	148	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-1@5 Lab Duplicate

Lab ID#: 0706375B-01AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061913	Date of Collection:	6/18/07
Dil. Factor:	46.6	Date of Analysis:	6/19/07 08:38 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	1.2	4.8	270	1100
TPH (Gasoline Range)	1.2	4.8	280	1100

Q = Exceeds Quality Control limits, due to matrix effects. Matrix effects confirmed by re-analysis.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	181 Q	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-1@10

Lab ID#: 0706375B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061905	Date of Collection:	6/18/07
Dil. Factor:	93.2	Date of Analysis:	6/19/07 04:25 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	2.3	9.5	630	2600
TPH (Gasoline Range)	2.3	9.5	640	2600

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	181 Q	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-6@5

Lab ID#: 0706375B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061906	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/19/07 04:54 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.058	0.24	10	41
TPH (Gasoline Range)	0.058	0.24	9.3	38

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	125	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-6@10

Lab ID#: 0706375B-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061907	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/19/07 05:22 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.058	0.24	4.1	17
TPH (Gasoline Range)	0.058	0.24	3.8	15

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	97	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-5@5

Lab ID#: 0706375B-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061908	Date of Collection:	6/18/07
Dil. Factor:	2.38	Date of Analysis:	6/19/07 05:51 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.24	4.9	20
TPH (Gasoline Range)	0.060	0.24	4.7	19

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	100	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-5@10

Lab ID#: 0706375B-06A

**MODIFIED EPA METHOD TO-3 GC/FID**

File Name:	d061909	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/19/07 06:27 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.058	0.24	2.0	8.1
TPH (Gasoline Range)	0.058	0.24	1.7	6.9

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	94	75-150





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-5@10 DUP

Lab ID#: 0706375B-07A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061910	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/19/07 07:04 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	1.2	4.9
TPH (Gasoline Range)	0.060	0.25	1.0	4.3

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	98	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-4@5

Lab ID#: 0706375B-08A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061911	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/19/07 07:39 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	3.5	14
TPH (Gasoline Range)	0.060	0.25	3.2	13

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-4@10

Lab ID#: 0706375B-09A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061912	Date of Collection:	6/18/07
Dil. Factor:	2.38	Date of Analysis:	6/19/07 08:05 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.24	2.5	10
TPH (Gasoline Range)	0.060	0.24	2.4	9.8

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	94	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-3@5

Lab ID#: 0706375B-10A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061914	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/19/07 09:26 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	2.2	9.1
TPH (Gasoline Range)	0.060	0.25	2.0	8.2

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-3@5 DUP

Lab ID#: 0706375B-11A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061915	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/19/07 09:59 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	2.2	9.1
TPH (Gasoline Range)	0.060	0.25	2.0	8.2

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	98	75-150



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Client Sample ID: VP-3@10

Lab ID#: 0706375B-12A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061916	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/19/07 10:25 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	2.6	11
TPH (Gasoline Range)	0.060	0.25	2.5	10

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	94	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-2@5

Lab ID#: 0706375B-13A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061917	Date of Collection:	6/18/07
Dil. Factor:	2.47	Date of Analysis:	6/19/07 10:52 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.062	0.25	2.3	9.3
TPH (Gasoline Range)	0.062	0.25	2.2	8.9

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	94	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-2@10

Lab ID#: 0706375B-14A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061918	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/19/07 11:38 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	1.0	4.3
TPH (Gasoline Range)	0.060	0.25	0.99	4.0

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	76	75-150





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-2@10 Lab Duplicate

Lab ID#: 0706375B-14AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061920	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 01:14 AM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.060	0.25	1.1	4.5
TPH (Gasoline Range)	0.060	0.25	1.0	4.2

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	101	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0706375B-15A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061919	Date of Collection:	6/18/07
Dil. Factor:	1.00	Date of Analysis:	6/20/07 12:24 AM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	Not Detected	Not Detected
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	84	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0706375B-16A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d061902	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/19/07 02:43 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	Not Detected	Not Detected
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	99	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0706375B-17A

**MODIFIED EPA METHOD TO-3 GC/FID**

File Name:	d061921	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/20/07 01:45 AM

Compound	%Recovery
TPH (C2+ Hydrocarbons) ref. to Gasoline	93
TPH (Gasoline Range)	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	100	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0706375A**

Work Order Summary

**CLIENT:** Ms. Charlotte Evans  
Conestoga-Rovers Associates  
5900 Hollis Street  
Suite A  
Emeryville, CA 94608

**PHONE:** 510-420-3351  
**FAX:** 510-420-9170  
**DATE RECEIVED:** 06/19/2007  
**DATE COMPLETED:** 06/21/2007

**BILL TO:** Ms. Charlotte Evans  
Conestoga-Rovers Associates  
5900 Hollis Street  
Suite A  
Emeryville, CA 94608

**P.O. #** 311956  
**PROJECT #** 311956 9-0020  
**CONTACT:** Kyle Vagadori

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	VP-1@5	Modified TO-15	4.0 "Hg
02A	VP-1@10	Modified TO-15	4.0 "Hg
03A	VP-6@5	Modified TO-15	4.0 "Hg
04A	VP-6@10	Modified TO-15	4.0 "Hg
05A	VP-5@5	Modified TO-15	4.5 "Hg
06A	VP-5@10	Modified TO-15	4.0 "Hg
07A	VP-5@10 DUP	Modified TO-15	5.0 "Hg
08A	VP-4@5	Modified TO-15	5.0 "Hg
09A	VP-4@10	Modified TO-15	4.5 "Hg
09AA	VP-4@10 Lab Duplicate	Modified TO-15	4.5 "Hg
10A	VP-3@5	Modified TO-15	5.0 "Hg
11A	VP-3@5 DUP	Modified TO-15	5.0 "Hg
12A	VP-3@10	Modified TO-15	5.0 "Hg
13A	VP-2@5	Modified TO-15	5.5 "Hg
14A	VP-2@10	Modified TO-15	5.0 "Hg
15A	Trip Blank	Modified TO-15	27.5 "Hg
16A	Lab Blank	Modified TO-15	NA

Continued on next page

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020




AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0706375A**

Work Order Summary

<b>CLIENT:</b>	Ms. Charlotte Evans Conestoga-Rovers Associates 5900 Hollis Street Suite A Emeryville, CA 94608	<b>BILL TO:</b>	Ms. Charlotte Evans Conestoga-Rovers Associates 5900 Hollis Street Suite A Emeryville, CA 94608
<b>PHONE:</b>	510-420-3351	<b>P.O. #</b>	311956
<b>FAX:</b>	510-420-9170	<b>PROJECT #</b>	311956 9-0020
<b>DATE RECEIVED:</b>	06/19/2007	<b>CONTACT:</b>	Kyle Vagadori
<b>DATE COMPLETED:</b>	06/21/2007		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
16B	Lab Blank	Modified TO-15	NA
17A	CCV	Modified TO-15	NA
17B	CCV	Modified TO-15	NA
18A	LCS	Modified TO-15	NA
18B	LCS	Modified TO-15	NA

CERTIFIED BY:   
 Laboratory Director

DATE: 06/21/07

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
 NY NELAP - 11291, UT NELAP - 9166389892  
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
 Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07  
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE  
Modified TO-15  
Conestoga-Rovers Associates  
Workorder# 0706375A**

Fifteen 1 Liter Summa Canister (100% Certified) samples were received on June 19, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	+/- 30% Difference	<=/= 30% Difference with two allowed out up to <=/=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

**Receiving Notes**

The Chain of Custody (COC) information for samples VP-1@5 and VP-5@10 DUP did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the samples.

**Analytical Notes**

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor



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phase or for efficiency of recovery through the analytical system.

