

**RECEIVED** 

11:40 am, Sep 15, 2010

Alameda County Environmental Health

February 4, 1998

Service Request No.: <u>S9800228</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 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,

Stevén 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 Hatrix 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 Analyzed NC Not Calculated

NCASI

National Council of the paper industry for Air and Stream Improvement

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.: <u>S9800243</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 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.

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 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 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

D FFB 1 3 1998

PACIFIC ENVIRONMENTAL GROUP

Greg Anderson

Regional QA Coordinator

Bernadette J. Cox for

Acronyms

American Association for Laboratory Accreditation A2LA

American Society for Testing and Materials ASTM

Biochemical Oxygen Demand BOD

Benzene, Toluene, Ethylbenzene, Xylenes BTEX

California Assessment Metals CAM California Air Resources Board CARB

Chemical Abstract Service registry Number **CAS Number** 

Chlorofluorocarbon **CFC** Colony-Forming Unit CFU Chemical Oxygen Demand COD

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

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

U. S. Environmental Protection Agency **EPA** 

Environmental Laboratory Accreditation Program **ELAP** 

Gas Chromatography GC

Gas Chromatography/Mass Spectrometry GC/MS

Ion Chromatography IC

Initial Calibration Blank sample **ICB** 

Inductively Coupled Plasma atomic emission spectrometry **ICP** 

Initial Calibration Verification sample **ICV** 

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

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

Laboratory Control Sample LCS Leaking Underground Fuel Tank LUFT

Modified M

Methylene Blue Active Substances **MBAS** 

Maximum Contaminant Level. The highest permissible concentration of a MCL

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

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

Matrix Spike MS

Methyl tert-Butyl Ether MTBE

Not Applicable NA Not Analyzed NAN Not Calculated NC

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

National Institute for Occupational Safety and Health NIOSH

Nephelometric Turbidity Units NTU

Parts Per Billion ppb Parts Per Million ppm

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

Relative Percent Difference RPD Selected Ion Monitoring SIM

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

Solubility Threshold Limit Concentration STLC

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

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

Toxicity Characteristic Leaching Procedure **TCLP** 

TDS **Total Dissolved Solids** 

Total Petroleum Hydrocarbons TPH

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

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

Total Recoverable Petroleum Hydrocarbons TRPH

Total Suspended Solids TSS

**Total Threshold Limit Concentration** TTLC

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

- -- 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:

Test Notes:

EPA 3050BM

Analysis Method:

6010A

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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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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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

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MTBE Methyl tert-Butyl Ether

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NC Not Calculated

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TRPH Total Recoverable Petroleum Hydrocarbons

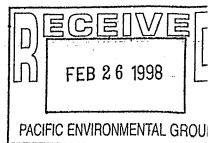
TSS Total Suspended Solids

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.

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

Sincerely,

Steven L. Green

**Project Chemist** 

Greg Anderson

Regional QA Coordinator

Bernadette J. Cox

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American Association for Laboratory Accreditation A2LA

American Society for Testing and Materials **ASTM** 

BOD Biochemical Oxygen Demand

Benzene, Toluene, Ethylbenzene, Xylenes BTEX

California Assessment Metals CAM California Air Resources Board CARB

Chemical Abstract Service registry Number **CAS Number** 

Chlorofluorocarbon CFC CFU Colony-Forming Unit Chemical Oxygen Demand COD

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

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

U. S. Environmental Protection Agency **EPA** 

Environmental Laboratory Accreditation Program **ELAP** 

GÇ Gas Chromatography

Gas Chromatography/Mass Spectrometry GC/MS

Ion Chromatography IC

Initial Calibration Blank sample ICB

Inductively Coupled Plasma atomic emission spectrometry ICP

Initial Calibration Verification sample: **ICV** 

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

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

Laboratory Control Sample LCS Leaking Underground Fuel Tank LUFT

Modified М

Methylene Blue Active Substances **MBAS** 

Maximum Contaminant Level. The highest permissible concentration of a MCL

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

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

Matrix Spike MS

Methyl tert-Butyl Ether MTBE

Not Applicable NA NAN Not Analyzed NC Not Calculated

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

National Institute for Occupational Safety and Health NIOSH

Nephelometric Turbidity Units NTU

Parts Per Billion ppb Parts Per Million ppm

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

**RCRA** 

Relative Percent Difference RPD Selected Ion Monitoring SIM

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Solubility Threshold Limit Concentration STLC

