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11:40 am, Sep 15, 2010

Alameda County  
Environmental Health

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,

A handwritten signature in black ink, appearing to read "Steven L. Green". The signature is fluid and cursive, with a large initial "S" and "G".

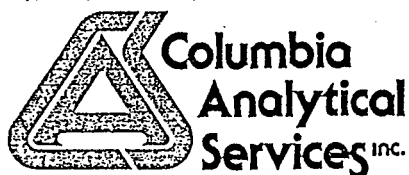
Steven L. Green  
Project Chemist

COLUMBIA ANALYTICAL SERVICES, Inc.

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)

FEB 09 1998



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,

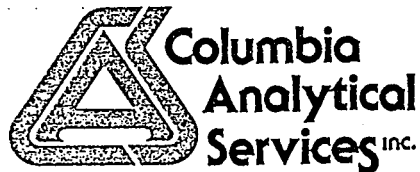
A handwritten signature in black ink, appearing to read "Steven L. Green", is written over a large, stylized, light-colored scribble.

Steven L. Green  
Project Chemist

COLUMBIA ANALYTICAL SERVICES, Inc.

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LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
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MBAS	Methylene Blue Active Substances
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TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLc	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)



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.

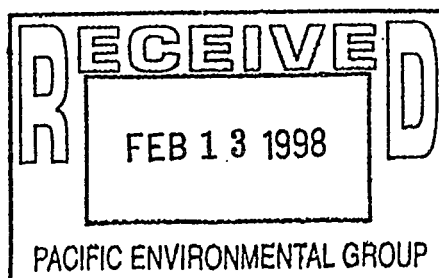
Sincerely,

A handwritten signature in black ink, appearing to read "S. L. Green", written over a white background.

Steven L. Green  
Project Chemist

A handwritten signature in black ink, appearing to read "Bernadette J. Cox for", written over a white background.

Greg Anderson  
Regional QA Coordinator



COLUMBIA ANALYTICAL SERVICES, Inc.

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A2LA	American Association for Laboratory Accreditation
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TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLIC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Pacific Environmental Group  
Project: Thrifty Oil Co. #63/331-008.1B  
Sample Matrix: Soil

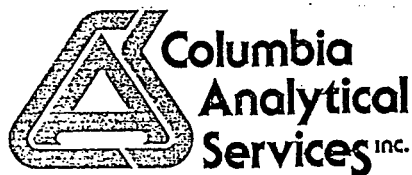
Service Request: S9800268  
Date Collected: 2/10/98  
Date Received: 2/10/98

Total Metals  
Lead

Prep Method: EPA 3050BM  
Analysis Method: 6010A  
Test Notes:

Units: mg/Kg (ppm)  
Basis: Wet

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.: S9800363

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.

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Steven L. Green  
Project Chemist

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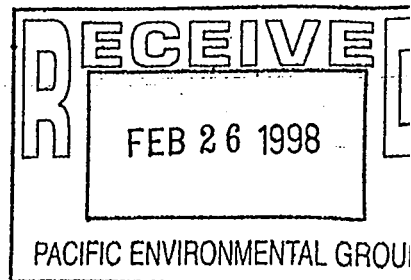
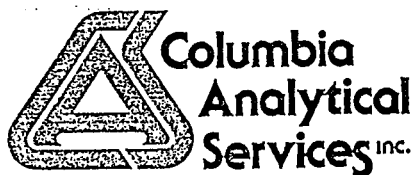
Greg Anderson  
Regional QA Coordinator



COLUMBIA ANALYTICAL SERVICES, Inc.

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VOA	Volatile Organic Analyte(s)



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

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Steven L. Green  
Project Chemist

A handwritten signature in black ink, appearing to read "Greg Anderson". The signature is cursive and somewhat stylized, with a long, sweeping tail on the final letter.

Greg Anderson  
Regional QA Coordinator

COLUMBIA ANALYTICAL SERVICES, Inc.

Acronyms

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TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	2/23/98	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	2/3/98	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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 (#1)-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	2/3/98	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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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 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)  
 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	2/3/98	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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

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	



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical 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

BTEX, MTBE and TPH as Gasoline

Sample Name: Method Blank  
 Lab Code: S980210-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	2/10/98	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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: S980223-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	2/23/98	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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: 8020 CA/LUFT

Units: PERCENT  
 Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery	
			4-Bromofluorobenzene	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

COLUMBIA ANALYTICAL SERVICES, INC.

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 Recovery	
			4-Bromofluorobenzene	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

COLUMBIA ANALYTICAL SERVICES, INC.

