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UNDERGROUND STORAGE TANK REMOVAL REPORT

THRIFTY OIL COMPANY SERVICE STATION NO. 63 6125 TELEGRAPH ROAD OAKLAND, CALIFORNIA PEG PROJECT NO. 331-008.1B

Prepared for:

Ms. Kateri Luka ARCO Products Company 4 Centerpointe Drive La Palma, California 90623

Prepared by:

Pacific Environmental Group, Inc. 650 Sierra Madre Villa, Suite 204 Pasadena, California 91107

August 31, 1998

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UNDERGROUND STORAGE TANK REMOVAL REPORT

THRIFTY OIL COMPANY SERVICE STATION NO. 63
6125 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
PEG PROJECT NO. 331-008.1B

1.0 INTRODUCTION

Pacific Environmental Group, Inc. (PEG) was contracted by ARCO Products Company (ARCO) to perform soil sampling during underground storage tank (UST) removal activities at Thrifty Oil Company (Thrifty) Service Station No. 63, located at 6125 Telegraph Avenue, Oakland, California (the Site). The purpose of the soil sampling was to fulfill local agency requirements and to provide additional information to baseline environmental related subsurface conditions from operations at Thrifty Service Station No. 63. The services provided by PEG included the following:

• Collecting soil samples following removal of USTs, product piping, and dispensers as directed by the City of Oakland Fire Department.

2.0 SOIL INFORMATION

This section summarizes the pertinent information concerning the Site location, Site geology, and hydrology, and the removed and installed USTs.

Site Location:

Southwest corner of Telegraph Avenue and 62nd Avenue in the

City of Oakland, California.

Site Geology:

Soil types encountered during the tank removal and previous site investigation activities consisted predominantly of clay and silty sand from the ground surface to the total depth of the investigations, approximately 20 feet below ground surface (bgs).

Local Hydrology:

Based on results of recent subsurface investigations conducted by Thrifty, groundwater was encountered to a depth of approximately 16 feet bgs.

Removed USTs and Associated Piping:

On February 4, 1998, three gasoline USTs and their associated piping were removed from the Site. The tanks consisted of two 10,000-gallon and one 12,000-gallon USTs, and were constructed of steel coated with fiberglass. The associated piping was comprised of both single-walled steel and single-walled fiberglass.

Installed USTs:

On February 10, 1998, two 20,000-gallon double-walled USTs were installed at the Site. One of the USTs is partitioned (two 10,000-gallon subtanks) to accommodate two different grades of fuel.

3.0 EXCAVATED SOIL

Excavation activities were performed by the K. E. Curtis Construction Company (KEC), of Newbury Park, California. The excavated soil was segregated based on volatile organic compound (VOC)) concentrations measured using a flame-ionization detector (FID). All excavated soil vas segregated and stockpiled according to the following criteria: soil which did not emit measured VOC concentrations greater than 50 ppmv, soil which emitted VOC concentrations measured between 50 and 100 ppmv, and soil which emitted VOC concentrations measured greater than 1,000 ppmv. To characterize the stockpiled soil, samples were collected from each stockpile and submitted to a laboratory for chemical analysis.

This section summarizes the pertinent information concerning the excavated soil, waste characterization, and final disposition of the excavated soil. For the purposes of this report, soil will be labeled "clean" and "impacted" based on results of chemical analysis. Stockpiles for which analytical results of soil samples are reported as not detectable are considered "clean" and stockpiles for which results of soil samples are reported to have detectable concentrations are considered "impacted".

Approximate Volume of "Clean" Stockpiled Soil:

200 cubic yards

Number of "Clean" Stockpile Samples:

6

"Clean" Stockpile Sample Names:

SS-2 through SS-6 and SS-8 (Table 1 and Appendix A)

Final Disposition of "Clean" Soil:

Used as backfill

Total Volume of Stockpiled "Impacted Soil:

977 tons

Number of "Impacted" Stockpile Samples:

16

"Impacted" Stockpile Sample Names:

SS-1, SS-7, SS-9 through SS-17, and SS-19 through SS-23 (Table 1 and Appendix A)

Final Dispositions of "Impacted" Soil:

TPS Technologies, Inc.,

Adalanto, California

(nonhazardous waste data forms

included in Appendix C)

Number of "Impacted" Groundwater Samples:

2

"Impacted" Groundwater Sample Names:

T-W and T-1

(Table 2 and Appendix B)

4.0 TANK REMOVAL

KEC was contracted by ARCO to obtain all necessary tank removal permits; make all required preliminary notifications; and clean, remove, transport, and dispose of the removed USTs. This section summarizes the pertinent information concerning the UST removal activities.

Lead Agency:

Oakland City Fire Department

Agency Contact Name:

Inspector Phillip Basada

Agency Phone Number:

(510) 238-3856

UST Cleaning Contractor:

Adams Services, Anaheim, California

Final Disposition of Rinseate:

DeMenno/Kerdoon, 2000 North Alameda Street, Compton, California 90222 (Uniform Hazardous

Waste Manifest included as Appendix D)

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3

Final Disposition of USTs:

Adams Steel, 3200 East Frontiera Road, Anaheim, California 92806 (Tank Destruction Certificate included as Appendix E)

5.0 SOIL SAMPLING

PEG collected soil samples under the direction of Inspector Basada of the Oakland City Fire Department. The field activities were conducted in accordance with the procedures for soil sampling located in Appendix F. Soil sample locations are indicated on Figure 1. Soil sample collection dates are indicated on the chain of custody documentation included in Appendix B. This section summarizes the results of the soil sampling activities.

Lead Agency: Oakland City Fire Department

Agency Contact Name: Inspector Phillip Basada

Agency Phone Number: (510) 238-3856

Number of Tank Bottom Samples: 4

Tank Bottom Sample Names: T-1(8'), T-2(8'), T-3(8'), T-4(8')

Number of Piping Samples: 6

Piping Sample Names: P-1 through P-6

Number of Dispenser Samples: 0

Dispenser Sample Names: Not Applicable

6.0 ANALYTICAL RESULTS

All soil samples were relinquished to Columbia Analytical Services, Inc. of Santa Clara, California (CAS). CAS is an ARCO-contracted and California Department of Health Services certified laboratory. PEG and CAS adhered to strict chain of custody procedures from sample collection to sample analysis. All soil and groundwater samples were analyzed for some of the following analytes and in accordance with the appropriate United States Environmental Protection Agency (EPA) method.

- Total petroleum hydrocarbons as gasoline (TPH-g) by EPA Method 8015 Modified
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020
- Methyl tert-butyl ether (MtBE) by EPA Method 8020 Modified
- Total lead by EPA Method 6010A

Soil sample analytical results are summarized in Table 1 and soil sample locations are indicated on Figure 1. Copies of soil sample chain of custody documentation and laboratory analytical reports are included as Appendix A. Groundwater sample analytical results are summarized in Table 2. Copies of groundwater sample chain of custody documentation and laboratory analytical reports are included as Appendix B.

7.0 DISCUSSION OF RESULTS

Based on analytical results (Table 1), the following areas, as defined by the indicated soil samples, appear to be impacted by petroleum hydrocarbons. The impacted soil and other subsurface conditions are the result of operations at Thrifty Service Station No. 63.

- Former UST basin (T-1(8'), T-2(8'), T-3(8'), and T-4(8'))
- Product Piping Trenches (P-1 through P-6)

8.0 REMARKS/SIGNATURES

The procedures and protocol used for this work are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this location. Other than this, no warranty is implied or intended.

PACIFIC ENVIRONMENTAL GROUP, INC.

CL. Roberts Chris Rohlfing

Senior Staff Geologist

Date 8-31-98

Gary Postana, R.G.

Project Manager

Date F/7,/98

cc: Kateri Luka



9.0 References

Divisions of Mines and Geology (DMG), 1979, Geology of Northern California, Bulletin 190.

United States Geological Survey (USGS), 1969, Oakland West Quadrangle, 7.5 minute topographic, photorevised 1980.

TABLES

TABLE 1 6125 TELEGRAPH AVENUE SOIL SAMPLE ANALYTICAL RESULTS FORMER TANK BASIN, PRODUCT PIPING, DISPENSERS, RORMER THRIFTY SERVICE STATION NO. 63 FORMER THRIFTY SERVICE STATION NO. 63 FORMER THRIFTY SERVICE STATION NO. 63

DEC PROJECT NUMBER 331-008.1B

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20.0>	200.0>	200.0>	200.0>	\$00.0>	0.1>	AN	T-3(8')
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		uB/kg)	ENTRATIONS (1	CONC			SYMBLE

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PORMER THRIFTY SERVICE STATION NO. 63 FORMER TANK BASIN, PRODUCT PIPING, DISPENSERS, SOIL SAMPLE ANALYTICAL RESULTS