The recovery of surrogate 1,2-Dichloroethane-d4 in sample VP-1@10 was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

**Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue





AN ENVIRONMENTAL ANALYTICAL LABORATORY

## Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-1@5

Lab ID#: 0706375A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	16	34	50	110
Toluene	16	58	58	220
Ethyl Benzene	16	110	68	480
m,p-Xylene	16	240	68	1000
o-Xylene	16	140	68	610

Client Sample ID: VP-1@10

Lab ID#: 0706375A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.8	820	18	2600
Toluene	5.8	520	22	2000
Ethyl Benzene	5.8	1100	25	4800
m,p-Xylene	5.8	1100	25	4800
o-Xylene	5.8	1200	25	5000
Naphthalene	23	140	120	740

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Butane	106-97-8	42%	76 N J

Client Sample ID: VP-6@5

Lab ID#: 0706375A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	8.8	3.7	28
Toluene	1.2	84	4.4	320
Ethyl Benzene	1.2	30	5.0	130
m,p-Xylene	1.2	74	5.0	320
o-Xylene	1.2	36	5.0	150
Naphthalene	4.7	20	24	110

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	4.0%	96 N J



AN ENVIRONMENTAL ANALYTICAL LABORATORY

## Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-6@5

Lab ID#: 0706375A-03A

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Butane	106-97-8	12%	36 N J

Client Sample ID: VP-6@10

Lab ID#: 0706375A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	6.3	3.7	20
Toluene	1.2	120	4.4	450
Ethyl Benzene	1.2	22	5.0	95
m,p-Xylene	1.2	76	5.0	330
o-Xylene	1.2	25	5.0	110
Naphthalene	4.7	5.5	24	29

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Butane	106-97-8	9.0%	65 N J

Client Sample ID: VP-5@5

Lab ID#: 0706375A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	11	3.8	35
Toluene	1.2	220	4.5	820
Ethyl Benzene	1.2	38	5.2	160
m,p-Xylene	1.2	140	5.2	590
o-Xylene	1.2	45	5.2	200
Chloroform	0.71	1.3	3.5	6.4

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	2.0%	230 N J
Butane	106-97-8	9.0%	110 N J



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Summary of Detected Compounds  
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

Client Sample ID: VP-5@10

Lab ID#: 0706375A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	2.8	3.7	9.0
Toluene	1.2	43	4.4	160
Ethyl Benzene	1.2	9.7	5.0	42
m,p-Xylene	1.2	30	5.0	130
o-Xylene	1.2	15	5.0	65

**TENTATIVELY IDENTIFIED COMPOUNDS**

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	35%	21 N J
Butane	106-97-8	10%	21 N J

Client Sample ID: VP-5@10 DUP

Lab ID#: 0706375A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	2.5	3.9	8.0
Toluene	1.2	42	4.6	160
Ethyl Benzene	1.2	7.9	5.2	34
m,p-Xylene	1.2	26	5.2	110
o-Xylene	1.2	12	5.2	53

**TENTATIVELY IDENTIFIED COMPOUNDS**

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	25%	16 N J
Butane	106-97-8	9.0%	28 N J

Client Sample ID: VP-4@5

Lab ID#: 0706375A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	8.0	3.9	26
Toluene	1.2	160	4.6	620
Ethyl Benzene	1.2	30	5.2	130
m,p-Xylene	1.2	120	5.2	520
o-Xylene	1.2	37	5.2	160



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## Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-4@5

Lab ID#: 0706375A-08A

Ethanol 4.8 9.6 9.1 18

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	35%	75 N J
Butane	106-97-8	9.0%	65 N J

Client Sample ID: VP-4@10

Lab ID#: 0706375A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	4.7	3.8	15
Toluene	1.2	82	4.5	310
Ethyl Benzene	1.2	28	5.2	120
m,p-Xylene	1.2	65	5.2	280
o-Xylene	1.2	33	5.2	140

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	3.0%	75 N J
Butane	106-97-8	9.0%	130 N J

Client Sample ID: VP-4@10 Lab Duplicate

Lab ID#: 0706375A-09AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	4.5	3.8	14
Toluene	1.2	82	4.5	310
Ethyl Benzene	1.2	28	5.2	120
m,p-Xylene	1.2	65	5.2	280
o-Xylene	1.2	33	5.2	140

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	9.0%	72 N J
Butane	106-97-8	9.0%	140 N J



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Summary of Detected Compounds  
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

Client Sample ID: VP-3@5

Lab ID#: 0706375A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	9.1	3.9	29
Toluene	1.2	160	4.6	600
Ethyl Benzene	1.2	29	5.2	120
m,p-Xylene	1.2	110	5.2	490
o-Xylene	1.2	38	5.2	160

**TENTATIVELY IDENTIFIED COMPOUNDS**

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	43%	53 N J
Butane	106-97-8	7.0%	46 N J

Client Sample ID: VP-3@5 DUP

Lab ID#: 0706375A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	8.9	3.9	28
Toluene	1.2	160	4.6	590
Ethyl Benzene	1.2	29	5.2	120
m,p-Xylene	1.2	110	5.2	490
o-Xylene	1.2	38	5.2	170
Chloroform	0.73	0.88	3.5	4.3

**TENTATIVELY IDENTIFIED COMPOUNDS**

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	4.0%	34 N J
Butane	106-97-8	32%	52 N J

Client Sample ID: VP-3@10

Lab ID#: 0706375A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	18	3.9	56
Toluene	1.2	270	4.6	1000
Ethyl Benzene	1.2	39	5.2	170
m,p-Xylene	1.2	140	5.2	630



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## Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-3@10

Lab ID#: 0706375A-12A

o-Xylene	1.2	45	5.2	190
Chloroform	0.73	0.88	3.5	4.3

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Butane	106-97-8	14%	53 N J

Client Sample ID: VP-2@5

Lab ID#: 0706375A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	2.5	3.9	7.9
Toluene	1.2	110	4.6	420
Ethyl Benzene	1.2	40	5.4	170
m,p-Xylene	1.2	120	5.4	530
o-Xylene	1.2	44	5.4	190
Chloroform	0.74	2.9	3.6	14

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	4.0%	54 N J
Butane	106-97-8	9.0%	83 N J

Client Sample ID: VP-2@10

Lab ID#: 0706375A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	3.7	3.9	12
Toluene	1.2	74	4.6	280
Ethyl Benzene	1.2	15	5.2	66
m,p-Xylene	1.2	59	5.2	260
o-Xylene	1.2	18	5.2	81

### TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	9.0%	13 N J
Butane	106-97-8	16%	35 N J



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**Summary of Detected Compounds**  
**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

**Client Sample ID: Trip Blank**

**Lab ID#: 0706375A-15A**

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-1@5

Lab ID#: 0706375A-01A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8061926	Date of Collection:	6/18/07
Dil. Factor:	31.1	Date of Analysis:	6/20/07 09:01 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	16	34	50	110
Toluene	16	58	58	220
Ethyl Benzene	16	110	68	480
m,p-Xylene	16	240	68	1000
o-Xylene	16	140	68	610
Naphthalene	62	Not Detected	330	Not Detected
Tetrachloroethene	16	Not Detected	100	Not Detected
Trichloroethene	16	Not Detected	84	Not Detected
trans-1,2-Dichloroethene	16	Not Detected	62	Not Detected
cis-1,2-Dichloroethene	16	Not Detected	62	Not Detected
Chloroform	9.3	Not Detected	46	Not Detected
1,1-Dichloroethene	16	Not Detected	62	Not Detected
Ethanol	62	Not Detected	120	Not Detected
tert-Butyl alcohol	62	Not Detected	190	Not Detected
Methyl tert-butyl ether	16	Not Detected	56	Not Detected
Isopropyl ether	62	Not Detected	260	Not Detected
Ethyl-tert-butyl ether	62	Not Detected	260	Not Detected
tert-Amyl methyl ether	62	Not Detected	260	Not Detected
1,2-Dibromoethane (EDB)	16	Not Detected	120	Not Detected
1,2-Dichloroethane	16	Not Detected	63	Not Detected
Carbon Tetrachloride	16	Not Detected	98	Not Detected
1,1,1-Trichloroethane	16	Not Detected	85	Not Detected
1,2-Dichloropropane	16	Not Detected	72	Not Detected

**TENTATIVELY IDENTIFIED COMPOUNDS**

Compound	CAS Number	Match Quality	Amount ppbv
Isobutane	75-28-5	NA	Not Detected
Butane	106-97-8	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	120	70-130
4-Bromofluorobenzene	104	70-130





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-1@10

Lab ID#: 0706375A-02A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8061925	Date of Collection:	6/18/07
Dil. Factor:	11.6	Date of Analysis:	6/20/07 08:26 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.8	820	18	2600
Toluene	5.8	520	22	2000
Ethyl Benzene	5.8	1100	25	4800
m,p-Xylene	5.8	1100	25	4800
o-Xylene	5.8	1200	25	5000
Naphthalene	23	140	120	740
Tetrachloroethene	5.8	Not Detected	39	Not Detected
Trichloroethene	5.8	Not Detected	31	Not Detected
trans-1,2-Dichloroethene	5.8	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	5.8	Not Detected	23	Not Detected
Chloroform	3.5	Not Detected	17	Not Detected
1,1-Dichloroethene	5.8	Not Detected	23	Not Detected
Ethanol	23	Not Detected	44	Not Detected
tert-Butyl alcohol	23	Not Detected	70	Not Detected
Methyl tert-butyl ether	5.8	Not Detected	21	Not Detected
Isopropyl ether	23	Not Detected	97	Not Detected
Ethyl-tert-butyl ether	23	Not Detected	97	Not Detected
tert-Amyl methyl ether	23	Not Detected	97	Not Detected
1,2-Dibromoethane (EDB)	5.8	Not Detected	44	Not Detected
1,2-Dichloroethane	5.8	Not Detected	23	Not Detected
Carbon Tetrachloride	5.8	Not Detected	36	Not Detected
1,1,1-Trichloroethane	5.8	Not Detected	32	Not Detected
1,2-Dichloropropane	5.8	Not Detected	27	Not Detected