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 CA/LUFT

Units: PERCENT  
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery	
			4-Bromofluorobenzene	a,a,a-Trifluorotoluene
UST-10	S9800268-002		91	97
Method Blank	S980210-SB1		97	89

CAS Acceptance Limits: 51-137 51-137

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC 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  
 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 Recovery	
			4-Bromofluorobenzene	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	105
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

COLUMBIA ANALYTICAL SERVICES, INC.

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  
 Test Notes:

Units: mg/Kg (ppm)  
 Basis: Wet

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

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  
 Lab Code: ICV1  
 Test Notes:

Units: mg/Kg (ppm)  
 Basis: Wet

ICV Source:

Analyte	Prep Method	Analysis Method	True Value	Result	CAS Percent Recovery		Result Notes
					Acceptance Limits	Percent Recovery	
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 <i>tert</i> -Butyl Ether	EPA 5030	8020	2.5	2.5	85-115	100	



COLUMBIA ANALYTICAL SERVICES, INC.

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  
 Lab Code: SS-19-001MS, SS-19-001DMS  
 Test Notes:

Units: mg/Kg (ppm)  
 Basis: Wet

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

COLUMBIA ANALYTICAL SERVICES, INC.

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 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 Recovery	
			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

COLUMBIA ANALYTICAL SERVICES, INC.

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: S980223-LCS  
 Test Notes:

Units: mg/Kg (ppm)  
 Basis: Wet

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: ARCO Products Company  
 Project: Thrifty Oil Station 63/TO#21792.00/331-008.1B

Service Request: S9800362  
 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: ICVI Basis: Wet  
 Test Notes:

ICV Source:

Analyte	Prep Method	Analysis Method	True Value	Result	CAS Percent Recovery		Result Notes
					Acceptance Limits	Percent Recovery	
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 <i>tert</i> -Butyl Ether	EPA 5030	8020	2.5	2.4	85-115	96	

1100A, F

180 43

Thrifty Oil Company, 10,000 Laburnum Blvd, Downey  
Chain of Custody 1 of 1

Pacific Environmental Group, Inc.  
2025 Gateway Place #440, San Jose CA 95110  
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 331-008.1B

Facility No. 63

Facility Address: 6125 Telegraph Ave, Oakland

Billing Reference Number:

CLIENT engineer: Chris Panatesca

PACIFIC Point of Contact: Doug Andrews

Sampler: Doug Andrews

Laboratory Name: Columbia AS

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Comments:	
															W=water	G=grab
T-1 (8')	1	2" X 4"	NP	S	G	2-4-98		X								
T-2 (8')	↓	↓	↓	↓	↓	↓		↓								
T-3 (8')	↓	↓	↓	↓	↓	↓		↓								
T-4 (8')	↓	↓	↓	↓	↓	↓		↓								

Condition of Sample:

Temperature Received:

Mail original Analytical Report to:

Turnaround Time:

Relinquished by: *Doug Andrews* Date: 2-5-98 Time: 9:45

Received by: *Doug Andrews* Date: 2/5/98 Time: 9:45

Pacific Environmental Group

2025 Gateway Place #440 San Jose, CA 95110

Priority Rush (1 day)

Relinquished by: Date: Time: Received by: Date: Time:

620 Contra Costa Blvd. #209 Pleasant Hill, CA 94523

Rush (2 days)

Relinquished by: Date: Time: Received by: Date: Time:

25725 Jeronimo Rd. #576C Mission Viejo, CA 92622

Expedited (5 days)

Relinquished by: Date: Time: Received by laboratory: Date: Time:

4020 148th Ave NE #B Redmond, WA 98052

Standard (10 days)

As Contracted

TPH VOA, GEN CHEM, FIDC

Thrifty Oil Co, 10,000 Lakewood Dr, Downey CA

Chain of Custody  
59800268

Pacific Environmental Group, Inc.  
2025 Gateway Place #440, San Jose CA 95110  
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 331-008.1B

Facility No. 63 Facility Address: 6125 Telegraph Ave Oakland  
CLIENT engineer: Chris Parnatzen PACIFIC Point of Contact: Doug Anderson Sampler: FERRIS POIR Laboratory Name: Columbia

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv. Matrix	Type	Sampling Date	Sampling Time	BTEX VPHgas (8015/8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/8240)	SVOC (EPA 627/8270)	HVOC (EPA 601/8010)	Total Pb	Comments:
T-1	3	10ml	ACC W	U	2-10-98	13:45	X								
UST-10	1	200	UP S	S	2/10/98	13:50	X							X	

Condition of Sample:				Temperature Received:				Mail original Analytical Report to:				Turnaround Time:			
Relinquished by:				Date: 2-10-98 Time: 15:00				Received by:				Date: 2/10/98 Time: 15:20			
Relinquished by:				Date:				Received by:				Date:			
Relinquished by:				Date:				Received by:				Date:			
Relinquished by:				Date:				Received by laboratory:				Date:			