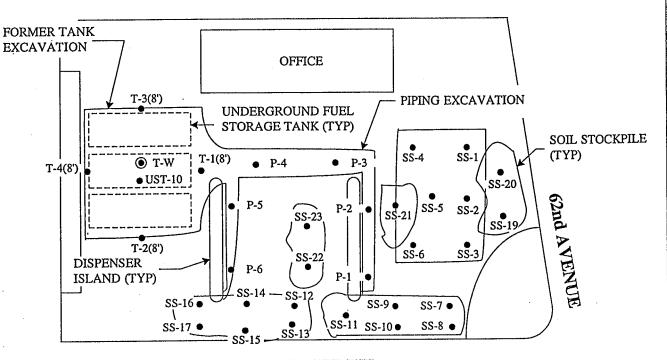
PEG PROJECT NUMBER 331-008,1B

				Method 8015M).		oleum hydrocarbon YE-butyl ether (EPA	91:HEE=Mothylite See Not analyze:Al
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7.1>	61	5.5	I.p	22.0	740	AN	77-SS
2.0>	4.2	<i>SL</i> :0	9.0	20.0>	98	AN	IZ-SS
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24.0	24.0	1.0	0.055	₽ 0.0	SI	18	61-SS
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		ng/kg)	ENTRATIONS (СОИС			SYMLE

TABLE 2 PEG PROJECT NUMBER 331-008.1B FORMER THRIFTY SERVICE STATION NO. 63 FORMER THRIFTY SERVICE STATION NO. 63 FORMER THRIFTY SERVICE STATION NO. 63 FORMER THRIFTY SERVICE STATION NO. 63

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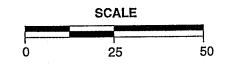
FIGURE



TELEGRAPH AVENUE

LEGEND

T-1 • SOIL SAMPLE LOCATION AND DESIGNATION





PACIFIC ENVIRONMENTAL GROUP, INC. FORMER THRIFTY SERVICE STATION 63
6125 Telegraph Avenue
Oakland, California

SITE MAP

FIGURE:

PROJECT: 331-008.1B

ATTACHMENT A

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION – SOIL SAMPLES

Analytical Report

Client:

Pacific Environmental Group 6125 Telegraph/331-008.1B

Project:
Sample Matrix:

Soil

Service Request: \$9800243 Date Collected: 2/4/98

Date Received: 2/5/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

T-1(8')

Lab Code:

S9800243-001

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	2	2/5/98	2/5/98	61	
Benzene	EPA 5030	8020	0.005	2	2/5/98	2/5/98	0.085	
Toluene	EPA 5030	8020	0.005	2	2/5/98	2/5/98	1.3	
Ethylbenzene	EPA 5030	8020	0.005	2	2/5/98	2/5/98	0.77	
Xylenes, Total	EPA 5030	8020	0.005	2	2/5/98	2/5/98	4.6	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	2	2/5/98	2/5/98	0.60	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800243

Date Collected: 2/4/98

Date Received: 2/5/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

T-2(8')

Lab Code:

S9800243-002

Test Notes:

Units: mg/Kg (ppm)

Basis: Wet

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	5	2/5/98	2/6/98	260	
Benzene	EPA 5030	8020	0.005	5	2/5/98	2/6/98	<0.03	C1
Toluene	EPA 5030	8020	0.005	5	2/5/98	2/6/98	0.18	
Ethylbenzene	EPA 5030	8020	0.005	5	2/5/98	2/6/98	3.0	
	EPA 5030	8020	0.005	5	2/5/98	2/6/98	1.1	
Xylenes, Total Methyl-tert-butyl ether	EPA 5030	8020	0.05	5	2/5/98	2/6/98	<0.3	C1

The MRL was elevated due to high analyte concentration requiring sample dilution.

1S22/020597p

C1

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800243

Date Collected: 2/4/98

Date Received: 2/5/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

T-3(8')

Lab Code:

S9800243-003

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/5/98	2/6/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/5/98	2/6/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/5/98	2/6/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/5/98	2/6/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/5/98	2/6/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/5/98	2/6/98	ND	

Analytical Report

Client:

Pacific Environmental Group 6125 Telegraph/331-008.1B

Project: Sample Matrix:

Soil

Service Request: S9800243

Date Collected: 2/4/98

Date Received: 2/5/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

T-4(8')

Lab Code:

S9800243-004

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/5/98	2/6/98	2	
Benzene	EPA 5030	8020	0.005	1	2/5/98	2/6/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/5/98	2/6/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/5/98	2/6/98	ND .	
Xylenes, Total	EPA 5030	8020	0.005	1	2/5/98	2/6/98	0.01	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/5/98	2/6/98	0.07	

Analytical Report

Client:

Pacific Environmental Group

Project:

Thrifty Oil Co. #63/331-008.1B

Sample Matrix:

Soil

Service Request: S9800268

Date Collected: 2/10/98

Date Received: 2/10/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

UST-10

Lab Code:

S9800268-002

Test Notes:

Units: mg/Kg (ppm)

Basis: Wet

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	25	2/10/98	2/10/98	210	
Benzene	EPA 5030	8020	0.005	25	2/10/98	2/10/98	< 0.12	C1
Toluene	EPA 5030	8020	0.02	25	2/10/98	2/10/98	<0.5	CI
Ethylbenzene	EPA 5030	8020	0.005	25	2/10/98	2/10/98	0.71	•
Xylenes, Total	EPA 5030	8020	0.02	25	2/10/98	2/10/98	1.1	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	25	2/10/98	2/10/98	<1.2	C1

The MRL was elevated due to high analyte concentration requiring sample dilution.

1S22/020597p

C1

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soil

Service Request: \$9800363

Date Collected: 2/23/98

Date Received: 2/23/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

P-1(3')

Lab Code:

S9800363-001

Test Notes:

Units: mg/Kg (ppm)

Basis: Wet

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
221111J+0	2120410	2.20000						
TPH as Gasoline	EPA 5030	CA/LUFT	1	5	2/23/98	2/23/98	49	
Benzene	EPA 5030	8020	0.005	5	2/23/98	2/23/98	0.071	
Toluene	EPA 5030	8020	0.005	5	2/23/98	2/23/98	0.39	
Ethylbenzene	EPA 5030	8020	0.005	5	2/23/98	2/23/98	0.44	
Xylenes, Total	EPA 5030	8020	0.005	5	2/23/98	2/23/98	2.6	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	5	2/23/98	2/23/98	<0.25	C1

The MRL was elevated due to high analyte concentration requiring sample dilution.

1S22/020597p

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Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Service Request: S9800363 Date Collected: 2/23/98

Date Received: 2/23/98

Units: mg/Kg (ppm)

Basis: Wet

BTEX, MTBE and TPH as Gasoline

Sample Name:

P-2(3')

Lab Code:

S9800363-002

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	100	2/23/98	2/24/98	1200	
	EPA 5030	8020	0.005	100	2/23/98	2/24/98	1.7	
Benzene Toluene	EPA 5030	8020	0.005	100	2/23/98	2/24/98	24	
	EPA 5030	8020	0.005	100	2/23/98	2/24/98	21	
Ethylbenzene	EPA 5030	8020	0.005	100	2/23/98	2/24/98	96	
Xylenes, Total Methyl-tert-butyl ether	EPA 5030	8020	0.05	100	2/23/98	2/24/98	15	

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soil

Service Request: S9800363

Date Collected: 2/23/98

Date Received: 2/23/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

P-3(3')

Lab Code:

\$9800363-003

Units: mg/Kg (ppm)
Basis: Wet

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	5	2/23/98	2/24/98	<5	Cl
Benzene	EPA 5030	8020	0.005	5	2/23/98	2/24/98	0.062	
Toluene	EPA 5030	8020	0.005	5	2/23/98	2/24/98	0.092	
Ethylbenzene	EPA 5030	8020	0.005	5	2/23/98	2/24/98	0.031	
Xylenes, Total	EPA 5030	8020	0.005	5	2/23/98	2/24/98	0.098	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	5	2/23/98	2/ 24/98	9.4	

The MRL was elevated due to high analyte concentration requiring sample dilution.

1S22/020597p

C1

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soil

Service Request: S9800363

Date Collected: 2/23/98

Date Received: 2/23/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

P-4(3')

Lab Code:

S9800363-004

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	100	2/23/98	2/24/98	310	
Benzene	EPA 5030	8020	0:005	100	2/23/98	2/24/98	1.6	
Toluene	EPA 5030	8020	0.005	100	2/23/98	2/24/98	25	
Ethylbenzene	EPA 5030	8020	0.005	100	2/23/98	2/24/98	7.4 .	
Xylenes, Total	EPA 5030	8020	0.005	100	2/23/98	2/24/98	47	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	100	2/23/98	2/24/98	26	

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soil

Service Request: S9800363

Date Collected: 2/23/98
Date Received: 2/23/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

P-5(3')

Units: mg/Kg (ppm)

Basis: Wet

Lab Code:

S9800363-005

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	50	2/23/98	2/24/98	920	
Benzene	EPA 5030	8020	0.005	50	2/23/98	2/24/98	6.5	
Toluene	EPA 5030	8020	0.005	50	2/23/98	2/24/98	35	
Ethylbenzene	EPA 5030	8020	0.005	50	2/23/98	2/24/98	15	
Xylenes, Total	EPA 5030	8020	0.005	50	2/23/98	2/24/98	78	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	50	2/23/98	2/24/98	13	

1S22/020597p

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Date Collected: 2/23/98

Service Request: \$9800363

Sample Matrix:

Date Received: 2/23/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

P-6(3')

Units: mg/Kg (ppm)

Lab Code:

S9800363-006

Basis: Wet

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	50	2/23/98	2/24/98	330	
Benzene	EPA 5030	8020	0.005	50	2/23/98	2/24/98	1.9	
Toluene	EPA 5030	8020	0.005	50	2/23/98	2/24/98	5.5	
Ethylbenzene	EPA 5030	8020	0.005	50	2/23/98	2/24/98	8.3	
Xylenes, Total	EPA 5030	8020	0.005	50	2/23/98	2/24/98	38	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	50	2/23/98	2/24/98	<2.5	C1

The MRL was elevated due to high analyte concentration requiring sample dilution.