**TENTATIVELY IDENTIFIED COMPOUNDS**

Compound	CAS Number	Match Quality	Amount ppbv
Isobutane	75-28-5	NA	Not Detected
Butane	106-97-8	42%	76 N J
Propane	74-98-6	NA	Not Detected

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	120	70-130
1,2-Dichloroethane-d4	197 Q	70-130
4-Bromofluorobenzene	107	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-6@5

Lab ID#: 0706375A-03A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8061922	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/20/07 05:02 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	8.8	3.7	28
Toluene	1.2	84	4.4	320
Ethyl Benzene	1.2	30	5.0	130
m,p-Xylene	1.2	74	5.0	320
o-Xylene	1.2	36	5.0	150
Naphthalene	4.7	20	24	110
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	0.70	Not Detected	3.4	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
tert-Butyl alcohol	4.7	Not Detected	14	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Isopropyl ether	4.7	Not Detected	19	Not Detected
Ethyl-tert-butyl ether	4.7	Not Detected	19	Not Detected
tert-Amyl methyl ether	4.7	Not Detected	19	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected

**TENTATIVELY IDENTIFIED COMPOUNDS**

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	4.0%	96 N J
Butane	106-97-8	12%	36 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-6@10

Lab ID#: 0706375A-04A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8061921	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/20/07 04:20 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	6.3	3.7	20
Toluene	1.2	120	4.4	450
Ethyl Benzene	1.2	22	5.0	95
m,p-Xylene	1.2	76	5.0	330
o-Xylene	1.2	25	5.0	110
Naphthalene	4.7	5.5	24	29
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	0.70	Not Detected	3.4	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
tert-Butyl alcohol	4.7	Not Detected	14	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Isopropyl ether	4.7	Not Detected	19	Not Detected
Ethyl-tert-butyl ether	4.7	Not Detected	19	Not Detected
tert-Amyl methyl ether	4.7	Not Detected	19	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected

**TENTATIVELY IDENTIFIED COMPOUNDS**

Compound	CAS Number	Match Quality	Amount ppbv
Isobutane	75-28-5	NA	Not Detected
Butane	106-97-8	9.0%	65 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-5@5

Lab ID#: 0706375A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8061920	Date of Collection:	6/18/07
Dil. Factor:	2.38	Date of Analysis:	6/20/07 03:37 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	11	3.8	35
Toluene	1.2	220	4.5	820
Ethyl Benzene	1.2	38	5.2	160
m,p-Xylene	1.2	140	5.2	590
o-Xylene	1.2	45	5.2	200
Naphthalene	4.8	Not Detected	25	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	0.71	1.3	3.5	6.4
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
tert-Butyl alcohol	4.8	Not Detected	14	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	2.0%	230 N J
Butane	106-97-8	9.0%	110 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-5@10

Lab ID#: 0706375A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8061919	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/20/07 02:55 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	2.8	3.7	9.0
Toluene	1.2	43	4.4	160
Ethyl Benzene	1.2	9.7	5.0	42
m,p-Xylene	1.2	30	5.0	130
o-Xylene	1.2	15	5.0	65
Naphthalene	4.7	Not Detected	24	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	0.70	Not Detected	3.4	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
tert-Butyl alcohol	4.7	Not Detected	14	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
Isopropyl ether	4.7	Not Detected	19	Not Detected
Ethyl-tert-butyl ether	4.7	Not Detected	19	Not Detected
tert-Amyl methyl ether	4.7	Not Detected	19	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	35%	21 N J
Butane	106-97-8	10%	21 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	106	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-5@10 DUP

Lab ID#: 0706375A-07A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

<b>File Name:</b>	<b>8061918</b>	<b>Date of Collection:</b> 6/18/07
<b>Dil. Factor:</b>	<b>2.42</b>	<b>Date of Analysis:</b> 6/20/07 02:13 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	2.5	3.9	8.0
Toluene	1.2	42	4.6	160
Ethyl Benzene	1.2	7.9	5.2	34
m,p-Xylene	1.2	26	5.2	110
o-Xylene	1.2	12	5.2	53
Naphthalene	4.8	Not Detected	25	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	0.73	Not Detected	3.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
tert-Butyl alcohol	4.8	Not Detected	15	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected

**TENTATIVELY IDENTIFIED COMPOUNDS**

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	25%	16 N J
Butane	106-97-8	9.0%	28 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-4@5

Lab ID#: 0706375A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8061917	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 01:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	8.0	3.9	26
Toluene	1.2	160	4.6	620
Ethyl Benzene	1.2	30	5.2	130
m,p-Xylene	1.2	120	5.2	520
o-Xylene	1.2	37	5.2	160
Naphthalene	4.8	Not Detected	25	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	0.73	Not Detected	3.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Ethanol	4.8	9.6	9.1	18
tert-Butyl alcohol	4.8	Not Detected	15	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	35%	75 N J
Butane	106-97-8	9.0%	65 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-4@10

Lab ID#: 0706375A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7062012	Date of Collection:	6/18/07
Dil. Factor:	2.38	Date of Analysis:	6/20/07 04:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	4.7	3.8	15
Toluene	1.2	82	4.5	310
Ethyl Benzene	1.2	28	5.2	120
m,p-Xylene	1.2	65	5.2	280
o-Xylene	1.2	33	5.2	140
Naphthalene	4.8	Not Detected	25	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	0.71	Not Detected	3.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
tert-Butyl alcohol	4.8	Not Detected	14	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	3.0%	75 N J
Butane	106-97-8	9.0%	130 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	102	70-130





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-4@10 Lab Duplicate

Lab ID#: 0706375A-09AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7062013	Date of Collection:	6/18/07
Dil. Factor:	2.38	Date of Analysis:	6/20/07 05:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	4.5	3.8	14
Toluene	1.2	82	4.5	310
Ethyl Benzene	1.2	28	5.2	120
m,p-Xylene	1.2	65	5.2	280
o-Xylene	1.2	33	5.2	140
Naphthalene	4.8	Not Detected	25	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	0.71	Not Detected	3.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
tert-Butyl alcohol	4.8	Not Detected	14	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	9.0%	72 N J
Butane	106-97-8	9.0%	140 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-3@5

Lab ID#: 0706375A-10A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	7062011	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 04:15 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	9.1	3.9	29
Toluene	1.2	160	4.6	600
Ethyl Benzene	1.2	29	5.2	120
m,p-Xylene	1.2	110	5.2	490
o-Xylene	1.2	38	5.2	160
Naphthalene	4.8	Not Detected	25	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	0.73	Not Detected	3.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
tert-Butyl alcohol	4.8	Not Detected	15	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected

**TENTATIVELY IDENTIFIED COMPOUNDS**

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	43%	53 N J
Butane	106-97-8	7.0%	46 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-3@5 DUP

Lab ID#: 0706375A-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7062009	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 02:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	8.9	3.9	28
Toluene	1.2	160	4.6	590
Ethyl Benzene	1.2	29	5.2	120
m,p-Xylene	1.2	110	5.2	490
o-Xylene	1.2	38	5.2	170
Naphthalene	4.8	Not Detected	25	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	0.73	0.88	3.5	4.3
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
tert-Butyl alcohol	4.8	Not Detected	15	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	4.0%	34 N J
Butane	106-97-8	32%	52 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-3@10

Lab ID#: 0706375A-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7062008	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 01:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	18	3.9	56
Toluene	1.2	270	4.6	1000
Ethyl Benzene	1.2	39	5.2	170
m,p-Xylene	1.2	140	5.2	630
o-Xylene	1.2	45	5.2	190
Naphthalene	4.8	Not Detected	25	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	0.73	0.88	3.5	4.3
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
tert-Butyl alcohol	4.8	Not Detected	15	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Isobutane	75-28-5	NA	Not Detected
Butane	106-97-8	14%	53 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-2@5

Lab ID#: 0706375A-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7062007	Date of Collection:	6/18/07
Dil. Factor:	2.47	Date of Analysis:	6/20/07 01:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	2.5	3.9	7.9
Toluene	1.2	110	4.6	420
Ethyl Benzene	1.2	40	5.4	170
m,p-Xylene	1.2	120	5.4	530
o-Xylene	1.2	44	5.4	190
Naphthalene	4.9	Not Detected	26	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Chloroform	0.74	2.9	3.6	14
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Ethanol	4.9	Not Detected	9.3	Not Detected
tert-Butyl alcohol	4.9	Not Detected	15	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Isopropyl ether	4.9	Not Detected	21	Not Detected
Ethyl-tert-butyl ether	4.9	Not Detected	21	Not Detected
tert-Amyl methyl ether	4.9	Not Detected	21	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	4.0%	54 N J
Butane	106-97-8	9.0%	83 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-2@10