Pacific Environmental Group  
2025 Gateway Place #440 San Jose, CA 95110   
620 Contra Costa Blvd. #209 Pleasant Hill, CA 94523   
25725 Jeronimo Rd. #576C Mission Viejo, CA 92622   
4020 148th Ave NE #B Redmond, WA 98052

Priority Rush (1 day)   
Rush (2 days)   
Expedited (5 days)   
Standard (10 days)   
As Contracted

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

SERVICE REQUEST NO. 59800363 P.O.# \_\_\_\_\_ PAGE 1 OF 1

PROJECT NAME Thriftly Str 63 # 331-008.1B  
 PROJECT MGR. Douglas Andrews  
 COMPANY Pacific Environmental Group  
 ADDRESS 2025 Gateway Pl Suite 440  
San Jose PHONE 441-7500  
 FAX 441-7537  
 SAMPLER'S SIGNATURE [Signature]

**ANALYSIS REQUESTED**

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	ANALYSIS REQUESTED														REMARKS						
						PRESERVATIVE	HCl	HCl	HCl	NP	NP	NP	HCl	HCl	HNO <sub>3</sub>	NP	H <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>		NaOH					
P-1 (3')	2-23-98		1	Soil	1	<input checked="" type="checkbox"/>																				
P-2 (3')			2																							
P-3 (3')			3																							
P-4 (3')			4																							
P-5 (3')			5																							
P-6 (3')	2/23/98		6	soil	1		<input checked="" type="checkbox"/>																			

RELINQUISHED BY:  
 Signature [Signature]  
 Printed Name Douglas Andrews  
 Firm Pacific  
 Date/Time 2-23-98/12:30pm

RECEIVED BY:  
 Signature [Signature]  
 Printed Name Kay Lovelace  
 Firm AS  
 Date/Time 2/23/98 1230

RELINQUISHED BY:  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date/Time \_\_\_\_\_

RECEIVED BY:  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date/Time \_\_\_\_\_

TURNAROUND REQUIREMENTS  
 1 day \_\_\_ 2 day \_\_\_ 3 day \_\_\_  
 \_\_\_ 5 day \_\_\_ Other \_\_\_  
 Standard (10 working days)  
 Results Due 2/24/98

REPORT REQUIREMENTS  
 I. Routine Report  
 \_\_\_ II. Report (includes MS, MSD, as required, may be charged as samples)  
 \_\_\_ III. Data Validation Report (includes All Raw Data)  
 \_\_\_ MDLs/PQLs/Trace #  
 \_\_\_ Electronic Data Deliverables

RELINQUISHED BY:  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date/Time \_\_\_\_\_  
 Shipped Via/Tracking # \_\_\_\_\_

RECEIVED BY:  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date/Time \_\_\_\_\_

SAMPLE RECEIPT: Condition \_\_\_\_\_ Custody Seals \_\_\_\_\_  
 SPECIAL INSTRUCTIONS/COMMENTS:  
 Circle which metals are to be analyzed:  
 Metals: Al Sb Ba Be B Cd Ca Cr Co Cu Fe Mg Mn Mo Ni K Ag Na Sn V Zn  
 As Pb Se Ti Hg

Storage: R11/D3

1/11/98 ml in F

9910-022

Thrifty Oil Company / 10,000 Lakewood Ave, Downey CA

Pacific Environmental Group, Inc.  
2025 Gateway Place #440, San Jose CA 95110  
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 331-008.13

Chain of Custody

1 of 2

Facility No. 63 Facility Address: 6125 Telegraph Ave, Oakland Billing Reference Number:  
CLIENT engineer: Chris Pomeatescu PACIFIC Point of Contact: Doug Andrews Sampler: Doug Andrews Laboratory Name: Columbia D.S.

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Total Pb	Comments:
SS-1	1	2" x 4"	NP	S	G	2/3/98		X								
SS-2																
SS-3																
SS-4																
SS-5																
SS-6																
SS-7																
SS-8															X	
SS-9																
SS-10																

Condition of Sample: Temperature Received: Mail original Analytical Report to: Pacific Environmental Group Turnaround Time:

Relinquished by <i>Doug Andrews</i>	Date 2-3-98	Time 1123	Received by	Date	Time	2025 Gateway Place #440 San Jose, CA 95110	<input checked="" type="checkbox"/>	Priority Rush (1 day) <b>ASAP</b>	<input checked="" type="checkbox"/>
Relinquished by	Date	Time	Received by	Date	Time	620 Contra Costa Blvd. #209 Pleasant Hill, CA 94523	<input type="checkbox"/>	Rush (2 days)	<input type="checkbox"/>
Relinquished by	Date	Time	Received by	Date	Time	25725 Jeronimo Rd. #576C Mission Viejo, CA 92622	<input type="checkbox"/>	Expedited (5 days)	<input type="checkbox"/>
Relinquished by	Date	Time	Received by laboratory <i>Ving Louder CAS</i>	Date 2/3/98	Time 1723	4020 148th Ave NE #B Redmond, WA 98052	<input type="checkbox"/>	Standard (10 days)	<input type="checkbox"/>
								As Contracted	<input type="checkbox"/>



59800228

Thrifty Oil Co

Chain of Custody

202

Pacific Environmental Group, Inc.