1S22/020597p

Cl

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98

Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-1

Units: mg/Kg (ppm)

Lab Code:

S9800228-001

Basis: Wet

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.022	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/4/98	0.56	

Analytical Report

Client:

Pacific Environmental Group 6125 Telegraph/331-008.1B

Project: Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98 Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-2

Lab Code:

S9800228-002

Units: mg/Kg (ppm) Basis: Wet

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/3/98	ND	
Benzene	EPA 5030	8020	0.005	10000	2/3/98	2/3/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/3/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98
Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-3

Lab Code:

S9800228-003

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/3/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/3/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Service Request: S9800228 Date Collected: 2/3/98

Sample Matrix:

Soil

Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-4

Units: mg/Kg (ppm)

Lab Code:

S9800228-004

Basis: Wet

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline .	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/4/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98
Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-5

55-

Lab Code:

Test Notes:

S9800228-005

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/4/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98
Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-6

Lab Code:

S9800228-006

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98	ND	
Benzene	EPA 5030	8020	0.005	1 .	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	we to
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/4/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98

Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-7

Lab Code:

S9800228-007

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98 ·	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.009	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.008	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	i	2/3/98	2/4/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98
Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-8

Lab Code:

S9800228-008

Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
•	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Xylenes, Total Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/4/98	ND	
			•			*		

1S22/020597p

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Service Request: S9800228

Date Collected: 2/3/98

Date Received: 2/3/98

Units: mg/Kg (ppm)

Basis: Wet

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-9

Lab Code:

S9800228-009

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.006	
Ethylbenzene	EPA 5030	8020	0.005	i	2/3/98	2/4/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.017	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/4/98	ND	

1S22/020597p

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98

Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-10

Lab Code:

S9800228-010

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	•
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.016	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/4/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

ς Soil

Service Request: S9800228

Date Collected: 2/3/98 Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-11

Lab Code:

S9800228-011

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	I	2/3/98	2/4/98	0.007	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.007	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/4/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98

Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-12

Lab Code:

S9800228-012

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.032	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.017	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.19	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/4/98	0.56	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98

Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-13

Lab Code:

S9800228-013

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	50	2/3/98	2/4/98	2700	
Benzene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	4.03	
Toluene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	66	
Ethylbenzene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	42	
Xylenes, Total	EPA 5030	8020	0.005	50	2/3/98	2/4/98	220	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	50	2/3/98	2/4/98	6.4	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98

Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-14

Lab Code:

S9800228-014

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/4/98	4	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.74	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.047	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/4/98	0.33	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	. 1	2/3/98	2/4/98	0.86	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98

Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-15

Lab Code:

S9800228-015

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	50	2/3/98	2/4/98	3600	
Benzene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	4.2	
Toluene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	78	
Ethylbenzene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	49	
Xylenes, Total	EPA 5030	8020	0.005	50	2/3/98	2/4/98	260	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	50	2/3/98	2/4/98	7.3	

Analytical Report

Client: Project: Pacific Environmental Group 6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98
Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-16

Lab Code:

S9800228-016

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	50	2/3/98	2/4/98	2100	
Benzene	EPA 5030	8020	0.005	.50	2/3/98	2/4/98	2.4	
Toluene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	41	
Ethylbenzene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	27	
Xylenes, Total	EPA 5030	8020	0.005	50	2/3/98	2/4/98	130	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	50	2/3/98	2/4/98	5.2	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98

Date Received: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-17

Lab Code:

S9800228-017

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	50	2/3/98	2/4/98	2900	
Benzene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	3.8	
Toluene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	67	
Ethylbenzene	EPA 5030	8020	0.005	. 50	2/3/98	2/4/98	42	
Xylenes, Total	EPA 5030	8020	0.005	50	2/3/98	2/4/98	230	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	50	2/3/98	2/4/98	4.7	

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soil

Service Request: S9800362

Date Collected: 2/23/98

Date Received: 2/23/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-19

Units: mg/Kg (ppm) Basis: Wet

Lab Code:

S9800362-001

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Noțes
TPH as Gasoline	EPA 5030	CA/LUFT	1	2.5	2/23/98	2/23/98	15	
Benzene	EPA 5030	8020	0.005	2.5	2/23/98	2/23/98	0.04	
Toluene	EPA 5030	8020	0.005	2.5	2/23/98	2/23/98	0.055	
	EPA 5030	8020	0.005	2.5	2/23/98	2/23/98	0.1	
Ethylbenzene	EPA 5030	8020	0.005	2.5	2/23/98	2/23/98	0.42	
Xylenes, Total Methyl-tert-butyl ether	EPA 5030	8020	0.05	2.5	2/23/98	2/23/98	0.45	

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soil

Service Request: \$9800362

Date Collected: 2/23/98

Date Received: 2/23/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-20

Units: mg/Kg (ppm)

Lab Code:

S9800362-002

Basis: Wet

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	25	2/23/98	2/24/98	270	
Benzene	EPA 5030	8020	0.005	25	2/23/98	2/24/98	<0.12	Cl
Toluene	EPA 5030	8020	0.005	25	2/23/98	2/24/98	1.9	
Ethylbenzene	EPA 5030	8020	0.005	25	2/23/98	2/24/98	2.7	
Xylenes, Total	EPA 5030	8020	0.005	25	2/23/98	2/24/98	16	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	25	2/23/98	2/24/98	<1.2	C1

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soi

Service Request: S9800362

Date Collected: 2/23/98

Date Received: 2/23/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-21

Lab Code:

S9800362-003

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	10	2/23/98	2/24/98	86	
Benzene	EPA 5030	8020	0.005	10	2/23/98	2/24/98	<0.05	C1
Toluene	EPA 5030	8020	0.005	. 10	2/23/98	2/24/98	0.6	
Ethylbenzene	EPA 5030	8020	0.005	10	2/23/98	2/24/98	0.75	
Xylenes, Total	EPA 5030	8020	0.005	10	2/23/98	2/24/98	4.2	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	10	2/23/98	2/24/98	<0.5	C1

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soil

Service Request: S9800362

Date Collected: 2/23/98

Date Received: 2/23/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-22

22-2

Lab Code: Test Notes: S9800362-004

Units: mg/Kg (ppm)
Basis: Wet

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	25	2/23/98	2.24/98	2 40 ·	
Benzene	EPA 5030	8020	0.005	25	2/23/98	2.24/98	0.25	
Toluene	EPA 5030	8020	0.005	25	2/23/98	2.24/98	4.1	
Ethylbenzene	EPA 5030	8020	0.005	25	2/23/98	2.24/98	3.3	
Xylenes, Total	EPA 5030	8020	0.005	25	2/23/98	2.24/98	19	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	25	2/23/98	2.24/98	<1.2	C1

The MRL was elevated due to high analyte concentration requiring sample dilution.

1S22/020597p

C1

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Service Request: \$9800362

Date Collected: 2/23/98

Date Received: 2/23/98

Units: mg/Kg (ppm)

Basis: Wet

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-23

Lab Code:

\$9800362-005

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/23/98	2/23/98	1	
Benzene	EPA 5030	8020	0.005	1	2/23/98	2/23/98	ND	
Toluene	EPA 5030	8020	0.005	. 1	2/23/98	2/23/98	0.007	
Ethylbenzene	EPA 5030	8020	0.005	1	2/23/98	2/23/98	0.007	
Xylenes, Total	EPA 5030	8020	0.005	1	2/23/98	2/23/98	0.082	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/23/98	2/23/98	0.1	

1S22/020597p

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Date Collected: 2/3/98

Service Request: S9800228

Sample Matrix:

Soil

Date Received: 2/3/98

Total Metals

Lead

Prep Method:

EPA 3050BM

Units: mg/Kg (ppm)

Analysis Method:

6010A

Basis: Wet

Test Notes:

Sample Name	Lab Code	MRL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
SS-1	S9800228-001	5	1	2/4/98	2/4/98	ND	
SS-8	S9800228-008	5	1	2/4/98	2/4/98	ND	
SS-15	S9800228-015	5	1	2/4/98	2/4/98	6	
Method Blank	S980204-MB	5	1	2/4/98	2/4/98	ND	

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Service Request: S9800362 Date Collected: 2/23/98

Date Received: 2/23/98

Total Metals

Lead

Prep Method:

EPA 3050BM

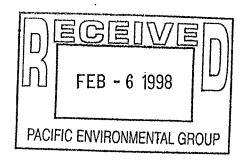
Analysis Method:

6010A

Test Notes:

Units: mg/Kg (ppm)

Sample Name	Lab Code	MRL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
SS-19 Method Blank	S9800362-001 S980223-MB	5 5	1	2/23/98 2/23/98	2/23/98 2/23/98	31 ND	•





February 4, 1998

Service Request No.: S9800228

Doug Andrews
PACIFIC ENVIRONMENTAL GROUP
2025 Gateway Place, Suite 440
San Jose, CA 95110

RE: 6125 Telegraph/331-008.1B

Dear Mr. Andrews:

The following pages contain analytical results for sample(s) received by the laboratory on February 3, 1998. Results of sample analyses are followed by Appendix A which contains sample custody documentation and quality assurance deliverables requested for this project. The work requested has been assigned the Service Request No. listed above. To help expedite our service, please refer to this number when contacting the laboratory.