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

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

Toxicity Characteristic Leaching Procedure TCLP

**Total Dissolved Solids** TDS

TPH Total Petroleum Hydrocarbons

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

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

Total Recoverable Petroleum Hydrocarbons TRPH

TSS Total Suspended Solids

Total Threshold Limit Concentration TTLC

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

#### 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	
Tolucne	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: 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)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	i	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	ИD	
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 6125 Telegraph/331-008.1B

Project: 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	7.1
Ethylbenzene	EPA 5030	8020	0.005	1	2/3/98	2/3/98	ND	1
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: 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)

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:

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)

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	. <b>1</b>	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	
•	EPA 5030	8020	0.02	1	2/10/98	2/10/98	ND	,
Xylenes, Total 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:

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	

#### QA/QC Report

Client:

Pacific Environmental Group

Project: Sample Matrix:

Soil

6125 Telegraph/331-008.1B

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

		Test	Percent	Recovery
Sample Name	Lab Code	Notes	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	•	. <b>90</b>	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

#### 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

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-Trifluor

a,a,a-Trifluorotoluene

UST-10 Method Blank S9800268-002 S980210-SB1 91 97 97 89

CAS Acceptance Limits:

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
* *	S9800363-002		99	96
P-2(3')	S9800363-003		108	79
P-3(3')	S9800363-004		98	76
P-4(3')	S9800363-005		94	105
P-5(3')	S9800363-006		103	85
P-6(3')	S980223-LCS		100	84
LCS Method Blank	S980223-ECS S980223-SB1		100	81

CAS Acceptance Limits:

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

Test Notes:

Units: mg/Kg (ppm)

Basis: Wet

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

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

Basis: Wet

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				
	8020	2.5	2.5	85-115	100				
	- 8020	7.5	7.1	85-115	95				
EPA 5030	8020	2.5	2.5	85-115	100				
	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 Method         Analysis         True         Acceptance           Method         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         100			

ICV/032196

#### QA/QC Report

Client:

ARCO Products Company

Project:

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

Sample Matrix:

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

Sample Name:

Lab Code:

BATCH QC

SS-19-001MS,

SS-19-001DMS

Units: mg/Kg (ppm)

Basis: Wet

Test Notes:

Percent Recovery

Analyte	Prep Method	Analysis Method	MRL	Spik MS	e Level DMS	Sample Result	Spike MS	Result DMS	MS	DMS	CAS Acceptance Limits	Relative Percent Difference	Result 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

Sample Matrix: S

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

		Test		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	\$9800362-005		103	85
LCS	S980223-LCS		100	84
Method Blank	S980223-SB1		100	81

CAS Acceptance Limits:

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:

S980223-LCS

Test Notes:

Units: mg/Kg (ppm)

	Prep	Analysis	True		Percent	CAS Percent Recovery Acceptance	· Result
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:

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

ICV1

Units: mg/Kg (ppm)

Basis: Wet

Lab Code: Test Notes:

ICV Source:					CAS		
					Percent Recovery	i	
	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	<b>7.5</b>	7.1	85-115	95	
Methyl tert-Butyl Ether	EPA 5030	8020	2.5	2.4	85-115	96	