2025 Gateway Place #440, San Jose CA 95110

Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 331-008.1B

Facility No. 63

Facility Address: 6125 Telegraph Ave, Oakland

Billing Reference Number:

CLIENT engineer: Chris Pemeatescu

PACIFIC Point of Contact: Doug Andrews

Sampler: Doug Andrews

Laboratory Name: O&S

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	W-water	G-grab	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Dislvd. Metals	Total VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Total Pb	Comments:
				S-soll	D-disc.											
SS-11	1	2'x4"	NP	S	G	2/3/98		X								
SS-12	↓	↓	↓	↓	↓	↓	↓	↓								
SS-13	↓	↓	↓	↓	↓	↓	↓	↓								
SS-14	↓	↓	↓	↓	↓	↓	↓	↓								
SS-15	↓	↓	↓	↓	↓	↓	↓	↓							X	
SS-16	↓	↓	↓	↓	↓	↓	↓	↓								
SS-17	↓	↓	↓	↓	↓	↓	↓	↓								

Condition of Sample:

Temperature Received:

Mail original Analytical Report to:

Turnaround Time:

Relinquished by <i>Doug Andrews</i>	Date 2-3-98	Time 1723	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by laboratory	Date	Time

Pacific Environmental Group

2025 Gateway Place #440  
San Jose, CA 95110

620 Contra Costa Blvd. #209  
Pleasant Hill, CA 94523

25725 Jeronimo Rd. #576C  
Mission Viejo, CA 92622

4020 148th Ave NE #B  
Redmond, WA 98052

- Priority Rush (1 day)  ASAP
- Rush (2 days)
- Expedited (5 days)
- Standard (10 days)
- As Contracted



TRMWA RC  
EXT F  
M

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

3334 Victor Court • Santa Clara, CA 95054 • (408) 437-2400 • FAX (408) 437-9356

SERVICE REQUEST NO. 59800362 P.O.# \_\_\_\_\_ PAGE 1 OF 1

PROJECT NAME Thrifty Str 63 # 321-008.1B  
 PROJECT MGR. Doug Andrews  
 COMPANY Pacific Environmental Inc  
 ADDRESS 2025 Gateway Pl, Suite 440  
San Jose CA 95110 PHONE 441-7520  
 FAX 441-7539  
 SAMPLER'S SIGNATURE \_\_\_\_\_

NUMBER OF CONTAINERS	ANALYSIS REQUESTED														REMARKS	
	PRESERVATIVE	HCl	HCl	HCl	NP	NP	NP	HCl	HCl	HNO <sub>3</sub>	NP	H <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>		NaOH
	Volatiles Organics GC/MS 624/8240/8260	Halogenated or Aromatic Volatiles 601/8010 □ 602/8020 □	TPH as Gas/BTEX DHS LUFT / 8020	TPH as Diesel/HBHC DHS LUFT	Base/Neu/Acid Organics GC/MS 625/8270	Pesticides / PCBs 608/8080	TRPH - 418.1	Oil and Grease Method	Metals (total or dissolved) List Below	pH, Cond, Cl, SO <sub>4</sub> , F, TDS, TSS Alk, NO <sub>3</sub> , NO <sub>2</sub> (circle)	NH <sub>3</sub> -N, COD, Total-P, TKN, NO <sub>3</sub> / NO <sub>2</sub> (circle)	Total Organic Carbon TOC	Total Phenols	Cyanide	Total Pb *	
			X													Total Pb on SS-19 only
																* Pb > 50ppm
																run STLCLM.
																JM

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX
SS-19	2-23-98		1	Soil
SS-20	↓		2	↓
SS-21	↓		3	↓
SS-22	↓		4	↓
SS-23	↓		5	↓

RELINQUISHED BY:  
Doug Andrews  
 Signature  
Douglas Andrews  
 Printed Name  
Pacific  
 Firm  
 Date/Time 2-23-98 / 12:30pm

RECEIVED BY:  
Kay Lovelace  
 Signature  
KAY LOVELACE  
 Printed Name  
PAS  
 Firm  
2/23/98 1230  
 Date/Time