Analytical results were produced by procedures consistent with Columbia Analytical Services' (CAS) Quality Assurance Manual (with any deviations noted). Signature of this CAS Analytical Report below confirms that pages 2 through 25, following, have been thoroughly reviewed and approved for release in accord with CAS Standard Operating Procedure ADM-DatRev3.

Please feel welcome to contact me should you have questions or further needs.

Sincerely,

Steven L. Green Project Chemist

Acronyms

A2LA American Association for Laboratory Accreditation

ASTM American Society for Testing and Materials

BOD Biochemical Oxygen Demand

BTEX Benzene, Toluene, Ethylbenzene, Xylenes

CAM California Assessment Metals
CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit
COD Chemical Oxygen Demand

DEC Department of Environmental Conservation
DEQ Department of Environmental Quality
DHS Department of Health Services
DLCS Duplicate Laboratory Control Sample

DMS Duplicate Matrix Spike
DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

IC Ion Chromatography

ICB Initial Calibration Blank sample

ICP Inductively Coupled Plasma atomic emission spectrometry

ICV Initial Calibration Verification sample

J Estimated concentration. The value is less than the MRL, but greater than or equal to

the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.

LUFT Laboratory Control Sample
LUFT Leaking Underground Fuel Tank

M Modified

MBAS Methylene Blue Active Substances

MCL Maximum Contaminant Level. The highest permissible concentration of a

substance allowed in drinking water as established by the U. S. EPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

MS Matrix Spike

MTBE Methyl tert-Butyl Ether
NA Not Applicable

NAN Not Applicable
NAN Not Analyzed
NC Not Calculated

NCASI National Council of the paper industry for Air and Stream Improvement
ND Not Detected at or above the method reporting/detection limit (MRL/MDL)

NIOSH National Institute for Occupational Safety and Health

NTU Nephelometric Turbidity Units

ppb Parts Per Billion ppm Parts Per Million

PQL Practical Quantitation Limit
QA/QC Quality Assurance/Quality Control
RCRA Resource Conservation and Recovery Act

RPD Relative Percent Difference SIM Selected Ion Monitoring

SM Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992

STLC Solubility Threshold Limit Concentration

SW Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,

3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.

TCLP Toxicity Characteristic Leaching Procedure

TDS Total Dissolved Solids
TPH Total Petroleum Hydrocarbons

tr Trace level. The concentration of an analyte that is less than the PQL but greater than or equal

to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding.

TRPH Total Recoverable Petroleum Hydrocarbons

TSS Total Suspended Solids

TTLC Total Threshold Limit Concentration

VOA Volatile Organic Analyte(s) ACRONLST.DOC 7/14/95



February 6, 1998

Service Request No.: S9800243

Doug Andrews
PACIFIC ENVIRONMENTAL GROUP
2025 Gateway Place, Suite 440
San Jose, CA 95110

RE: 6125 Telegraph/331-008.1B

Dear Mr. Andrews:

The following pages contain analytical results for sample(s) received by the laboratory on February 5, 1998. Results of sample analyses are followed by Appendix A which contains sample custody documentation and quality assurance deliverables requested for this project. The work requested has been assigned the Service Request No. listed above. To help expedite our service, please refer to this number when contacting the laboratory.

Analytical results were produced by procedures consistent with Columbia Analytical Services' (CAS) Quality Assurance Manual (with any deviations noted). Signature of this CAS Analytical Report below confirms that pages 2 through 9, following, have been thoroughly reviewed and approved for release in accord with CAS Standard Operating Procedure ADM-DatRev3.

Please feel welcome to contact me should you have questions or further needs.

Sincerely

Steven L. Green Project Chemist

Acronyms

A2LA American Association for Laboratory Accreditation

ASTM American Society for Testing and Materials

BOD Biochemical Oxygen Demand

BTEX Benzene, Toluene, Ethylbenzene, Xylenes

CAM California Assessment Metals
CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit
COD Chemical Oxygen Demand

DEC Department of Environmental Conservation
DEQ Department of Environmental Quality
DHS Department of Health Services
DLCS Duplicate Laboratory Control Sample

DMS Duplicate Matrix Spike
DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

IC Ion Chromatography

ICB Initial Calibration Blank sample

ICP Inductively Coupled Plasma atomic emission spectrometry

ICV Initial Calibration Verification sample

J Estimated concentration. The value is less than the MRL, but greater than or equal to

the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.

LUST Laboratory Control Sample
LUFT Leaking Underground Fuel Tank

M Modified

MBAS Methylene Blue Active Substances

MCL Maximum Contaminant Level. The highest permissible concentration of a

substance allowed in drinking water as established by the U. S. EPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

MS Matrix Spike

MTBE Methyl tert-Butyl Ether

NA Not Applicable
NAN Not Analyzed
NC Not Calculated

NCASI

National Council of the paper industry for Air and Stream Improvement

ND

Not Detected at or above the method reporting/detection limit (MRL/MDL)

NIOSH National Institute for Occupational Safety and Health

NTU Nephelometric Turbidity Units

ppb Parts Per Billion ppm Parts Per Million

PQL Practical Quantitation Limit
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RCRA Resource Conservation and Recovery Act

RPD Relative Percent Difference SIM Selected Ion Monitoring

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STLC Solubility Threshold Limit Concentration

SW Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,

3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.

TCLP Toxicity Characteristic Leaching Procedure

TDS Total Dissolved Solids

TPH Total Petroleum Hydrocarbons

tr Trace level. The concentration of an analyte that is less than the PQL but greater than or equal

to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding.

TRPH Total Recoverable Petroleum Hydrocarbons

TSS Total Suspended Solids

TTLC Total Threshold Limit Concentration

VOA Volatile Organic Analyte(s) ACRONLST.DOC 7/14/95



February 11, 1998

Service Request No.: S9800268

Mr. Doug Andrews PACIFIC ENVIRONMENTAL GROUP 2025 Gateway Place, Suite 440 San Jose, CA 95110

RE: Thrifty Oil Co. #63/331-008.1B

Dear Mr. Andrews:

The following pages contain analytical results for sample(s) received by the laboratory on February 10, 1998. Results of sample analyses are followed by Appendix A which contains sample custody documentation and quality assurance deliverables requested for this project. The work requested has been assigned the Service Request No. listed above. To help expedite our service, please refer to this number when contacting the laboratory.

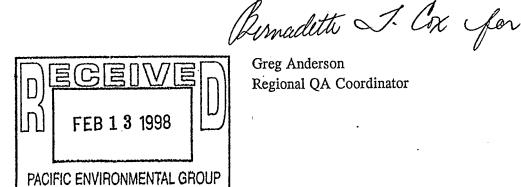
Analytical results were produced by procedures consistent with Columbia Analytical Services' (CAS) Quality Assurance Manual (with any deviations noted). Signature of this CAS Analytical Report below confirms that pages 2 through 10, following, have been thoroughly reviewed and approved for release in accord with CAS Standard Operating Procedure ADM-DatRev3.

Please feel welcome to contact me should you have questions or further needs.

Sincerely,

Steven L. Green

Project Chemist



Greg Anderson

Regional QA Coordinator

Acronyms

A2LA American Association for Laboratory Accreditation

ASTM American Society for Testing and Materials

BOD Biochemical Oxygen Demand

BTEX Benzene, Toluene, Ethylbenzene, Xylenes

CAM California Assessment Metals
CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit
COD Chemical Oxygen Demand

DEC Department of Environmental Conservation
DEQ Department of Environmental Quality
DHS Department of Health Services
DLCS Duplicate Laboratory Control Sample

DMS Duplicate Matrix Spike
DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

IC Ion Chromatography

ICB Initial Calibration Blank sample

ICP Inductively Coupled Plasma atomic emission spectrometry

ICV Initial Calibration Verification sample

J Estimated concentration. The value is less than the MRL, but greater than or equal to

the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.

LCS Laboratory Control Sample
LUFT Leaking Underground Fuel Tank

M Modified

MBAS Methylene Blue Active Substances

MCL Maximum Contaminant Level. The highest permissible concentration of a

substance allowed in drinking water as established by the U. S. EPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

MS Matrix Spike

MTBE Methyl tert-Butyl Ether

NA Not Applicable
NAN Not Analyzed
NC Not Calculated

NCASI

National Council of the paper industry for Air and Stream Improvement

ND

Not Detected at or above the method reporting/detection limit (MRL/MDL)

NIOSH National Institute for Occupational Safety and Health

NTU Nephelometric Turbidity Units

ppb Parts Per Billion
ppm Parts Per Million

PQL Practical Quantitation Limit
QA/QC Quality Assurance/Quality Control
RCRA Resource Conservation and Recovery Act

RPD Relative Percent Difference SIM Selected Ion Monitoring

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SW Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,

3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.

TCLP Toxicity Characteristic Leaching Procedure

TDS Total Dissolved Solids
TPH Total Petroleum Hydrocarbons

tr Trace level. The concentration of an analyte that is less than the PQL but greater than or equal

to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding.