ICV/032196

The first gold Company   Color Color   Chain of Cusiody   Chain of Cus	LIVOA IN F				ع ا	SU ,	43						·								
PROJECT No. 231-006.18	Thrifty Dil	Co	mpai	ط، (۵	,000	Lele	wal (	3/val,	Dom	rey				· · · · · · · · · · · · · · · · · · ·			Pacif	ic En	vironm	ental Group, Inc.	
PROJECT No. 531-035.18   Prince 408 441 77890   Facility Address: 6/25 Telegraph & Date   Date   Time   Prince 408 441 77890   Prince 4								Chain	of C	นร์เอ	dy	1 1 a	197	1			2025	Gatew	ay Place	#440, San Jose CA 9	5110
No.   Container   Condition of Sample:   Co	PROJECT No. 33	1-0	1.800	R		γ			<del></del>								Phone	e 408 4	41 779	D Fax 408 441 753	9
No.   Container   Condition of Sample:   Co	Facility No. 63					Facility	Address:	6125	Tele	grap	ad	Lie,	Da	hlac	~0		Billing	Refer	nce Nun	nber:	
Worster   G-grab   Worster   G-grab   Worster   G-grab   Sampling   Samplin	CLIENT engineer: Ch	<u>v13</u>	Panew	tesa	<b>,</b>	PACIFI	C Point of	Contact:	ongA	scher	ے۔	Sampl	ler: ]	Duy)	And	ws	Labor	atory I	Name:	Calumbia AS	
Sample									0		·		į	J						Comments:	<u></u>
Sample					W=water	G=grab			100											,	
Sample   Container   Sample   Container   Sample   Sample   Size   Si				1					3												
Sample   Container   Sample   Container   Sample   Sample   Size   Si				,	S=soll	D=disc.			72			Tatal								,	
Sample   Cont.   Size   Sample   Date   Time   Sampling   (2015)   Interest   (2015)					A=air	C=comp.			1			iotai	voc	svoc	нуос						
Doctor   Preserv.   Matrix   Type   Date   Time   S020)   (8015)   (8520)   Metals   8240)   8270   8010)	0		!		·					l.		1	1	1	i .						
T-1 (8')   2'1' ½/1' N/D   5	t in the second	No.	(ml)	Preserv	Matrix	Туре			1 .	1		ł		ļ.	i						
T-2 (g')  T-3 (g')  T-4 (g')  Temperature Received:  Time Pacific Environmental Group  Priority Rush (1 day)  Priority Rush (1 day)  Priority Rush (1 day)  Priority Rush (1 day)  Relinquished by  Date Time Received by  Date Time Received by  Date Time Received by Date Time Received Date Time R	T-1(81)	1	211/411	NP	5		2-4-98		X											:	
T-4 ( §')  Condition of Sample:  Temperature Received:  Temperature Received:  Temperature Received:  Temperature Received:  Temperature Received:  Temperature Received:  Time Pacific Environmental Group  Pacific Environmental Group  Priority Rush (1 day)  Priority Rush (1 day)  Priority Rush (1 day)  Priority Rush (2 days)  Relinquished by  Date Time Received by  Date Time Pacific Environmental Group  Priority Rush (1 day)  Rush (2 days)  Expedited (5 days)  Relinquished by  Date Time Received by  Date Time Received by Date Time 4020 148th Ave NE #B						1	1	·													
Condition of Sample:  Temperature Received:	į.																				
Condition of Sample:  Temperature Received:  Temperature Received:  Temperature Received:  Mail original Analytical Report to:  Pacific Environmental Group  Priority Rush (1 day)  Relinquished by  Date  Time  Received by laboratory  Date  Time  Date  Time  Date	1	V	1	V	V	V	V		V												
Relinquished by Date Time Received by Indicatory Date Time Received Date T																					
Relinquished by Date Time Received by Indicatory Date Time Received Date T																		$\vdash$	╁──		
Relinquished by  Date  Time  Received by  Date  Time  2025 Gateway Place #440  San Jose, CA 95110  Rush (2 days)  Relinquished by  Date  Time  Received by  Date  Time  Date  Time  Received by  Date  Time  Date  Time  Acceived by  Date  Time  Date  Time  Date  Time  Date  Time  Acceived by  Date  Time  Date		+-			-	<del> </del>		:						-			1				
Relinquished by  Date  Time  Received by  Date  Time  2025 Gateway Place #440  San Jose, CA 95110  Rush (2 days)  Relinquished by  Date  Time  Received by  Date  Time  Date  Time  Received by  Date  Time  Date  Time  Acceived by  Date  Time  Date  Time  Date  Time  Date  Time  Acceived by  Date  Time  Date			-					<del> </del>	<u> </u>					-						:	
Relinquished by  Date  Time  Received by  Date  Time  2025 Gateway Place #440  San Jose, CA 95110  Rush (2 days)  Relinquished by  Date  Time  Received by  Date  Time  Date  Time  Received by  Date  Time  Date  Time  Acceived by  Date  Time  Date  Time  Date  Time  Date  Time  Acceived by  Date  Time  Date									1		<u>                                     </u>			+		<u> </u>	-			1	
Relinquished by Date Time Received by Indicatory Date Time Received Date T		<del> </del>												<u> </u>			-	-			
Relinquished by  Date  Time  Received by  Date  Time  2025 Gateway Place #440  San Jose, CA 95110  Rush (2 days)  Relinquished by  Date  Time  Received by  Date  Time  Date  Time  Received by  Date  Time  Date  Time  Acceived by  Date  Time  Date  Time  Date  Time  Date  Time  Acceived by  Date  Time  Date	Condition of Sample:			1		<u> </u>	Tempera	 ture Rece	l ived:	<u> </u>	<u> </u>	<u> </u>	1	<u>.l</u>	Mail	original	Analytic	al Reno	 ht to:	Turnaround Times	
Relinquished by    Date   Time   Received by   Date   Time   2025 Gateway Place #440   San Jose, CA 95110   Rush (2 days)																				ramaroqua mus.	
Relinquished by   Date   Time   Received by   Date   Tim	Dalias dahad hu			Thata		<b>Y</b> !	D	:				16		٠٠٠٠		_			~~	Priority Rush (1 day)	$\boxtimes$
Relinquished by  Date  Time Received by laboratory	Reinquished by		_	,	? 4		i		-	ee										Rush (2 days)	
Relinquished by  Date  Time Received by  Date  Time Received by laboratory  Date  Time 25725 Jeronimo Rd. #576C Mission Viejo, CA 92622  Standard (10 days)  Date  Standard (10 days)	Relinquished by			1							<u></u>				620 C	ontra C	osta Blv	rd. #209			
Relinquished by  Date  Time  Received by laboratory  Date  Mission Viejo, CA 92622  Standard (10 days)  Date  Time  4020 148th Ave NE#B	Relinguished by			Date		Time	Beceiver	i hv	<del></del>			Date		Time	_i					Expedited (5 days)	
									•						Missi					Standard (10 days)	
Redmond, WA 98052 As Contracted	Relinquished by			Date		Time	Received	i by labora	atory			Date		Time	i i					As Contracted	