RELINQUISHED BY:  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date/Time \_\_\_\_\_

RECEIVED BY:  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date/Time \_\_\_\_\_

TURNAROUND REQUIREMENTS  
 1 day  2 day  3 day  
 5 day  Other  
 Standard (10 working days)  
 Results Due 2/24/98

REPORT REQUIREMENTS  
 I. Routine Report  
 II. Report (includes MS. MSD, as required, may be charged as samples)  
 III. Data Validation Report (includes All Raw Data)  
 MDLs/PQLs/Trace #  
 Electronic Data Deliverables

RELINQUISHED BY:  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date/Time \_\_\_\_\_  
 Shipped Via/Tracking # \_\_\_\_\_

RECEIVED BY:  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date/Time \_\_\_\_\_

SAMPLE RECEIPT: Condition \_\_\_\_\_ Custody Seals \_\_\_\_\_  
 SPECIAL INSTRUCTIONS/COMMENTS:  
 Circle which metals are to be analyzed:  
 Metals: Al Sb Ba Be B Cd Ca Cr Co Cu Fe Mg Mn Mo Ni K Ag Na Sn V Zn  
 As Pb Se Tl Hg  
 Storage: R11/03

ATTACHMENT B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION -  
GROUNDWATER SAMPLES

COLUMBIA ANALYTICAL SERVICES, INC.

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 <i>tert</i> -Butyl Ether	EPA 5030	8020	3	100	NA	2/6/98	8400	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Pacific Environmental Group  
 Project: Thrifty Oil Co. #63/331-008.1B  
 Sample Matrix: Water

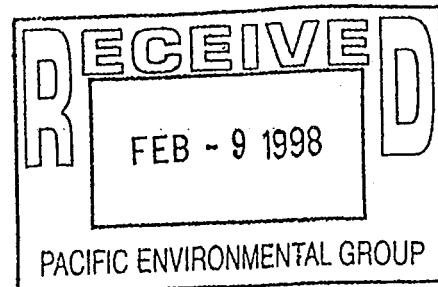
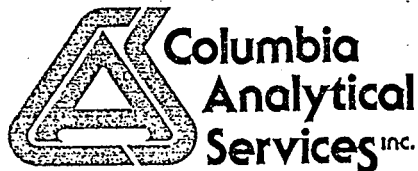
Service Request: S9800268  
 Date Collected: 2/10/98  
 Date Received: 2/10/98

BTEX, MTBE and TPH as Gasoline

Sample Name: T-1  
 Lab Code: S9800268-001  
 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	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	
Xylenes, Total	EPA 5030	8020	1	200	NA	2/10/98	27000	
Methyl <i>tert</i> -Butyl Ether	EPA 5030	8020	3	200	NA	2/10/98	3800	



February 6, 1998

Service Request No.: S9800242

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,

A handwritten signature in black ink, appearing to read "S. L. Green", written over a large, stylized flourish.

Steven L. Green  
Project Chemist

COLUMBIA ANALYTICAL SERVICES, Inc.

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)

COLUMBIA ANALYTICAL SERVICES, INC.

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	
Xylenes, Total	EPA 5030	8020	1	1	NA	2/10/98	ND	
Methyl <i>tert</i> -Butyl Ether	EPA 5030	8020	3	1	NA	2/10/98	ND	



COLUMBIA ANALYTICAL SERVICES, INC.

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	
Ethylbenzene	EPA 5030	8020	0.5	1	NA	2/6/98	ND	
Xylenes, Total	EPA 5030	8020	0.5	1	NA	2/6/98	ND	
Methyl <i>tert</i> -Butyl Ether	EPA 5030	8020	3	1	NA	2/6/98	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

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  
Analysis Method: 8020 CA/LUFT

Units: PERCENT  
Basis: NA

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

CAS Acceptance Limits: 69-116 69-116

COLUMBIA ANALYTICAL SERVICES, INC.

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: EPA 5030  
Analysis Method: 8020 CA/LUFT

Units: PERCENT  
Basis: NA

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

CAS Acceptance Limits: 69-116 69-116

Thrifty Oil Co, 10,000 Lakewood Dr, Downey CA

Pacific Environmental Group, Inc.  
2025 Gateway Place #440, San Jose CA 95110  
Phone 408 441 7790 Fax 408 441 7539

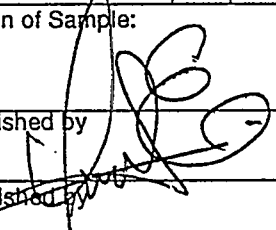
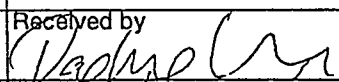
PROJECT No. 331-008.1B