Lab ID#: 0706375A-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7062006	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 12:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	1.2	3.7	3.9	12
Toluene	1.2	74	4.6	280
Ethyl Benzene	1.2	15	5.2	66
m,p-Xylene	1.2	59	5.2	260
o-Xylene	1.2	18	5.2	81
Naphthalene	4.8	Not Detected	25	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	0.73	Not Detected	3.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
tert-Butyl alcohol	4.8	Not Detected	15	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Propane, 2-methyl-	75-28-5	9.0%	13 N J
Butane	106-97-8	16%	35 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0706375A-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7062010	Date of Collection:	6/18/07
Dil. Factor:	1.00	Date of Analysis:	6/20/07 03:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.30	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Isopropyl ether	2.0	Not Detected	8.4	Not Detected
Ethyl-tert-butyl ether	2.0	Not Detected	8.4	Not Detected
tert-Amyl methyl ether	2.0	Not Detected	8.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Isobutane	75-28-5	NA	Not Detected
Butane	106-97-8	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	101	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0706375A-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	8061905a	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/19/07 01:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.30	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Isopropyl ether	2.0	Not Detected	8.4	Not Detected
Ethyl-tert-butyl ether	2.0	Not Detected	8.4	Not Detected
tert-Amyl methyl ether	2.0	Not Detected	8.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Isobutane	75-28-5	NA	Not Detected
Butane	106-97-8	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	104	70-130





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0706375A-16B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7062005	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/20/07 11:26 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.30	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Isopropyl ether	2.0	Not Detected	8.4	Not Detected
Ethyl-tert-butyl ether	2.0	Not Detected	8.4	Not Detected
tert-Amyl methyl ether	2.0	Not Detected	8.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Isobutane	75-28-5	NA	Not Detected
Butane	106-97-8	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0706375A-17A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8061902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/19/07 11:15 AM

Compound	%Recovery
Benzene	82
Toluene	85
Ethyl Benzene	82
m,p-Xylene	86
o-Xylene	81
Naphthalene	82
Tetrachloroethene	87
Trichloroethene	85
trans-1,2-Dichloroethene	82
cis-1,2-Dichloroethene	81
Chloroform	79
1,1-Dichloroethene	84
Ethanol	83
tert-Butyl alcohol	127
Methyl tert-butyl ether	111
Isopropyl ether	96
Ethyl-tert-butyl ether	132
tert-Amyl methyl ether	116
1,2-Dibromoethane (EDB)	86
1,2-Dichloroethane	87
Carbon Tetrachloride	90
1,1,1-Trichloroethane	85
1,2-Dichloropropane	84

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0706375A-17B

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	7062002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/20/07 09:05 AM

Compound	%Recovery
Benzene	102
Toluene	102
Ethyl Benzene	102
m,p-Xylene	103
o-Xylene	100
Naphthalene	70
Tetrachloroethene	121
Trichloroethene	105
trans-1,2-Dichloroethene	89
cis-1,2-Dichloroethene	96
Chloroform	101
1,1-Dichloroethene	89
Ethanol	76
tert-Butyl alcohol	96
Methyl tert-butyl ether	97
Isopropyl ether	93
Ethyl-tert-butyl ether	102
tert-Amyl methyl ether	102
1,2-Dibromoethane (EDB)	113
1,2-Dichloroethane	106
Carbon Tetrachloride	109
1,1,1-Trichloroethane	103
1,2-Dichloropropane	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0706375A-18A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	8061903	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/19/07 11:43 AM

Compound	%Recovery
Benzene	75
Toluene	82
Ethyl Benzene	76
m,p-Xylene	80
o-Xylene	74
Naphthalene	70
Tetrachloroethene	82
Trichloroethene	79
trans-1,2-Dichloroethene	75
cis-1,2-Dichloroethene	76
Chloroform	73
1,1-Dichloroethene	86
Ethanol	89
tert-Butyl alcohol	Not Spiked
Methyl tert-butyl ether	102
Isopropyl ether	Not Spiked
Ethyl-tert-butyl ether	Not Spiked
tert-Amyl methyl ether	Not Spiked
1,2-Dibromoethane (EDB)	75
1,2-Dichloroethane	82
Carbon Tetrachloride	84
1,1,1-Trichloroethane	78
1,2-Dichloropropane	77

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	108	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0706375A-18B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7062003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/20/07 09:46 AM

Compound	%Recovery
Benzene	104
Toluene	108
Ethyl Benzene	102
m,p-Xylene	103
o-Xylene	101
Naphthalene	67
Tetrachloroethene	123
Trichloroethene	105
trans-1,2-Dichloroethene	90
cis-1,2-Dichloroethene	97
Chloroform	102
1,1-Dichloroethene	97
Ethanol	80
tert-Butyl alcohol	Not Spiked
Methyl tert-butyl ether	89
Isopropyl ether	Not Spiked
Ethyl-tert-butyl ether	Not Spiked
tert-Amyl methyl ether	Not Spiked
1,2-Dibromoethane (EDB)	111
1,2-Dichloroethane	108
Carbon Tetrachloride	107
1,1,1-Trichloroethane	101
1,2-Dichloropropane	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	106	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0706375C**

Work Order Summary

<b>CLIENT:</b>	Ms. Charlotte Evans Conestoga-Rovers Associates 5900 Hollis Street Suite A Emeryville, CA 94608	<b>BILL TO:</b>	Ms. Charlotte Evans Conestoga-Rovers Associates 5900 Hollis Street Suite A Emeryville, CA 94608
<b>PHONE:</b>	510-420-3351	<b>P.O. #</b>	311956
<b>FAX:</b>	510-420-9170	<b>PROJECT #</b>	311956 9-0020
<b>DATE RECEIVED:</b>	06/19/2007	<b>CONTACT:</b>	Kyle Vagadori
<b>DATE COMPLETED:</b>	06/21/2007		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
01A	VP-1@5	Modified ASTM D-1946	4.0 "Hg
01AA	VP-1@5 Lab Duplicate	Modified ASTM D-1946	4.0 "Hg
02A	VP-1@10	Modified ASTM D-1946	4.0 "Hg
03A	VP-6@5	Modified ASTM D-1946	4.0 "Hg
04A	VP-6@10	Modified ASTM D-1946	4.0 "Hg
05A	VP-5@5	Modified ASTM D-1946	4.5 "Hg
06A	VP-5@10	Modified ASTM D-1946	4.0 "Hg
07A	VP-5@10 DUP	Modified ASTM D-1946	5.0 "Hg
08A	VP-4@5	Modified ASTM D-1946	5.0 "Hg
09A	VP-4@10	Modified ASTM D-1946	4.5 "Hg
10A	VP-3@5	Modified ASTM D-1946	5.0 "Hg
11A	VP-3@5 DUP	Modified ASTM D-1946	5.0 "Hg
12A	VP-3@10	Modified ASTM D-1946	5.0 "Hg
12AA	VP-3@10 Lab Duplicate	Modified ASTM D-1946	5.0 "Hg
13A	VP-2@5	Modified ASTM D-1946	5.5 "Hg
14A	VP-2@10	Modified ASTM D-1946	5.0 "Hg
15A	Trip Blank	Modified ASTM D-1946	27.5 "Hg

Continued on next page

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020




AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0706375C**

Work Order Summary

<b>CLIENT:</b>	Ms. Charlotte Evans Conestoga-Rovers Associates 5900 Hollis Street Suite A Emeryville, CA 94608	<b>BILL TO:</b>	Ms. Charlotte Evans Conestoga-Rovers Associates 5900 Hollis Street Suite A Emeryville, CA 94608
<b>PHONE:</b>	510-420-3351	<b>P.O. #</b>	311956
<b>FAX:</b>	510-420-9170	<b>PROJECT #</b>	311956 9-0020
<b>DATE RECEIVED:</b>	06/19/2007	<b>CONTACT:</b>	Kyle Vagadori
<b>DATE COMPLETED:</b>	06/21/2007		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
16A	Lab Blank	Modified ASTM D-1946	NA
16B	Lab Blank	Modified ASTM D-1946	NA
17A	LCS	Modified ASTM D-1946	NA
17B	LCS	Modified ASTM D-1946	NA

CERTIFIED BY: 

DATE: 06/21/07

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE  
Modified ASTM D-1946  
Conestoga-Rovers Associates  
Workorder# 0706375C**

Fifteen 1 Liter Summa Canister (100% Certified) samples were received on June 19, 2007. The laboratory performed analysis via Modified ASTM Method D-1946 for fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 X$ 's the RL.

**Receiving Notes**

The Chain of Custody (COC) information for samples VP-1@5 and VP-5@10 DUP did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy



and the information on the canister was used to process and report the samples.

### **Analytical Notes**

There were no analytical discrepancies.

### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit.
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



AN ENVIRONMENTAL ANALYTICAL LABORATORY

## Summary of Detected Compounds MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: VP-1@5

Lab ID#: 0706375C-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	4.5
Carbon Dioxide	0.023	10

Client Sample ID: VP-1@5 Lab Duplicate

Lab ID#: 0706375C-01AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	4.6
Carbon Dioxide	0.023	10

Client Sample ID: VP-1@10

Lab ID#: 0706375C-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	5.0
Carbon Dioxide	0.023	6.1

Client Sample ID: VP-6@5

Lab ID#: 0706375C-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	14
Carbon Dioxide	0.023	1.8

Client Sample ID: VP-6@10

Lab ID#: 0706375C-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	12
Carbon Dioxide	0.023	1.4

Client Sample ID: VP-5@5

Lab ID#: 0706375C-05A



AN ENVIRONMENTAL ANALYTICAL LABORATORY

### Summary of Detected Compounds MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: VP-5@5

Lab ID#: 0706375C-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	17
Carbon Dioxide	0.024	0.15

Client Sample ID: VP-5@10

Lab ID#: 0706375C-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	18
Carbon Dioxide	0.023	1.1

Client Sample ID: VP-5@10 DUP

Lab ID#: 0706375C-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	18
Carbon Dioxide	0.024	1.0

Client Sample ID: VP-4@5

Lab ID#: 0706375C-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	14
Carbon Dioxide	0.024	0.88

Client Sample ID: VP-4@10

Lab ID#: 0706375C-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	13
Carbon Dioxide	0.024	2.9

Client Sample ID: VP-3@5

Lab ID#: 0706375C-10A



AN ENVIRONMENTAL ANALYTICAL LABORATORY

## Summary of Detected Compounds MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: VP-3@5

Lab ID#: 0706375C-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	16
Carbon Dioxide	0.024	0.80

Client Sample ID: VP-3@5 DUP

Lab ID#: 0706375C-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	16
Carbon Dioxide	0.024	0.79

Client Sample ID: VP-3@10

Lab ID#: 0706375C-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	15
Carbon Dioxide	0.024	0.93

Client Sample ID: VP-3@10 Lab Duplicate

Lab ID#: 0706375C-12AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	15
Carbon Dioxide	0.024	0.93

Client Sample ID: VP-2@5

Lab ID#: 0706375C-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	16
Carbon Dioxide	0.025	1.2

Client Sample ID: VP-2@10

Lab ID#: 0706375C-14A



AN ENVIRONMENTAL ANALYTICAL LABORATORY

## Summary of Detected Compounds MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: VP-2@10

Lab ID#: 0706375C-14A

<b>Compound</b>	<b>Rpt. Limit (%)</b>	<b>Amount (%)</b>
Oxygen	0.24	16
Carbon Dioxide	0.024	2.3

Client Sample ID: Trip Blank

Lab ID#: 0706375C-15A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-1@5

Lab ID#: 0706375C-01A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061913	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/19/07 05:28 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	4.5
Carbon Dioxide	0.023	10

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-1@5 Lab Duplicate

Lab ID#: 0706375C-01AA

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061921	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/19/07 08:57 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	4.6
Carbon Dioxide	0.023	10

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-1@10

Lab ID#: 0706375C-02A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061914	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/19/07 06:16 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	5.0
Carbon Dioxide	0.023	6.1

Container Type: 1 Liter Summa Canister (100% Certified)





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-6@5

Lab ID#: 0706375C-03A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061915	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/19/07 06:36 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	14
Carbon Dioxide	0.023	1.8

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-6@10

Lab ID#: 0706375C-04A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061916	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/19/07 06:59 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	12
Carbon Dioxide	0.023	1.4

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-5@5

Lab ID#: 0706375C-05A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061917	Date of Collection:	6/18/07
Dil. Factor:	2.38	Date of Analysis:	6/19/07 07:24 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	17
Carbon Dioxide	0.024	0.15

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-5@10

Lab ID#: 0706375C-06A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061918	Date of Collection:	6/18/07
Dil. Factor:	2.33	Date of Analysis:	6/19/07 07:45 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	18
Carbon Dioxide	0.023	1.1

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-5@10 DUP

Lab ID#: 0706375C-07A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061919	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/19/07 08:07 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	18
Carbon Dioxide	0.024	1.0

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-4@5

Lab ID#: 0706375C-08A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061920	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/19/07 08:30 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	14
Carbon Dioxide	0.024	0.88

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-4@10

Lab ID#: 0706375C-09A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3062004	Date of Collection:	6/18/07
Dil. Factor:	2.38	Date of Analysis:	6/20/07 01:39 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	13
Carbon Dioxide	0.024	2.9

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-3@5

Lab ID#: 0706375C-10A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3062005	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 02:30 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	16
Carbon Dioxide	0.024	0.80

Container Type: 1 Liter Summa Canister (100% Certified)





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-3@5 DUP

Lab ID#: 0706375C-11A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3062006	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 03:04 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	16
Carbon Dioxide	0.024	0.79

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-3@10

Lab ID#: 0706375C-12A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3062007	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 03:55 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	15
Carbon Dioxide	0.024	0.93

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-3@10 Lab Duplicate

Lab ID#: 0706375C-12AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	3062008	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 04:45 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	15
Carbon Dioxide	0.024	0.93

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-2@5

Lab ID#: 0706375C-13A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3062009	Date of Collection:	6/18/07
Dil. Factor:	2.47	Date of Analysis:	6/20/07 05:06 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	16
Carbon Dioxide	0.025	1.2

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VP-2@10

Lab ID#: 0706375C-14A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3062010	Date of Collection:	6/18/07
Dil. Factor:	2.42	Date of Analysis:	6/20/07 05:39 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	16
Carbon Dioxide	0.024	2.3

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0706375C-15A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3062011	Date of Collection:	6/18/07
Dil. Factor:	1.00	Date of Analysis:	6/20/07 06:07 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0706375C-16A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061902	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/19/07 03:48 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0706375C-16B

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3062003	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/20/07 01:17 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0706375C-17A

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3061926	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/19/07 10:55 PM

Compound	%Recovery
Oxygen	97
Carbon Dioxide	99

Container Type: NA - Not Applicable



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0706375C-17B

**MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

File Name:	3062023	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/20/07 02:22 PM

Compound	%Recovery
Oxygen	99
Carbon Dioxide	104

Container Type: NA - Not Applicable



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

## SAMPLE GROUP

The sample group for this submittal is 1040154. Samples arrived at the laboratory on Tuesday, May 29, 2007. The PO# for this group is 0015014975 and the release number is SINHA.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
SB1-S-10-070427	Grab	Soil	5066079
SB1-S-15-070427	Grab	Soil	5066080

ELECTRONIC    CRA  
COPY TO

Attn: Charlotte Evans

Questions? Contact your Client Services Representative  
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Jaime L. Ferguson  
Specialist



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. SW 5066079

SB1-S-10-070427 Grab Soil  
Facility# 90020 CE TE  
1633 Harrison-Oakland T0600100304 SB1  
Collected: 04/27/2007 09:57 by IH

Account Number: 10880

Submitted: 05/29/2007 12:30  
Reported: 06/14/2007 at 13:48  
Discard: 07/15/2007

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
---------	---------------	------------	--------------------	------------------------------------	-------	-----------------

The analyses for moisture content, bulk density, porosity (total, air and water filled), organic carbon, and effective permeability were subcontracted to another laboratory.

This sample was originally submitted to the laboratory on 05/02/07 at 09:30. We received authorization for further testing on 05/29/07.





May 31, 2007

Ms. Holly Julian  
Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, CA 17601-5994

Re: 5066079-5066080  
File: 37432

Dear Ms. Julian:

Enclosed are final data for samples submitted from your Project # 5066079-5066080. All analyses were performed by applicable ASTM, EPA or API methodology. An electronic version of the report has previously been sent to your attention. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal or return of the samples.

We appreciate the opportunity to be of service and trust these data will prove beneficial in the development of this project. Please call me at (562) 907-3607 with any questions or if you require additional information.

Sincerely,  
PTS Laboratories, Inc.

  
Larry Kunkel  
District Manager

LAK:vk

Encl.