TPH VOA	,	Gen	chem,	FIX	00				<del></del>										<del></del>
TPH VOA Thriffy Oil	C	۸,	60,00	0 La	heun	od Dr	100m	ney (	-1	d								ental Group, Inc.	
PROJECT No. 33						(	Chain 980			uy √	•						y Place 41 7790	#440, San Jose CA Fax 408 441 75	i
/ ~	( -	,000	الميدا ا		Facility						1. K	had	Da	Izla	nel			nber: 21792-	
Facility No. 63 CLIENT engineer: Chy	>	Day	on for	٠, ,	3	C Point of	-		2 /	, ,		١.	_					Columbia	
CLIENT engineer.	V/S	, 101	CCC1 -30		I AOII I	J. Ollit Or	Joindon J	9		مردي	Jampi	b			<u> </u>			Comments:	
				W=water	G≖grab			t BE							20			;	
				S=soll A=air	D=disc. C=comp.			BTEX			Total		svoc	i i	the B				
Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Туре	Sampling Date	Sampling Time	VPHgas (8015/ 8020)	Diesel	Grease	Dislvd. Metals	624/	(EPA 627/ 8270)	(EPA 601/ 8010)	Ŕ			· · · · · · · · · · · · · · · · · · ·	
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	Ó,								•								٠.	Priority Rush (1 day)	X
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Relinquistion	-7		Date	<u>*</u>	Time	Received	lbý				Date		Time			osta Biv I. CA 94		Expedited (5 days)	
Relinquished by			Date		Time	Received	i by				Date	<del></del>	Time	1		imo Rd. o, CA 92		Standard (10 days)	
Relinquished by			Date		Time	Received	by labora	ltory			Date		Time	1		ve NE#I		As Contracted	