Chain of Custody  
59800268

Facility No. 63 Facility Address: 6125 Telegraph Ave Oakland Billing Reference Number: 21792-00

CLIENT engineer: Chris Pameatoscu PACIFIC Point of Contact: Doug Anderson Sampler: K EDRS Poirer Laboratory Name: Columbia

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Dislvd. Metals	Total	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Total Pb	Comments:	
																		W=water
T-1	3	10ml	ACC	W	G	2-10-98	13:45											
UST-10	1	200	UP	S	G	2/10/98	13:50											

Condition of Sample:				Temperature Received:				Mail original Analytical Report to: Pacific Environmental Group				Turnaround Time:					
Relinquished by: 				Date: 2-10-98		Time: 15:00		Received by: 				Date: 2/10/98		Time: 15:20		Priority Rush (1 day) <input checked="" type="checkbox"/>	
Relinquished by:				Date:		Time:		Received by:				Date:		Time:		Rush (2 days) <input type="checkbox"/>	
Relinquished by:				Date:		Time:		Received by:				Date:		Time:		Expedited (5 days) <input type="checkbox"/>	
Relinquished by:				Date:		Time:		Received by:				Date:		Time:		Standard (10 days) <input type="checkbox"/>	
Relinquished by:				Date:		Time:		Received by laboratory:				Date:		Time:		As Contracted <input type="checkbox"/>	



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	SiteAddress	SiteCity	State	ZipCode
A04 -- 00249 Thrifty Oil/#63	6125 Telegraph Ave.	Oakland	CA	94110

Load #	Date & Time Cut	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
2	02/11/98 08:35	4DENBES		91,760M	30,380M	61,320	30.66 ✓
1	02/11/98 08:40	4DENBES		76,860M	34,120M	42,740	21.37 ✓
3	02/11/98 08:46	4DENBES		100,940M	33,740M	67,200	33.60 ✓
11	02/11/98 09:26	4DENBES		105,780M	26,880M	78,900	39.45 ✓
4	02/11/98 09:33	4DENBES		84,620M	34,120M	50,500	25.25 ✓
5	02/11/98 10:26	4DENBES		93,740M	33,740M	60,000	30.00 ✓
10	02/11/98 11:42	4DENBES		80,660M	34,120M	46,540	23.27 ✓
9	02/11/98 12:08	4DENBES		93,960M	33,740M	60,220	30.11 ✓
6	02/11/98 13:17	4DENBES		81,240M	34,120M	47,120	23.56 ✓
8	02/11/98 13:50	4DENBES		96,580M	33,740M	62,840	31.42 ✓
8	02/11/98 13:50	4DENBES		79,140M	34,120M	45,020	22.51 ✓
7	02/11/98 14:31	4DENBES		95,760M	33,740M	62,020	31.01 ✓
12	02/11/98 15:29	4DENBES		98,280M	33,740M	64,540	32.27 ✓
13	02/12/98 08:05	4DENBES		95,780M	26,880M	68,900	34.45 ✓
14	02/12/98 09:35	4DENBES		95,740M	32,760M	62,980	31.49 ✓
15	02/12/98 10:00	4DENBES		94,160M	26,880M	67,280	33.64 ✓
16	02/12/98 11:52	4DENBES		102,060M	32,760M	69,300	34.65 ✓
19	02/12/98 11:57	4DENBES		108,780M	26,880M	81,900	40.95 ✓
20	02/12/98 14:20	4DENBES		99,840M	32,760M	67,080	33.54 ✓
21	02/12/98 14:40	4DENBES		109,700M	26,880M	82,820	41.41 ✓
22	02/13/98 10:46	4DENBES		104,180M	32,280M	71,900	35.95 ✓
25	02/13/98 11:19	4DENBES		107,340M	26,880M	80,460	40.23 ✓
24	02/13/98 13:02	4DENBES		108,780M	32,280M	76,500	38.25 ✓
23	02/13/98 13:25	4DENBES		113,640M	32,280M	81,360	40.68 ✓
26	02/13/98 15:12	4DENBES					

Completed Loads  
30.00%

Manifests Received  
24

Completed Weight  
389.90%

Estimated Weight  
200.00(tons)

TOTAL Net Wt:  
779.72(tons)

TPS Technologies, Inc.