TRPH Total Recoverable Petroleum Hydrocarbons

TSS Total Suspended Solids

TTLC Total Threshold Limit Concentration

VOA Volatile Organic Analyte(s) ACRONLST.DOC 7/14/95

Analytical Report

Client:

Pacific Environmental Group

Project:

Thrifty Oil Co. #63/331-008.1B

Sample Matrix:

Soil

Service Request: S9800268

Date Collected: 2/10/98

Date Received: 2/10/98

Total Metals

Lead

Prep Method:

EPA 3050BM

Analysis Method:

6010A

Units: mg/Kg (ppm)

Basis: Wet

Test Notes:

Sample Name	Lab Code	MRL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
UST-10	S9800268-002	5	1	2/10/98	2/10/98	9	
Method Blank	S980210-MB	5	1	2/10/98	2/10/98	ND	



February 24, 1998

Service Request No.: <u>S9800363</u>

Doug Andrews
PACIFIC ENVIRONMENTAL GROUP
2025 Gateway Place, Suite 440
San Jose, CA 95110

RE: Thrifty Oil Station 63/TO#21792.00/331-008.1B

Dear Mr. Andrews:

The following pages contain analytical results for sample(s) received by the laboratory on February 23, 1998. Results of sample analyses are followed by Appendix A which contains sample custody documentation and quality assurance deliverables requested for this project. The work requested has been assigned the Service Request No. listed above. To help expedite our service, please refer to this number when contacting the laboratory.

Analytical results were produced by procedures consistent with Columbia Analytical Services' (CAS) Quality Assurance Manual (with any deviations noted). Signature of this CAS Analytical Report below confirms that pages 2 through 13, following, have been thoroughly reviewed and approved for release in accord with CAS Standard Operating Procedure ADM-DatRev3.

Please feel welcome to contact me should you have questions or further needs.

Sincerely,

Steven L. Green

Project Chemist

Greg Anderson

Regional QA Coordinator

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Acronyms

A2LA American Association for Laboratory Accreditation

ASTM American Society for Testing and Materials

BOD Biochemical Oxygen Demand

BTEX Benzene, Toluene, Ethylbenzene, Xylenes

CAM California Assessment Metals
CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit
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DEQ Department of Environmental Quality
DHS Department of Health Services
DLCS Duplicate Laboratory Control Sample

DMS Duplicate Matrix Spike
DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

IC Ion Chromatography

ICB Initial Calibration Blank sample

ICP Inductively Coupled Plasma atomic emission spectrometry

ICV Initial Calibration Verification sample

J Estimated concentration. The value is less than the MRL, but greater than or equal to

the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.

LUFT Laboratory Control Sample
Leaking Underground Fuel Tank

M Modified

MBAS Methylene Blue Active Substances

MCL Maximum Contaminant Level. The highest permissible concentration of a

substance allowed in drinking water as established by the U. S. EPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

MS Matrix Spike

MTBE Methyl tert-Butyl Ether

NA Not Applicable
NAN Not Analyzed
NC Not Calculated

NCASI National Council of the paper industry for Air and Stream Improvement
ND Not Detected at or above the method reporting/detection limit (MRL/MDL)

NIOSH National Institute for Occupational Safety and Health

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SW Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,

3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.

TCLP Toxicity Characteristic Leaching Procedure

TDS Total Dissolved Solids
TPH Total Petroleum Hydrocarbons

tr Trace level. The concentration of an analyte that is less than the PQL but greater than or equal

to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding.

TRPH Total Recoverable Petroleum Hydrocarbons

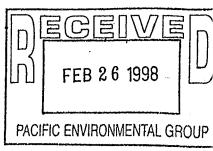
TSS Total Suspended Solids

TTLC Total Threshold Limit Concentration

VOA Volatile Organic Analyte(s)

ACRONLST.DOC 7/14/95





February 24, 1998

Service Request No.: S9800362

Doug Andrews PACIFIC ENVIRONMENTAL GROUP 2025 Gateway Place, Suite 440 San Jose, CA 95110

RE: Thrifty Oil Station 63/TO#21792.00/331-008.1B

Dear Mr. Andrews:

The following pages contain analytical results for sample(s) received by the laboratory on February 23, 1998. Results of sample analyses are followed by Appendix A which contains sample custody documentation and quality assurance deliverables requested for this project. The work requested has been assigned the Service Request No. listed above. To help expedite our service, please refer to this number when contacting the laboratory.

Analytical results were produced by procedures consistent with Columbia Analytical Services' (CAS) Quality Assurance Manual (with any deviations noted). Signature of this CAS Analytical Report below confirms that pages 2 through 14, following, have been thoroughly reviewed and approved for release in accord with CAS Standard Operating Procedure ADM-DatRev3.

Please feel welcome to contact me should you have questions or further needs.

Sincerely,

Steven L. Green Project Chemist Greg Anderson

Regional QA Coordinator

Pernadetto I Cox of

Acronyms

A2LA American Association for Laboratory Accreditation

ASTM American Society for Testing and Materials

BOD Biochemical Oxygen Demand

BTEX Benzene, Toluene, Ethylbenzene, Xylenes

CAM California Assessment Metals
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CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit
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DHS Department of Health Services
DLCS Duplicate Laboratory Control Sample

DMS Duplicate Matrix Spike
DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

IC Ion Chromatography

ICB Initial Calibration Blank sample

ICP Inductively Coupled Plasma atomic emission spectrometry

ICV Initial Calibration Verification sample

J Estimated concentration. The value is less than the MRL, but greater than or equal to the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.

LCS Laboratory Control Sample
LUFT Leaking Underground Fuel Tank

M Modified

MBAS Methylene Blue Active Substances

MCL Maximum Contaminant Level. The highest permissible concentration of a

substance allowed in drinking water as established by the U. S. EPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

MS Matrix Spike

MTBE Methyl tert-Butyl Ether
NA Not Applicable
NAN Not Applicable

NAN Not Analyzed NC Not Calculated

NCASI National Council of the paper industry for Air and Stream Improvement
ND Not Detected at or above the method reporting/detection limit (MRL/MDL)

NIOSH National Institute for Occupational Safety and Health

NTU Nephelometric Turbidity Units

ppb Parts Per Billion ppm Parts Per Million

PQL Practical Quantitation Limit

QA/QC Quality Assurance/Quality Control

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RPD Relative Percent Difference SIM Selected Ion Monitoring

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SW Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,

3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.

TCLP Toxicity Characteristic Leaching Procedure

TDS Total Dissolved Solids

TPH Total Petroleum Hydrocarbons

tr Trace level. The concentration of an analyte that is less than the PQL but greater than or equal

to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding.

TRPH Total Recoverable Petroleum Hydrocarbons

TSS Total Suspended Solids

TTLC Total Threshold Limit Concentration

VOA Volatile Organic Analyte(s) ACRONLST.DOC 7/14/95

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soil

Service Request: S9800363

Date Collected: NA
Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:

Method Blank

Lab Code:

S980223-SB1

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	_ 1	1	2/23/98	2/23/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/23/98	2/23/98	ND	
Toluene	EPA 5030	8020	0.005	. 1	2/23/98	2/23/98	ND ·	
Ethylbenzene	EPA 5030	8020	0.005	1	2/23/98	2/23/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/23/98	2/23/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/23/98	2/23/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: NA

Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:

Method Blank

Lab Code:

S980203-SB1

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/3/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Toluene	EPA 5030	8020	0.005	· 1	2/3/98	2/3/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/3/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: \$9800228

Date Collected: NA

Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:

Method Blank

Lab Code:

S98mmdd (#1)-SB1

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/3/98	ND	
Benzene	EPA 5030	8020	0.005	1 .	2/3/98	2/3/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/3/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: NA

Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:

Method Blank

Lab Code:

S98mmdd (#3)-SB1

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/3/98	2/3/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/3/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Service Request: S9800243

Date Collected: NA

. Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:

Method Blank

Lab Code:

S980205-SB1

Test Notes:

Units: mg/Kg (ppm) Basis: Wet

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/5/98	2/5/98	ND	
Benzene	EPA 5030	8020	0.005	· 1	2/5/98	2/5/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/5/98	2/5/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/5/98	2/5/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/5/98	2/5/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/5/98	2/5/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

Thrifty Oil Co. #63/331-008.1B

Sample Matrix:

Service Request: S9800268

Date Collected: NA

Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:

Method Blank

Lab Code:

S980210-SB1

Test Notes:

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/10/98	2/10/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/10/98	2/10/98	ND	
Toluene	EPA 5030	8020	0.02	1	2/10/98	2/10/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1	2/10/98	2/10/98	ND	
Xylenes, Total	EPA 5030	8020	0.02	1	2/10/98	2/10/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/10/98	2/10/98	ND	

Analytical Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soil

Service Request: S9800362

Date Collected: NA

Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:

Method Blank

Lab Code:

Test Notes:

S980223-SB1

Basis: Wet

Units: mg/Kg (ppm)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	1	1	2/23/98	2/23/98	ND	
Benzene	EPA 5030	8020	0.005	1	2/23/98	2/23/98	ND	
Toluene	EPA 5030	8020	0.005	1	2/23/98	2/23/98	ND	
Ethylbenzene	EPA 5030	8020	0.005	1 .	2/23/98	2/23/98	ND	
Xylenes, Total	EPA 5030	8020	0.005	1	2/23/98	2/23/98	ND	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/23/98	2/23/98	ND	

QA/QC Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800228

Date Collected: NA

Date Received: NA

Date Extracted: NA

Date Analyzed: NA

Surrogate Recovery Summary BTEX and TPH as Gasoline

Prep Method:

EPA 5030

Analysis Method:

DEA JUL

8020 CA/LUFT

Units: PERCENT

Basis: NA

Sample Name	Lab Code	Test Notes	Percent 4-Bromofluorobenzene	Recovery a,a,a-Trifluorotoluene
SS-1	S9800228-001		89	79
SS-2	S9800228-002		88	85
SS-3	S9800228-003		91	87
SS-4	S9800228-004	•	90	81
SS-5	S9800228-005		93	85
SS-6	S9800228-006		86	73
SS-7	S9800228-007		92	82
SS-8	S9800228-008		91	83
SS-9	S9800228-009		90	80
SS-10	S9800228-010		88	69
SS-11	S9800228-011		92	80
SS-12	S9800228-012		92	801
SS-13	S9800228-013		93	110
SS-14	S9800228-014		99	92
SS-15	S9800228-015		93	125
SS-16	S9800228-016		102	114
SS-17	S9800228-017		100	114
Method Blank	S980203-SB1		100	80

CAS Acceptance Limits:

51-137

51-137

QA/QC Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Soil

Service Request: S9800243

Date Collected: NA

Date Received: NA

Date Extracted: NA

Date Analyzed: NA

Surrogate Recovery Summary BTEX and TPH as Gasoline

Prep Method:

EPA 5030

Analysis Method:

8020

CA/LUFT

Units: PERCENT

Basis: NA

Sample Name	Lab Code	Test Notes	Percent 4-Bromofluorobenzene	Recovery a,a,a-Trifluorotoluene
T-1(8')	S9800243-001		100	93
T-2(8')	S9800243-002		87	116
T-3(8')	S9800243-003		100	88
T-4(8')	S9800243-004		103	87 ·
Method Blank	S980205-SB1		96	89

CAS Acceptance Limits:

51-137

51-137

QA/QC Report

Client:

Pacific Environmental Group

Project:

Thrifty Oil Co. #63/331-008.1B

Sample Matrix:

Soil

Service Request: S9800268

Date Collected: NA

Date Received: NA

Date Extracted: NA

Date Analyzed: NA

Surrogate Recovery Summary

BTEX and TPH as Gasoline

Prep Method:

EPA 5030

Analysis Method: 8020

Units: PERCENT

Basis: NA

Sample Name

CA/LUFT

Test Notes

Percent Recovery a,a,a-Trifluorotoluene 4-Bromofluorobenzene

UST-10

S9800268-002

Lab Code

91

97

Method Blank

S980210-SB1

97

89

CAS Acceptance Limits:

51-137

51-137

QA/QC Report

Client:

ARCO Products Company

Service Request: S9800363

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Date Collected: NA

Sample Matrix:

Soil

Date Received: NA

Date Extracted: NA

Date Analyzed: NA

Surrogate Recovery Summary BTEX and TPH as Gasoline

Prep Method:

EPA 5030

Units: PERCENT

Analysis Method:

8020

CA/LUFT

Basis: NA

Sample Name	Lab Code	Test Notes	Percent 4-Bromofluorobenzene	Recovery a,a,a-Trifluorotoluene
P-1(3')	S9800363-001		103	89
P-2(3')	S9800363-002		99	96
P-3(3')	S9800363-003		108	79
P-4(3')	S9800363-004		98	76
P-5(3')	S9800363-005		94	a, 105 grant 1
P-6(3')	S9800363-006		103	85
LCS	S980223-LCS		100	84
Method Blank	S980223-SB1		100	81

CAS Acceptance Limits:

51-137

51-137

QA/QC Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

LCS Matrix:

Soil

Service Request: S9800363

Date Collected: NA

Date Received: NA

Date Extracted: 2/23/98 Date Analyzed: 2/23/98

Laboratory Control Sample Summary BTEX and TPH as Gasoline

Sample Name:

Lab Control Sample

Lab Code:

S980223-LCS

Units: mg/Kg (ppm)

Basis: Wet

Test Notes:

·		·				CAS Percent Recovery	
Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	Acceptance Limits	Result Notes
Benzene	EPA 5030	8020	0.5	0.5	100	57-154	
Toluene	EPA 5030	8020	0.5	0.5	100	60-142	•
Ethylbenzene	EPA 5030	8020	0.5	0.5	100	46-150	

QA/QC Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Service Request: S9800363

Date Analyzed: 2/23/98

Initial Calibration Verification (ICV) Summary BTEX, MTBE and TPH as Gasoline

Sample Name:

ICV

Units: mg/Kg (ppm)

Lab Code:

ICV1

Test Notes:

Basis: Wet

ICV Source:					CAS		
24, 55					Percent Recovery	•	
	Prep	Analysis	True		Acceptance	Percent	Result
Analyte	Method	Method	Value	Result	Limits	Recovery	Notes
TPH as Gasoline	EPA 5030	CA/LUFT	25	26	90-110	104	
Benzene	EPA 5030	8020	2.5	2.5	85-115	100	
Toluene	EPA 5030	8020	2.5	2.5	85-115	100	
Ethylbenzene	EPA 5030	8020	2.5	2.5	85-115	100	
Xylenes, Total	EPA 5030	8020	7.5	7.1	85-115	95	
Methyl tert-Butyl Ether	EPA 5030	8020	2.5	2.5	85-115	100	

ICV/032196

QA/QC Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Sample Matrix:

Soil

Service Request: S9800362

Date Collected: NA

Date Received: NA
Date Prepared: 2/23/98

Date Analyzed: 2/23/98

Matrix Spike/Duplicate Matrix Spike Summary

Lead

Sample Name:

BATCH QC

SS-19-001MS,

SS-19-001DMS

Units: mg/Kg (ppm)

Basis: Wet

Lab Code: Test Notes:

Percent Recovery

									1 01		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	
											CAS	Relative	
	Prep	Analysis		Spik	e Level	Sample	Spike	Result			Acceptance	Percent	Result
Analyte	Method	Method	MRL	MS	DMS	Result	MS	DMS	MS	DMS	Limits	Difference	Notes
Lead	PA 3050B	6010A	5	500	500	31	510	550	96	104	75-125	8	

QA/QC Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Date Collected: NA

Service Request: S9800362

Sample Matrix:

Soil

Date Received: NA
Date Extracted: NA

Date Analyzed: NA

Surrogate Recovery Summary BTEX and TPH as Gasoline

Prep Method:

EPA 5030

DIEM and IIII as Casonic

Units: PERCENT

Analysis Method: 8020 CA/LUFT

Basis: NA

		Test	Percent	Recovery
Sample Name	Lab Code	Notes	4-Bromofluorobenzene	a,a,a-Trifluorotoluene
SS-19	S9800362-001		102	92
SS-20	S9800362-002		98	92
SS-21	S9800362-003		105	93
SS-22	S9800362-004		99	92
SS-23	S9800362-005		103	85
LCS	S980223-LCS		100	84
Method Blank	S980223-SB1		100	81

CAS Acceptance Limits:

51-137

51-137

QA/QC Report

Client:

ARCO Products Company

Project:

Thrifty Oil Station 63/TO#21792.00/331-008.1B

LCS Matrix:

Soil

Service Request: S9800362

Date Collected: NA

Date Received: NA

Date Extracted: 2/23/98

Date Analyzed: 2/23/98

Laboratory Control Sample Summary BTEX and TPH as Gasoline

Sample Name:

Lab Control Sample

Lab Code: Test Notes: S980223-LCS

Units: mg/Kg (ppm)

Basis: Wet

	Prep	Analysis	True	D 14	Percent	CAS Percent Recovery Acceptance	· Result Notes
Analyte	Method	Method	Value	Result	Recovery	Limits	Notes
Benzene	EPA 5030	8020	0.5	0.5	100	57-154	
Toluene	EPA 5030	8020	0.5	0.5	100	60-142	
Ethylbenzene	EPA 5030	8020	0.5	0.5	100	46-150	

QA/QC Report

Client: Project: ARCO Products Company

Thrifty Oil Station 63/TO#21792.00/331-008.1B

Service Request: \$9800362

Date Analyzed: 2/23/98

Initial Calibration Verification (ICV) Summary BTEX, MTBE and TPH as Gasoline

Sample Name:

ICV

Units: mg/Kg (ppm)

Lab Code:

Basis: Wet

ICV1

Test Notes:

				CAS		
				Percent Recovery	•	
Prep Method	Analysis Method	True Value	Result	Acceptance Limits	Percent Recovery	Result Notes
EPA 5030	CA/LUFT	25	26	90-110	104	
EPA 5030	8020	2.5	2.5	85-115	100	
EPA 5030	8020	2.5	2.5	85-115	100	
EPA 5030	8020	2.5	2.5	85-115	100	
EPA 5030	8020	7.5	7.1	85-115	95	
EPA 5030	8020	2.5	2.4	85-115	96	
	Method EPA 5030 EPA 5030 EPA 5030 EPA 5030 EPA 5030	MethodMethodEPA 5030CA/LUFTEPA 50308020EPA 50308020EPA 50308020EPA 50308020	Method Method Value EPA 5030 CA/LUFT 25 EPA 5030 8020 2.5 EPA 5030 8020 2.5 EPA 5030 8020 2.5 EPA 5030 8020 7.5	Method Method Value Result EPA 5030 CA/LUFT 25 26 EPA 5030 8020 2.5 2.5 EPA 5030 8020 2.5 2.5 EPA 5030 8020 2.5 2.5 EPA 5030 8020 7.5 7.1	Prep Analysis True Acceptance Method Wethod Value Result Limits EPA 5030 CA/LUFT 25 26 90-110 EPA 5030 8020 2.5 2.5 85-115 EPA 5030 8020 2.5 2.5 85-115 EPA 5030 8020 2.5 2.5 85-115 EPA 5030 8020 7.5 7.1 85-115	Prep Analysis True Acceptance Percent Method Method Value Result Limits Recovery EPA 5030 CA/LUFT 25 26 90-110 104 EPA 5030 8020 2.5 2.5 85-115 100 EPA 5030 8020 2.5 2.5 85-115 100 EPA 5030 8020 2.5 2.5 85-115 100 EPA 5030 8020 7.5 7.1 85-115 95 EPA 5030 8020 7.5 7.1 85-115 95