PTS File No: 37432  
Client: Lancaster Laboratories

**ORGANIC CARBON DATA - TOC (foc)**

PROJECT NAME: N/A  
PROJECT NO: 5066079-5066080

SAMPLE ID.	DEPTH, ft.	SAMPLE MATRIX	METHOD: WALKLEY-BLACK	
			FRACTION ORGANIC CARBON, g/g	TOTAL ORGANIC CARBON, mg/kg
9-0020 SB1-S-10	N/A	SOIL	6.30E-04	630

**PARTICLE SIZE SUMMARY**  
 (METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: N/A  
 PROJECT NO: 5066079-5066080

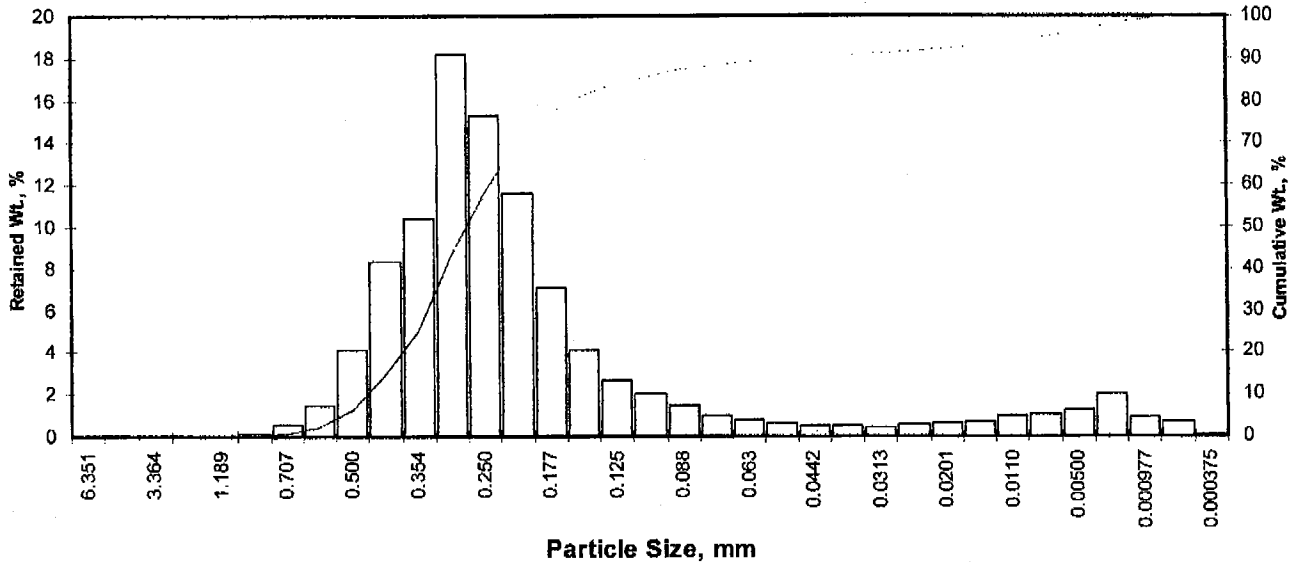
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent					Silt & Clay	
				Gravel	Sand Size			Silt		Clay
					Coarse	Medium	Fine			
9-0020 SB1-S-15	N/A	Fine sand	0.275	0.00	0.00	14.59	73.80	7.95	3.66	11.61

(1) Based on Mean from Trask

Client: Lancaster Laboratories  
 Project: N/A  
 Project No: 5066079-5066080

PTS File No: 37432  
 Sample ID: 9-0020 SB1-S-15  
 Depth, ft: N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.16	0.16	0.16
0.0278	0.707	0.50	25	0.54	0.54	0.70
0.0234	0.595	0.75	30	1.47	1.47	2.17
0.0197	0.500	1.00	35	4.12	4.12	6.29
0.0166	0.420	1.25	40	8.30	8.30	14.59
0.0139	0.364	1.50	45	10.40	10.40	24.99
0.0117	0.297	1.75	50	18.20	18.20	43.20
0.0098	0.250	2.00	60	15.30	15.30	58.50
0.0083	0.210	2.25	70	11.60	11.60	70.10
0.0070	0.177	2.50	80	7.10	7.10	77.20
0.0059	0.149	2.75	100	4.08	4.08	81.28
0.0049	0.125	3.00	120	2.67	2.67	83.95
0.0041	0.105	3.25	140	1.98	1.98	85.93
0.0035	0.088	3.50	170	1.48	1.48	87.41
0.0029	0.074	3.75	200	0.98	0.98	88.39
0.0025	0.063	4.00	230	0.74	0.74	89.13
0.0021	0.053	4.25	270	0.62	0.62	89.75
0.00174	0.0442	4.50	325	0.50	0.50	90.25
0.00146	0.0372	4.75	400	0.46	0.46	90.71
0.00123	0.0313	5.00	450	0.45	0.45	91.16
0.000986	0.0250	5.32	500	0.57	0.57	91.73
0.000790	0.0201	5.64	635	0.62	0.62	92.35
0.000615	0.0156	6.00		0.70	0.70	93.05
0.000435	0.0110	6.50		0.97	0.97	94.02
0.000308	0.00781	7.00		1.04	1.04	95.06
0.000197	0.00500	7.65		1.28	1.28	96.34
0.000077	0.00195	9.00		1.98	1.98	98.32
0.000038	0.000977	10.00		0.88	0.88	99.20
0.000019	0.000488	11.00		0.71	0.71	99.91
0.000015	0.000375	11.38		0.09	0.09	100.00
<b>TOTALS</b>				<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.92	0.0208	0.528
10	1.11	0.0182	0.463
16	1.28	0.0162	0.411
25	1.50	0.0139	0.354
40	1.71	0.0121	0.306
50	1.86	0.0108	0.275
60	2.03	0.0096	0.244
75	2.42	0.0073	0.187
84	3.01	0.0049	0.124
90	4.37	0.0019	0.048
95	6.97	0.0003	0.008

Measure	Trask	Inman	Folk-Ward
Median, phi	1.86	1.86	1.86
Median, in.	0.0108	0.0108	0.0108
Median, mm	0.275	0.275	0.275
Mean, phi	1.89	2.14	2.05
Mean, in.	0.0106	0.0089	0.0095
Mean, mm	0.270	0.226	0.241
Sorting	1.377	0.861	1.347
Skewness	0.933	0.330	0.509
Kurtosis	0.201	2.512	2.687
<b>Grain Size Description</b> (ASTM-USCS Scale)	<b>Fine sand</b> (based on Mean from Trask)		

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	14.59
Fine Sand	200	73.80
Silt	>0.005 mm	7.95
Clay	<0.005 mm	3.66
<b>Total</b>		<b>100</b>

37432



Subcontractor: PTS LLI P.O. #: \_\_\_\_\_ Date: 5/29/07  
 Contact: \_\_\_\_\_ Results due: Standard TAT 4 days  
 Submit report to: HJulian@lancasterlabs.com Ext: Holly 1249 Dept. #: \_\_\_\_\_ Courier: Fed Ex

Sample Identification:	Number/size of containers (total)	Analyses							LLI# Remarks	Collected:
		bulk density	Porosity (per cent of voids)	Moisture	Organic Carbon	Effective Permeability	Grain Size			
9-0020 SBI-S-10	1	X	X	X	X	X			5066079	4/27/07 9:57
9-0020 SBI-S-15	1	X	X	X	X	No	X	Yes	5066080	4/27/07 10:05

Fee: \_\_\_\_\_

**Chain of Custody**

Sample relinquished by:	Date	Time	Sample received by:	Date	Time	Reason for transfer:
<i>[Signature]</i>	5/29	16:55	SHIPPING	5/29	16:55	
			<i>[Signature]</i>	5/30	1030	

# Analysis Request/Subcontracting Form



Subcontractor: PTS LLI P.O. #: \_\_\_\_\_ Date: 5/29/92  
 Contact: \_\_\_\_\_ Results due: 5/31/92 4 days  
 Submit report to: H. Johnson Ext: 1000 Dept. #: \_\_\_\_\_ Courier: UPS

Sample Identification:	Number/size of containers (total)	Analyses							Remarks:
		<i>Lead</i>	<i>Cadmium</i>	<i>Copper</i>	<i>Iron</i>	<i>Manganese</i>	<i>Nickel</i>	<i>Zinc</i>	
<u>10000000000000000000</u>	1	X	X	X	X	X			<u>5/29/92 10:00 AM</u>
<u>10000000000000000000</u>	1	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>		<u>5/29/92 10:00 AM</u>

Fee: \_\_\_\_\_

### Chain of Custody

Sample relinquished by:	Date	Time	Sample received by:	Date	Time	Reason for transfer:
<u>[Signature]</u>	<u>5/29</u>	<u>10:00</u>	<u>[Signature]</u>	<u>5/29</u>	<u>10:00</u>	

PTS File No: 37478  
 Client: Lancaster Laboratories

PTS Laboratories

**PHYSICAL PROPERTIES DATA**

PROJECT NAME: N/A  
 PROJECT NO: 5081033

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	MOISTURE CONTENT, % weight	BULK DENSITY, g/cc	POROSITY, %Vb (2)			EFFECTIVE PERMEABILITY TO AIR, millidarcy
					TOTAL	WATER FILLED	AIR FILLED	
Physical Parameters	N/A	V	17.2	1.82	32.6	31.2	1.4	0.250

-Depth.  
 Physical Parameters

## PHYSICAL PROPERTIES DATA

PROJECT NAME: N/A  
 PROJECT NO: 5081033

METHODS:      API RP 40 /  
 ASTM D2216      API RP 40      API RP 40      API RP 40

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	MOISTURE CONTENT, % weight	BULK DENSITY, g/cc	POROSITY, %V <sub>b</sub> (2)			25 PSI CONFINING STRESS
					TOTAL	WATER FILLED	AIR FILLED	EFFECTIVE PERMEABILITY TO AIR, millidarcy

(1) Sample Orientation: H = horizontal; V = vertical (2) Total Porosity = no pore fluids in place; all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids; V<sub>b</sub> = Bulk Volume, cc