## Customer Job Report

Gross &amp; Tare Weight Codes: M=Manual; S=Scale; T=Trk File

Job Number Name	SiteAddress	SiteCity	State	ZipCode
A04 -- 00249 Thrifty Oil/#63	6125 Telegraph Ave.	Oakland	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

Completed Loads	Manifests Received	Completed Weight	Estimated Weight	TOTAL Net Wt:
75.60%	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

Job Number Name	SiteAddress	SiteCity	State	ZipCode
A04 -- 00249 Thrifty Oil/#63	6125 Telegraph Ave.	Oaklandd	CA	94110

Load #	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
42	03/10/98 10:01	4DENBES		76,780M	31,860M	44,920	22.46 ✓
43	03/10/98 13:06	4DENBES		56,600M	31,860M	24,740	12.37 ✓

Completed Loads	Manifests Received	Completed Weight	Estimated Weight	TOTAL Net Wt:
79.10%	34	504.60%	200.00(tons)	34.83 (tons)

ATTACHMENT D

UNIFORM HAZARDOUS WASTE MANIFEST

972 45633 IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No C1110101113710113 01 01 01	Manifest Document No	2. Page 1	Information in the shaded areas is not required by Federal law
3. Generator's Name and Mailing Address THIRTY OIL COMPANY 10000 LAKEWOOD BLVD.; DOWNEY, CA 90240			A. State Manifest Document No 37245633		
4. Generator's Phone (562) 923-9876			B. State Generator ID		
5. Transporter 1 Company Name ADAMS SERVICES, INC.		6. US EPA ID Number 10110101113710113 01 01 01		C. State Transporter ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address DeMENNO/KERDOON 2000 N. ALAMEDA ST. COXINGTON, CA 90222			E. State Transporter's ID		
10. US EPA ID Number			F. Transporter's Phone		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	
		No. Type		14. Unit Wt/Vol	
a. (OIL & WATER) NON-R.C.P.A. HAZARDOUS WASTE LIQUID		01 01 1 T T		XX 100 G	
b.					
c.					
d.					
15. Special Handling Instructions and Additional Information DON PROPER PROTECTIVE GEAR NO SMOKING: E.R.G. #27 EMERGENCY #: _____ Contractor: T.H. Curtis Construction Co., Inc.			K. Handling Code for Waste a. 01 c.		
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, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity 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 future 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.					
Printed/Typed Name		Signature		Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year	
SOPHAL P. SVAY				0121016915	

DO NOT WRITE BELOW THIS LINE.

APPENDIX E

TANK CERTIFICATE OF DESTRUCTION

CERTIFICATE OF  
DESTRUCTION

COMPANY NAME Arco

ADDRESS 6125 Telegraph Ave.  
Oakland

ADAMS STEEL CERTIFIES THAT 110K fiberglass  
coated

HAS/HAVE BEEN SCRAPPED, CRUSHED AND TOTALLY  
DESTROYED ON: 2-5-98

SIGNATURE Cheryl Hartman

TITLE Weighmaster

DATE 2-5-98

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. 01A112010118769310101013

3. Generator's Name and Mailing Address  
THRIFTY OIL COMPANY  
10000 LAKEWOOD BLVD.; DOWNEY, CA 90240

97245648

4. Generator's Phone (562) 923-9976

5. Transporter 1 Company Name  
SUS TRANSPORTATION INC

97245648

7. Transporter 2 Company Name

9. Designated Facility Name and Site Address  
D/K ENVIRONMENTAL  
3650 E. 26th STREET  
VERBON, CA 90022

97245648

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

a.	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste Number
NON-RCRA HAZARDOUS WASTE SOLID WASTE EMPTY STORAGE TANK	1	T	1	P	97245648
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above  
PROFILE #280109-27  
H 8168471

K. Handling Codes for Wastes Listed Above  
99

15. Special Handling Instructions and Additional Information  
WEAR APPROPRIATE PERSONAL  
PROTECTIVE CLOTHING

Site: ARCO #9542  
6125 Telegraph Ave.; Oakland, C  
Contractor: F.E. Curtis Construction Co., Inc

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, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity 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 future 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.

Printed/Typed Name Signature Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name Signature Month Day Year  
GARY BOYANT Gary Boyant 6/24/97

18. Transporter 2 Acknowledgement of Receipt of Materials  
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  
Printed/Typed Name Signature Month Day Year  
R. B. HILL / ANGELES 6/24/97

DO NOT WRITE BELOW THIS LINE.

97245648  
IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550  
GENERATOR  
FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's ID (EPA ID No.) 2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address  
THRIFTY OIL COMPANY  
10000 LAKEWOOD BLVD.; DOWNEY, CA 90240

4. Generator's Phone (562) 923-9276  
5. Transporter 1 Company Name  
KERN ENVIRONMENTAL SERVICE  
6. US EPA ID Number  
C A D 9 E 2 0 3 0 1 7 3

7. Transporter 2 Company Name  
8. US EPA ID Number  
9. Designated Facility Name and Site Address  
D/K ENVIRONMENTAL  
3650 E. 26th STREET  
VERNON, CA 90023  
10. US EPA ID Number  
C A T O R 0 0 3 3 6 E 1

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. NON-RCRA HAZARDOUS WASTE SOLID WASTE EMPTY STORAGE TANK	001	T	13000	P
b.				
c.				
d.				