ICY/032196

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Columbia Analytical	TPHUDA	PU
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

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ATTACHMENT B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION – GROUNDWATER SAMPLES

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Water

Service Request: S9800242
Date Collected: 2/4/98

Date Received: 2/5/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

T-W

Lab Code:

S9800242-001

Test Notes:

Units: ug/L (ppb)

Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	100	NA	2/6/98	39000	
Benzene	EPA 5030	8020	0.5	100	NA	2/6/98	470	
Toluene	EPA 5030	8020	0.5	100	NA	2/6/98	3900	
Ethylbenzene	EPA 5030	8020	0.5	100	NA	2/6/98	760	
Xylenes, Total	EPA 5030	8020	0.5	100	NA	2/6/98	6100	
Methyl tert-Butyl Ether	EPA 5030	8020.	3	100	NA	2/6/98	8400	

Analytical Report

Client:

Pacific Environmental Group

Project:

Thrifty Oil Co. #63/331-008.1B

Sample Matrix:

Water

Service Request: S9800268

Date Collected: 2/10/98

Date Received: 2/10/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

T-1

Units: ug/L (ppb)

Lab Code:

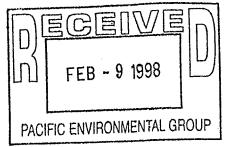
S9800268-001

Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	200	NA	2/10/98	130000	
Benzene	EPA 5030	8020	0.5	200	NA	2/10/98	800	
Toluene	EPA 5030	8020	0.5	200	NA	2/10/98	14000	
Ethylbenzene	EPA 5030	8020	0.5	200	NA	2/10/98	4500	
•	EPA 5030	8020	1	200	NA	2/10/98	27000	
Xylenes, Total Methyl <i>tert</i> -Butyl Ether	EPA 5030	8020	3	200	NA	2/10/98	3800	





February 6, 1998

Service Request No.: <u>S9800242</u>

Doug Andrews PACIFIC ENVIRONMENTAL GROUP 2025 Gateway Place, Suite 440 San Jose, CA 95110

RE: 6125 Telegraph/331-008.1B

Dear Mr. Andrews:

The following pages contain analytical results for sample(s) received by the laboratory on February 5, 1998. Results of sample analyses are followed by Appendix A which contains sample custody documentation and quality assurance deliverables requested for this project. The work requested has been assigned the Service Request No. listed above. To help expedite our service, please refer to this number when contacting the laboratory.

Analytical results were produced by procedures consistent with Columbia Analytical Services' (CAS) Quality Assurance Manual (with any deviations noted). Signature of this CAS Analytical Report below confirms that pages 2 through 6, following, have been thoroughly reviewed and approved for release in accord with CAS Standard Operating Procedure ADM-DatRev3.

Please feel welcome to contact me should you have questions or further needs.

Sincerely

Steven L. Green **Project Chemist**

Acronyms

A2LA American Association for Laboratory Accreditation

ASTM American Society for Testing and Materials

BOD Biochemical Oxygen Demand

BTEX Benzene, Toluene, Ethylbenzene, Xylenes

CAM California Assessment Metals
CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit
COD Chemical Oxygen Demand

DEC Department of Environmental Conservation
DEQ Department of Environmental Quality
DHS Department of Health Services
DLCS Duplicate Laboratory Control Sample

DMS Duplicate Matrix Spike
DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

IC Ion Chromatography

ICB Initial Calibration Blank sample

ICP Inductively Coupled Plasma atomic emission spectrometry

ICV Initial Calibration Verification sample

J Estimated concentration. The value is less than the MRL, but greater than or equal to

the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.

LCS Laboratory Control Sample
LUFT Leaking Underground Fuel Tank

M Modified

MBAS Methylene Blue Active Substances

MCL Maximum Contaminant Level. The highest permissible concentration of a

substance allowed in drinking water as established by the U. S. EPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

MS Matrix Spike

MTBE Methyl tert-Butyl Ether

NA Not Applicable
NAN Not Analyzed
NC Not Calculated

NCASI National Council of the paper industry for Air and Stream Improvement
ND Not Detected at or above the method reporting/detection limit (MRL/MDL)

NIOSH National Institute for Occupational Safety and Health

NTU Nephelometric Turbidity Units

ppb Parts Per Billion ppm Parts Per Million

PQL Practical Quantitation Limit
QA/QC Quality Assurance/Quality Control
RCRA Resource Conservation and Recovery Act

RPD Relative Percent Difference
SIM Selected Ion Monitoring

SM Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992

STLC Solubility Threshold Limit Concentration

SW Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,

3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.

TCLP Toxicity Characteristic Leaching Procedure

TDS Total Dissolved Solids

TPH Total Petroleum Hydrocarbons

tr Trace level. The concentration of an analyte that is less than the PQL but greater than or equal

to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding.

TRPH Total Recoverable Petroleum Hydrocarbons

TSS Total Suspended Solids

TTLC Total Threshold Limit Concentration

VOA Volatile Organic Analyte(s) ACRONLST.DOC 7/14/95

Analytical Report

Client:

Pacific Environmental Group

Project:

Thrifty Oil Co. #63/331-008.1B

Sample Matrix:

Water

Service Request: S9800268

Date Collected: NA

Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:

Method Blank

Lab Code:

S980210-WB1

Test Notes:

Units: ug/L (ppb)

Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	1	NA	2/10/98	ND	
Benzene	EPA 5030	8020	0.5	1	NA	2/10/98	ND	
Toluene	EPA 5030	8020	0.5	1	NA	2/10/98	ND	
Ethylbenzene	EPA 5030	8020	0.5	1	NA	2/10/98	ND	
•	EPA 5030	8020	1	1	NA	2/10/98	ND	
Xylenes, Total Methyl <i>tert-</i> Butyl Ether	EPA 5030	8020	3	1	NA	2/10/98	ND	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Water

Service Request: S9800242

Date Collected: NA

Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:

Method Blank

Lab Code:

S980206-WB1

Test Notes:

Units: ug/L (ppb)

Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	1	NA	2/6/98	ND	
Benzene	EPA 5030	8020	0.5	1	NA	2/6/98	ND	
Toluene	EPA 5030	8020	0.5	1	NA	2/6/98	ND	
	EPA 5030	8020	0.5	1	NA	2/6/98	ND	
Ethylbenzene Xylenes, Total	EPA 5030	8020	0.5	1	NA	2/6/98	ND	
Methyl tert-Butyl Ether	EPA 5030	8020	3	1	NA	2/6/98	ND	

QA/QC Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Water

Service Request: S9800242

Date Collected: NA

Date Received: NA

Date Extracted: NA

Date Analyzed: NA

Surrogate Recovery Summary BTEX, MTBE and TPH as Gasoline

Prep Method:

EPA 5030

8020 Analysis Method:

CA/LUFT

Units: PERCENT

Basis: NA

Percent Recovery Test a,a,a-Trifluorotoluene 4-Bromofluorobenzene Lab Code Notes Sample Name 99 98 S9800242-001 T-W 97 98 S980206-WB1 Method Blank

CAS Acceptance Limits:

69-116

69-116

QA/QC Report

Client:

Pacific Environmental Group

Project:

Thrifty Oil Co. #63/331-008.1B

Sample Matrix:

Water

Service Request: S9800268

Date Collected: NA

Date Received: NA

Date Extracted: NA

Date Analyzed: NA

Surrogate Recovery Summary

BTEX, MTBE and TPH as Gasoline

Prep Method:

Analysis Method:

EPA 5030

8020

CA/LUFT

Units: PERCENT

Basis: NA

Percent Recovery Test a,a,a-Trifluorotoluene Lab Code Notes 4-Bromofluorobenzene Sample Name 91 100 S9800268-001 T-1 97 93 Method Blank S980210-WB1

CAS Acceptance Limits:

69-116

69-116

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	Sample	Cont.	Container Size	Sample			Sampling	Sampling	VPHgas (8015/	TPH Diesel			(EPA 624/	(EPA 627/	(EPA 601/						
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ATTACHMENT C NONHAZARDOUS WASTE DATA FORMS

Soil Master (c)

TPS Technologies, Inc.