PTS File No: 37478  
 Client: Lancaster Laboratories

**ORGANIC CARBON DATA - TOC (foc)**

PROJECT NAME: N/A  
 PROJECT NO: 5081033

SAMPLE ID.	DEPTH, ft.	SAMPLE MATRIX	METHOD: WALKLEY-BLACK	
			FRACTION ORGANIC CARBON, g/g	TOTAL ORGANIC CARBON, mg/kg
Physical Parameters	N/A	V	3.25E-03	3250



**PARTICLE SIZE SUMMARY**  
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: N/A  
PROJECT NO: 5081033

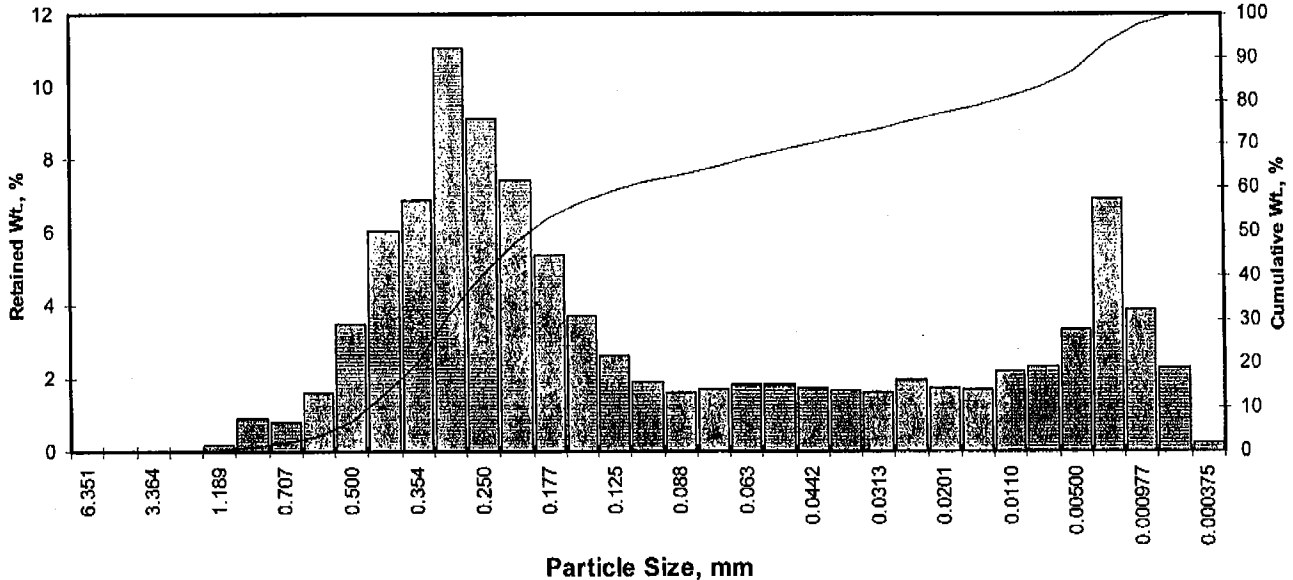
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
Physical Parameters	N/A	Fine sand	0.195	0.00	0.00	13.16	51.50	21.99	13.35	35.34

(1) Based on Mean from Trask

Client: Lancaster Laboratories  
 Project: N/A  
 Project No: 5081033

PTS File No: 37478  
 Sample ID: Physical Parameters  
 Depth, ft: N/A

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.19	0.19	0.19
0.0331	0.841	0.25	20	0.93	0.93	1.12
0.0278	0.707	0.50	25	0.85	0.85	1.97
0.0234	0.595	0.75	30	1.63	1.63	3.60
0.0197	0.500	1.00	35	3.50	3.50	7.10
0.0166	0.420	1.25	40	6.06	6.06	13.16
0.0139	0.354	1.50	45	6.89	6.89	20.04
0.0117	0.297	1.75	50	11.10	11.10	31.14
0.0098	0.250	2.00	60	9.14	9.14	40.28
0.0083	0.210	2.25	70	7.42	7.42	47.70
0.0070	0.177	2.50	80	5.36	5.36	53.05
0.0059	0.149	2.75	100	3.71	3.71	56.76
0.0049	0.125	3.00	120	2.63	2.63	59.39
0.0041	0.105	3.25	140	1.93	1.93	61.32
0.0035	0.088	3.50	170	1.64	1.64	62.96
0.0029	0.074	3.75	200	1.70	1.70	64.66
0.0025	0.063	4.00	230	1.84	1.84	66.50
0.0021	0.053	4.25	270	1.84	1.84	68.34
0.00174	0.0442	4.50	325	1.74	1.74	70.08
0.00148	0.0372	4.75	400	1.65	1.65	71.73
0.00123	0.0313	5.00	450	1.61	1.61	73.34
0.000986	0.0250	5.32	500	1.97	1.97	75.31
0.000790	0.0201	5.64	635	1.77	1.77	77.08
0.000815	0.0156	6.00		1.71	1.71	78.79
0.000435	0.0110	6.50		2.20	2.20	80.99
0.000308	0.00781	7.00		2.35	2.35	83.33
0.000197	0.00500	7.65		3.32	3.32	86.65
0.000077	0.00195	9.00		6.92	6.92	93.57
0.000038	0.000977	10.00		3.87	3.87	97.44
0.000019	0.000488	11.00		2.31	2.31	99.75
0.000015	0.000375	11.38		0.25	0.25	100.00
<b>TOTALS</b>				<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.85	0.0218	0.555
10	1.12	0.0181	0.460
16	1.35	0.0154	0.391
25	1.61	0.0129	0.327
40	1.99	0.0099	0.251
50	2.36	0.0077	0.195
60	3.08	0.0047	0.118
75	5.27	0.0010	0.026
84	7.13	0.0003	0.007
90	8.30	0.0001	0.003
95	9.37	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	2.36	2.36	2.36
Median, in.	0.0077	0.0077	0.0077
Median, mm	0.195	0.195	0.195
Mean, phi	2.50	4.24	3.61
Mean, in.	0.0070	0.0021	0.0032
Mean, mm	0.177	0.053	0.082
Sorting	3.553	2.888	2.735
Skewness	0.472	0.652	0.649
Kurtosis	0.330	0.475	0.954

**Grain Size Description** (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	13.16
Fine Sand	200	51.50
Silt	>0.005 mm	21.99
Clay	<0.005 mm	13.35
<b>Total</b>		<b>100</b>

37478



Subcontractor: PTS LLI P.O. #: \_\_\_\_\_ Date: 6/18/07  
 Contact: \_\_\_\_\_ Results due: 2 days  
 Submit report to: Holly Julian Ext: 1299 Dept. #: \_\_\_\_\_ Courier: Fed Ex

Sample Identification:	Number/size of containers (total)	Analyses										Remarks:
		moisture content	bulk density	total porosity	air-filled porosity	water-filled porosity	organic carbon effective permeability					
Physical Parameters	1	X	X	X	X	X	X	X	X	X	X	collected 6/18/07 13:30 LLI# 5081033

Fee: \_\_\_\_\_

**Chain of Custody**

Sample relinquished by:	Date	Time	Sample received by:	Date	Time	Reason for transfer:
<u>Angela Miller</u>	<u>6/18/07</u>	<u>1515</u>	<u>Shipping</u> <u>R. Johnson</u>	<u>6/18/07</u>	<u>1515</u>	
				<u>6/17/07</u>	<u>1110</u>	



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

## SAMPLE GROUP

The sample group for this submittal is 1042754. Samples arrived at the laboratory on Friday, June 15, 2007. The PO# for this group is 0015014975 and the release number is SINHA.

### Client Description

Physical-Par-S-9.5-070613 Grab Soil

### Lancaster Labs Number

5081033

ELECTRONIC CRA  
COPY TO

Attn: Charlotte Evans

Questions? Contact your Client Services Representative  
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Jaime L. Ferguson  
Specialist



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. SW 5081033

Physical-Par-S-9.5-070613 Grab Soil  
Facility# 90020 CETE  
1633 Harrison-Oakland T0600100304 Physical  
Collected: 06/13/2007 13:30 by JG

Account Number: 10880

Submitted: 06/15/2007 09:50  
Reported: 06/21/2007 at 15:49  
Discard: 07/22/2007

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
---------	---------------	------------	--------------------	-----------------------------------	-------	-----------------

The analysis for moisture content, bulk density, porosity (total, air and water filled), organic carbon, and effective permeability was subcontracted to another laboratory.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 06/21/07 at 03:49 PM

Group Number: 1042754

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
----------------------	---------------------	------------------	---------------------	-----------------	------------------	------------------------	------------	----------------

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



PTS File No: 37478  
 Client: Lancaster Laboratories

PTS Laboratories

### PHYSICAL PROPERTIES DATA

PROJECT NAME: N/A  
 PROJECT NO: 5081033

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	MOISTURE CONTENT, % weight	BULK DENSITY, g/cc	POROSITY, %Vb (2)			EFFECTIVE PERMEABILITY TO AIR, millidarcy
					TOTAL	WATER FILLED	AIR FILLED	
Physical Parameters	N/A	V	17.2	1.82	32.6	31.2	1.4	0.250