J. Additional Description for Materials Listed Above  
PROFILE #280109-27  
K. Handling Codes for Wastes Listed Above  
9.9

15. Special Handling Instructions and Additional Information  
WEAR APPROPRIATE PERSONAL PROTECTIVE CLOTHING  
Site: ARCO #9542  
6125 Telegraph Ave.: Oakland, C  
Contractor: K.E. Curtis Construction Co., Inc

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, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity 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 future 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.

Printed/Typed Name Signature Month Day Year

17. Transporter 1 Acknowledgment of Receipt of Materials  
Printed/Typed Name Signature Month Day Year

18. Transporter 2 Acknowledgment of Receipt of Materials  
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19  
Printed/Typed Name Signature Month Day Year

Printed/Typed Name Signature Month Day Year  
RAGHEL I. ANBELES

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

972 972 972





COLUMBIA ANALYTICAL SERVICES, INC.

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-4(8)  
 Lab Code: S9800243-004  
 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	2/6/98	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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	C1
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

C1 The MRL was elevated due to high analyte concentration requiring sample dilution.

COLUMBIA ANALYTICAL SERVICES, INC.

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-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
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

C1

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

COLUMBIA ANALYTICAL SERVICES, INC.

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-2(3)  
 Lab Code: S9800363-002  
 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	100	2/23/98	2/24/98	1200	
Benzene	EPA 5030	8020	0.005	100	2/23/98	2/24/98	1.7	
Toluene	EPA 5030	8020	0.005	100	2/23/98	2/24/98	24	
Ethylbenzene	EPA 5030	8020	0.005	100	2/23/98	2/24/98	21	
Xylenes, Total	EPA 5030	8020	0.005	100	2/23/98	2/24/98	96	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	100	2/23/98	2/24/98	15	

COLUMBIA ANALYTICAL SERVICES, INC.

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: S9800363-003  
 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	2/23/98	2/24/98	<5	C1
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	

C1

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

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 Lab Code: S9800363-005  
 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	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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-6(3)  
 Lab Code: S9800363-006  
 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	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

C1

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



COLUMBIA ANALYTICAL SERVICES, INC.

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  
 Lab Code: S9800228-001  
 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	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

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-2  
 Lab Code: S9800228-002  
 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	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	2/3/98	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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-4  
 Lab Code: S9800228-004  
 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	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

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  
 Lab Code: S9800228-005  
 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	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	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	1	2/3/98	2/4/98	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

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	
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	



COLUMBIA ANALYTICAL SERVICES, INC.

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-9  
 Lab Code: S9800228-009  
 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	0.006	
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	0.017	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	1	2/3/98	2/4/98	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

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-11  
 Lab Code: S9800228-011  
 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	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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-16  
 Lab Code: S9800228-016  
 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	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	



COLUMBIA ANALYTICAL SERVICES, INC.

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)  
 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	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	

**COLUMBIA ANALYTICAL SERVICES, INC.**

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  
 Lab Code: S9800362-001  
 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	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	
Ethylbenzene	EPA 5030	8020	0.005	2.5	2/23/98	2/23/98	0.1	
Xylenes, Total	EPA 5030	8020	0.005	2.5	2/23/98	2/23/98	0.42	
Methyl-tert-butyl ether	EPA 5030	8020	0.05	2.5	2/23/98	2/23/98	0.45	

COLUMBIA ANALYTICAL SERVICES, INC.

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-20  
 Lab Code: S9800362-002  
 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	2/23/98	2/24/98	270	
Benzene	EPA 5030	8020	0.005	25	2/23/98	2/24/98	<0.12	C1
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

C1

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

COLUMBIA ANALYTICAL SERVICES, INC.

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-21  
 Lab Code: S9800362-003  
 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	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

COLUMBIA ANALYTICAL SERVICES, INC.

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  
 Lab Code: S9800362-004  
 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	2/23/98	2.24/98	240	
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

C1

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

COLUMBIA ANALYTICAL SERVICES, INC.

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-23  
 Lab Code: S9800362-005  
 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	2/23/98	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	

COLUMBIA ANALYTICAL SERVICES, INC.

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

Total Metals  
 Lead

Units: mg/Kg (ppm)  
 Basis: Wet

Prep Method: EPA 3050BM  
 Analysis Method: 6010A  
 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	

COLUMBIA ANALYTICAL SERVICES, INC.

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

Total Metals  
Lead

Prep Method: EPA 3050BM  
Analysis Method: 6010A  
Test Notes:

Units: mg/Kg (ppm)  
Basis: Wet

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