Customer Job Report Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

Job Number Name	S	iteAddress	Site	City	State	ZipCode
A04 00249 Thrifty OiV#63	 61	25 Telegraph Ave.	Oak	landd	ĊA	94110
Load # Date & Time Gut	Transporter#	Truck & Trailer Number	Gross	Tare (lb)	Net (lb)	Net Wt (tons)
2 02/11/93 08:35 1 02/11/98 08:40 3 02/11/98 08:46 11 02/11/98 09:26 4 02/11/98 09:53 5 02/11/98 10:26 10 02/11/98 11:42 9 02/11/98 12:08 6 02/11/98 13:17 8 02/11/98 13:50 7 02/11/98 14:51 12 02/11/98 15:29 13 02/12/98 08:05 14 02/12/98 09:35 15 02/12/98 10:00	4DENBES 4DENBES		91,700M 76,860M 100,940M 105,780M 84,62CM 93,740M 80,660M 93,960M 81,240M 96,580M 79,140M 95,760M 98,280M 95,730M 95,740M	30,380M 34,120M 33,740M 26,880M 34,120M 33,740M 34,120M 33,740M 34,120M 33,740M 34,120M 33,740M 33,740M 26,880M 32,760M	61,320 42,740 67,200 78,900 50,500 60,000 46,540 60,220 47,120 62,840 45,020 62,020 64,540 68,900 62,980 67,280	21.37 33.60 39.45 25.25 30.00 23.27 30.11 23.56 31.42 22.51 31.01 32.27 34.45 31.49 33.64
16 02/12/98 11:52 /19 02/12/98 11:57 20 02/12/98 14:20 21 02/12/98 14:40 22 02/13/98 10:46 25 02/13/98 11:19 24 02/13/98 13:02 23 02/13/98 13:25 26 02/13/98 15:12	4DENBES 4DENBES 4DENBES 4DENBES 4DENBES 4DENBES 4DENBES 4DENBES 4DENBES 4DENBES 4DENBES	Completed Weight	102,060 M 108,780 M 99,840 M 109,700 M 104,180 M 107,340 M 108,780 M 113,640 M	32,760M 26,880M 32,760M 26,880M 32,280M 26,880M 32,280M 32,280M	69,300 81,900 67,080 82,820 71,900 80,460 76,500 81,360	34.65 40.95 33.54 41.43 35.92 40.23 38.23

TPS Technologies, Inc.

Customer Job Report Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

Jöb Numb	er Name		SiteAddress	Sir	reCity	State	ZipCode
A04 0024	19 Thrifty Oil/#63		6125 Telegraph Ave.	Oa	klandd	CA	94110
Load#	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
41	02/26/98 07:36	4DENBES		73,320M	30,320M	43,000	21.50
28	02/26/98 08:20	4DENBES		86,300M	30,320M	55,980	27.99
. 27	02/26/98 08:52	4DENBES		76,560M	31,400M	45,160	22.58
29	02/26/98 09:03	4DENBES		72,800M	32,280M	40,520	20.26
30	02/26/98 09:13	4DENBES		79,880M	31,400M	48,480	24.24
32	02/26/98 09:52	4DENBES		76,140M	32,280M	43,860	21.93-
33	02/26/98 10:15	4DENBES	·	78,660M	30,320M	48,340	24.17
Complete		anifests Received	Completed Weight		d Weight		AL Net Wt:
75.0	50%	31	471.20%	200.00	(tons)		162.67 (tons)

Soil Master (c)

TPS Technologies, Inc

Customer Job Report
Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

	The state of the s	SiteAddress	Site	cCity	State	ZipCode
	63 -	6125 Telegraph Ave.	Oal	dandd	CA	94110
Load # Date & Time (42 03/10/98 10:0 43 03/10/98 13:0	1 4DENBES	Truck & Trailer Number	Gross (lb) 76,780M · 56,600M ·	Tare (lb) 31,860M - 31,860M -	Net (lb) 44,920 24,740	Net Wt (tons) 22.46 1 12.37
Completed Loads Manifests Received 79.10% 34		Completed Weight 504.60%	Estimate 200.00	-		AL Net Wt: 34.83 (tons)

$\label{eq:attachmentd} \text{UNIFORM HAZARDOUS WASTE MANIFEST}$

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11	door liveuoon rivo . Douber et aceto		AFRIA	ANAISI IQU		
11	10000 LAREWOOD BLVD.; DOWNEY, C1 00240 4. Generalor's Phone (562) 923-9876		1.7732415.	のでありまる (火星の場合)	38.5.164	
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	and the environment; OR, It tam a small quantity generator, I have made a good latth effort evaluable to me and that I can offord,	to minimize my wa	na ganerah	on the scient me be		
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APPENDIX E

TANK CERTIFICATE OF DESTRUCTION

CERTIFICATE OF DESTRUCTION COMPANY NAME HAS/HAVE BEEN SCRAPPED, CRUSHED, AND TOTALLY DESTROYED ON: DATE

Adams Steel 3200 E. Frontera Street Anaheim, California 92806 (714) 630-6523 FAX (714) 630-5836

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A		UNIFORM HAZARDOUS WASTE MANIFEST			2 011	is not required by Federal law
	-	3 Generator's Name and Mailing Address	<u> </u>			97245648
		THRIFTY OIL COMPANY	. C1 00370	7.7.4		
1-800-852-7550		4 Generator's Phone (562 923-9276	Y, GA 90240			A STATE OF THE STA
852-		5 Transporter I Company News	8 US EIN ID Number	0.77		
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THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CAUEORNIA, CALL 1-800-852 7550		UNIFORM HAZARDOUS WASTE MANIFEST 3 Generator's Name and Moding Address "FIRIFTY OIL COMPANY 10000 LAKEMOOD BLVD.; DOWNEY, CA 9024(1 4 Generator's Prene 1562 + 923-9276 5. Transporter 1 Company Name KERN SHVIPONNENTAL SERVICE C A D 9 C 2 0 3 0 7. Transporter 2 Company Name 8. US EPA ID Number 9. Designated Facility Name and Site Address D/K ENVIRONNENTAL			is not required by Federal law				
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		If I am a large quantity generator, I certify that I have a program in place to reduce the volume and loxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and luture threat to human health and the environment; OR, If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
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11	Contractor: K.E. Curtia Construction Co. In 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and regulation to confirm the contents of the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of this consignment are confirmed to confirm the contents of the contents of this consignment are confirmed to confirm the contents of the contents of this consignment are confirmed to confirm the confirmed to confirm the contents of the contents of the contents of the confirmed to confirm the contents of the c								
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APPENDIX F PROCEDURES FOR SOIL SAMPLING

Standard Operating Procedures For Soil Sampling

The following section describes field techniques that were performed by PEG personnel in the performance of the tasks involved with this project.

1.0 UST Basin Soil Sampling Protocol

Soil sampling was performed under the direction of the appropriate agency representative. PEG attempted to collect undisturbed soil samples whenever possible. PEG utilized two methods when collecting UST basin soil samples. The first method was to collect the soil sample from the excavator bucket. Under the direction of the agency representative, the operator lowered the excavator bucket into the excavation bottom or sidewall, retrieved a full bucket of soil, and placed the bucket near the PEG geologist. Loose soil was removed so that undisturbed soil remained in the bucket. The PEG geologist pushed the open end of a pre-cleaned sample jar into the soil in several locations until the jar was packed tight. The jar was then sealed with a Teflon-lined cap, labeled, and stored in a chilled cooler for transport to the laboratory. The PEG geologist wore latex gloves while collecting the soil samples, and the gloves were changed between samples to reduce the potential for cross contamination between samples.

The second method of collecting UST basin samples consisted of using a hand auger to collect the soil samples. This method was used when the excavator could not reach the desired sample location. The hand auger was drilled to the desired depth, retrieved from the hole, and a pre-cleaned sample jar was pushed into the auger until the jar was packed tight. The jar was then sealed with a Teflon-lined cap, labeled, and stored in a chilled cooler for transport to the laboratory. The hand auger was washed in soap solution and double rinsed with tap and purified water between each sample to reduce the potential for cross contamination between samples.

2.0 Dispenser and Product Piping Soil Sampling Protocol

Soil sampling was performed under the direction of the appropriate agency representative. PEG attempted to collect undisturbed soil samples whenever possible. PEG collected the soil samples for the dispensers and product piping from the backhoe bucket. Under the direction of the agency representative, the operator lowered the

backhoe bucket into the excavation bottom, retrieved a full bucket of soil, and placed the bucket near the PEG geologist. Loose soil was removed so that undisturbed soil remained in the bucket. The PEG geologist pushed the open end of a pre-cleaned sample jar into the soil in several locations until the jar was packed tight. The jar was then sealed with a Teflon-lined cap, labeled, and stored in a chilled cooler for transport to the laboratory. The PEG geologist wore latex gloves while collecting the soil samples, and the gloves were changed between samples to reduce the potential for cross contamination between samples.

3.0 Stockpile Soil Sampling Protocol

Soil stockpile samples were collected at the rate of one sample for approximately 30 to 50 cubic yards of soil excavated. The soil samples were collected in pre-cleaned glass sample jars. After selecting the sample locations, the PEG geologist dug into the soil stockpile approximately one foot, then pushed the open end of a sample jar into the hole until the jar was packed tight with soil. The jar was then sealed with a Teflon-lined cap, labeled, and stored in a chilled cooler for transport to the laboratory. The PEG geologist wore latex gloves while collecting the soil samples, and the gloves were changed between samples to reduce the potential for cross contamination between samples.

4.0 Soil Sample Analyses

The soil samples collected from the UST basin, dispensers, and product piping were analyzed for constituents mandated by the regulatory agency. These analytical methods are listed in Table 1. Soil samples collected from the soil stockpiles were analyzed for total petroleum hydrocarbons as gasoline or diesel by EPA Method 8015 Modified; benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020; and methyl tert-butyl ether (MtBE) by EPA Method 8020 Modified. Selected soil samples were analyzed for total lead by EPA Method 6010A.

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