METHODS: API RP 40 / ASTM D2216    API RP 40    API RP 40    API RP 40

25 PSI CONFINING STRESS



# PHYSICAL PROPERTIES DATA

PROJECT NAME: N/A  
 PROJECT NO: 5081033

METHODS:      API RP 40 /  
 ASTM D2216      API RP 40      API RP 40      API RP 40

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	MOISTURE CONTENT, % weight	BULK DENSITY, g/cc	POROSITY, %Vb (2)			25 PSI CONFINING STRESS
					TOTAL	WATER FILLED	AIR FILLED	EFFECTIVE PERMEABILITY TO AIR, millidarcy

(1) Sample Orientation: H = horizontal; V = vertical (2) Total Porosity = no pore fluids in place; all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids; Vb = Bulk Volume, cc

PTS File No: 37478  
 Client: Lancaster Laboratories

**ORGANIC CARBON DATA - TOC (foc)**

PROJECT NAME: N/A  
 PROJECT NO: 5081033

METHOD: WALKLEY-BLACK WALKLEY-BLACK

SAMPLE ID.	DEPTH, ft.	SAMPLE MATRIX	FRACTION ORGANIC CARBON, g/g	TOTAL ORGANIC CARBON, mg/kg
------------	------------	---------------	------------------------------	-----------------------------

Physical Parameters

N/A

V

3.25E-03

3250

**PARTICLE SIZE SUMMARY**  
(METHODOLOGY: ASTM D422/D4464M)

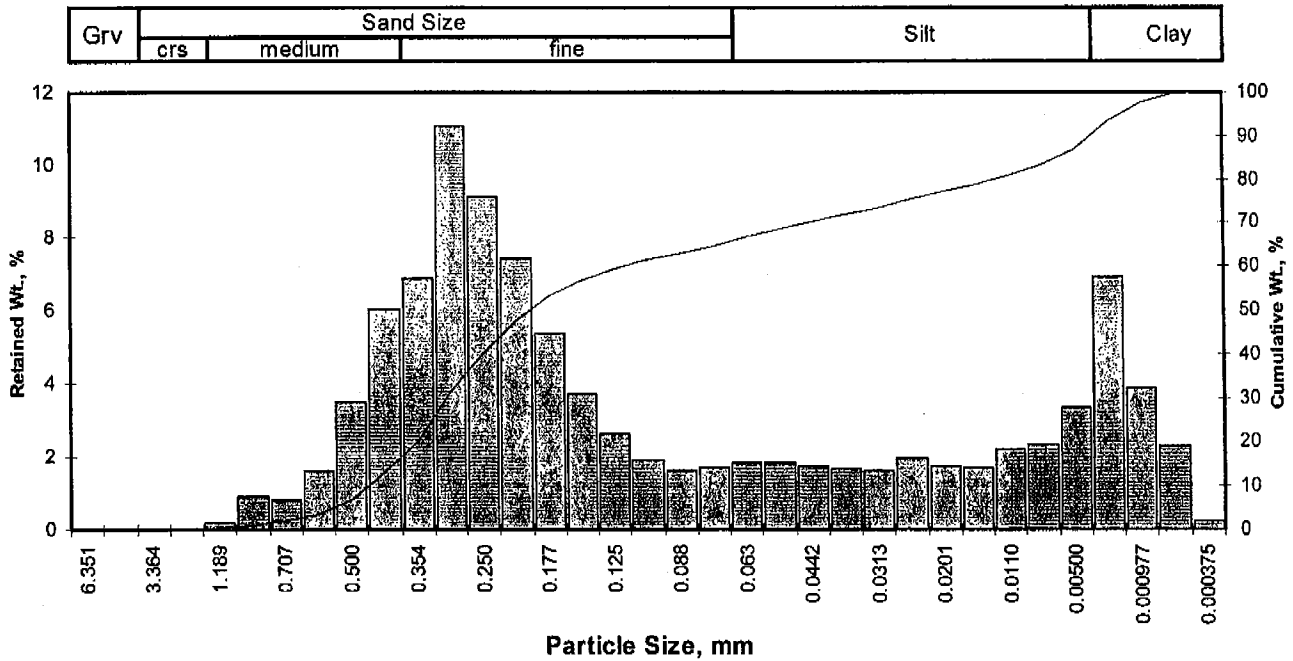
PROJECT NAME: N/A  
PROJECT NO: 5081033

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
Physical Parameters	N/A	Fine sand	0.195	0.00	0.00	13.16	51.50	21.99	13.35	35.34

(1) Based on Mean from Trask

Client: Lancaster Laboratories  
 Project: N/A  
 Project No: 5081033

PTS File No: 37478  
 Sample ID: Physical Parameters  
 Depth, ft: N/A



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.19	0.19	0.19
0.0331	0.841	0.25	20	0.93	0.93	1.12
0.0278	0.707	0.50	25	0.85	0.85	1.97
0.0234	0.595	0.75	30	1.63	1.63	3.60
0.0197	0.500	1.00	35	3.50	3.50	7.10
0.0166	0.420	1.25	40	6.06	6.06	13.16
0.0139	0.354	1.50	45	6.89	6.89	20.04
0.0117	0.297	1.75	50	11.10	11.10	31.14
0.0098	0.250	2.00	60	9.14	9.14	40.28
0.0083	0.210	2.25	70	7.42	7.42	47.70
0.0070	0.177	2.50	80	5.36	5.36	53.05
0.0059	0.149	2.75	100	3.71	3.71	56.76
0.0049	0.125	3.00	120	2.63	2.63	59.39
0.0041	0.105	3.25	140	1.93	1.93	61.32
0.0035	0.088	3.50	170	1.64	1.64	62.96
0.0029	0.074	3.75	200	1.70	1.70	64.66
0.0025	0.063	4.00	230	1.84	1.84	66.50
0.0021	0.053	4.25	270	1.84	1.84	68.34
0.00174	0.0442	4.50	325	1.74	1.74	70.08
0.00146	0.0372	4.75	400	1.65	1.65	71.73
0.00123	0.0313	5.00	450	1.61	1.61	73.34
0.000986	0.0250	5.32	500	1.97	1.97	75.31
0.000790	0.0201	5.64	635	1.77	1.77	77.08
0.000615	0.0156	6.00		1.71	1.71	78.79
0.000435	0.0110	6.50		2.20	2.20	80.99
0.000308	0.00781	7.00		2.35	2.35	83.33
0.000197	0.00500	7.65		3.32	3.32	86.65
0.000077	0.00195	9.00		6.92	6.92	93.57
0.000038	0.000977	10.00		3.87	3.87	97.44
0.000019	0.000488	11.00		2.31	2.31	99.75
0.000015	0.000375	11.38		0.25	0.25	100.00
<b>TOTALS</b>				<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.85	0.0218	0.555
10	1.12	0.0181	0.460
16	1.35	0.0154	0.391
25	1.61	0.0129	0.327
40	1.99	0.0099	0.251
50	2.36	0.0077	0.195
60	3.08	0.0047	0.118
75	5.27	0.0010	0.026
84	7.13	0.0003	0.007
90	8.30	0.0001	0.003
95	9.37	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	2.36	2.36	2.36
Median, in.	0.0077	0.0077	0.0077
Median, mm	0.195	0.195	0.195
Mean, phi	2.50	4.24	3.61
Mean, in.	0.0070	0.0021	0.0032
Mean, mm	0.177	0.053	0.082
Sorting	3.553	2.888	2.735
Skewness	0.472	0.652	0.649
Kurtosis	0.330	0.475	0.954

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	13.16
Fine Sand	200	51.50
Silt	>0.005 mm	21.99
Clay	<0.005 mm	13.35
<b>Total</b>		<b>100</b>



## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers	Inorganic Qualifiers
<b>A</b> TIC is a possible aldol-condensation product	<b>B</b> Value is <CRDL, but ≥IDL
<b>B</b> Analyte was also detected in the blank	<b>E</b> Estimated due to interference
<b>C</b> Pesticide result confirmed by GC/MS	<b>M</b> Duplicate injection precision not met
<b>D</b> Compound quantitated on a diluted sample	<b>N</b> Spike amount not within control limits
<b>E</b> Concentration exceeds the calibration range of the instrument	<b>S</b> Method of standard additions (MSA) used for calculation
<b>J</b> Estimated value	<b>U</b> Compound was not detected
<b>N</b> Presumptive evidence of a compound (TICs only)	<b>W</b> Post digestion spike out of control limits
<b>P</b> Concentration difference between primary and confirmation columns >25%	<b>*</b> Duplicate analysis not within control limits
<b>U</b> Compound was not detected	<b>+</b> Correlation coefficient for MSA <0.995
<b>X,Y,Z</b> Defined in case narrative	

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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