Columbia Analytical	TPHVOA EXT	PUF
JOS VICACIO		

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

Andlytical Services Inc. 3334 Victor Court • Santa Clar	EX.1	Y 4000 400	7.0400 - FAV (400)	407.0050		S	SERV	ICE R	EQUE	EST N	o	399	ĜOt	36	3	P.	.O.#					PA(	ge /	′ of /
PROJECT NAME The					~ 1	$\neg$		<del></del>							ALYS			UES	STEI	<u> </u>				
		,		<u> </u>	.,,			/ATIVE /			HCI /	NP /	NP /	NP	HCI /	HCI /	HNO3	NP /	H <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>	/H2SO4/	NaOH/	$\Box$	
PROJECT MGR.	9195	<del>gnare</del>	(1)	· · · · · · · · · · · · · · · · · · ·		တ္က				§ /							105,750	? /					- /	
COMPANY PACIFIE	Envi	on mei	Hal Grou	yp_					Volati		, Y	/,				//ଚୁ	108	. Ki	` /					
COMPANY Pacific ADDRESS 2025	Gale	way	Pl Svit	-44	3	Y		/ %			/ပ္န	lanic	/	/	etho	//os	7.00		/ <sub>0</sub> 0		/	/	/ ,	/ /
San Jose			PHONE 44	/-750	0	8		36.00	72 A 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	189E	WHB/	022	8 /	' /	/ <sup>z</sup> /	is /		(39)	Saff	/ /	/ /	′ /	′ /	
		, /	FAX 440	-753°	2	Ö		2 / 24 g						/8,1					)   	δο./ 		. /	/	/ .
SAMPLER'S SIGNATURE	Dary (	gur				NUMBER OF CONTAINERS			3 8	3 S	<u></u> \$ ₹	S :5:5		* / E			Ş, <sup>\</sup> Ş,	\$/§	" / ខ្ញុំ	e / ¿	g /			
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMF MATE	RIX	ᢓ	(ટુંટ્રેંટ્રે	Halogenated (826)	TPH as G2/8020 C Volatiles	TPH 48 DIG MIBE X			THPH.	Oil and C	Metals (total	景	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ૢૺૢ૽ૼૢ૾	Total B.	Syanie		/	/	REMARKS
	2-23-58		1	Soil		1			X															
P-2 (3')			2	).		1										)								
P-3 (3')			3																					
P-4(3')			4			7,1																		
P-5(31)			5	1		V			1															
													=	à										
P-6(3')	2/23/98		6	Soi	1	1			X	Mr.				7.7										
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RELINQUISHED B	Y:	F	RECEIVED BY:	1	R	ELIN	iquis	HED	BY:			RE	CEIV	ED B	Y:	•	TUR	NAROU	IND RE	QUIRE	MENTS		REPORT	REQUIREMENTS
Doglehole		Kay	oulu-	=	Signatu						Signa	t. ro	<del>,</del>				X	1 day _	2 d	ay	3 day	<i>-</i> ×		tine Report
Signardie Anchews		LAV	lovelace															5 day				-	MS	oort (includes MS. D, as required, may be arged as samples)
Printed Name		Printe N	ame S		Printed	wam	ie					d Nar	ne				ŀ	Standar			ys)	_		ta Validation Report cludes All Raw Data)
Firm			3/98 12	30	Firm						Firm						Results	ر کے_Due	2/2	4/9	8	_		icludes All Raw Data) /PQLs/Trace #
Date/Time 2-23-59/12	:30pm	Date/Time	9 /		Date/Ti	me					Date/	Time												onic Data Deliverables
RELINQUISHED B	Y:	F	RECEIVED BY:		SAMPL	E RE	ECEIP	T: Co	nditio	n					Custo	dy Se	als							
Clasture		Signature		l	SPECIA																			: .
Signature	····				Circle v Metals:		meta Al S					· Ca	· · ·	Co	. Cu	Fo	Ma	1	n N/I	n N	li K	Δc	Na	Sn V Zn
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Firm		Firm										:												· :
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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:

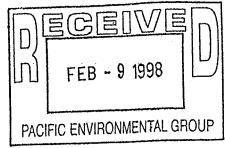
\$9800268-001

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	
	EPA 5030	8020	0.5	200	NA	2/10/98	800	
Benzene	EPA 5030	8020	0.5	200	NA	2/10/98	14000	
Toluene	EPA 5030	8020	0.5	200	NA	2/10/98	4500	
Ethylbenzene	EPA 5030	8020	1	200	NA	2/10/98	27000	
Xylenes, Total Methyl tert-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

Steven L. Green Project Chemist

11001 107 OGEY

Acronyms

American Association for Laboratory Accreditation A2LA

American Society for Testing and Materials **ASTM** 

Biochemical Oxygen Demand BOD

Benzene, Toluene, Ethylbenzene, Xylenes **BTEX** 

CAM California Assessment Metals CARB California Air Resources Board

**CAS Number** Chemical Abstract Service registry Number

Chlorofluorocarbon **CFC** Colony-Forming Unit **CFU** Chemical Oxygen Demand COD

Department of Environmental Conservation DEC Department of Environmental Quality DEQ Department of Health Services DHS

**Duplicate Laboratory Control Sample** DLCS

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

U. S. Environmental Protection Agency **EPA** 

Environmental Laboratory Accreditation Program **ELAP** 

Gas Chromatography GC

Gas Chromatography/Mass Spectrometry GC/MS

Ion Chromatography IC

Initial Calibration Blank sample **ICB** 

Inductively Coupled Plasma atomic emission spectrometry ICP

Initial Calibration Verification sample **ICV** 

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

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

Laboratory Control Sample LCS Leaking Underground Fuel Tank LUFT

Modified М

Methylene Blue Active Substances **MBAS** 

Maximum Contaminant Level. The highest permissible concentration of a MCL

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

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

Matrix Spike MS

Methyl tert-Butyl Ether MTBE

Not Applicable NA Not Analized NAN Not Calculated NC

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

National Institute for Occupational Safety and Health NIOSH

Nephelometric Turbidity Units NTU

Parts Per Billion ppb Parts Per Million ppm

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

RCRA Relative Percent Difference RPD

Selected Ion Monitoring SIM

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

Solubility Threshold Limit Concentration STLC

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

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

Toxicity Characteristic Leaching Procedure TCLP

Total Dissolved Solids TDS

Total Petroleum Hydrocarbons TPH

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

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

Total Recoverable Petroleum Hydrocarbons TRPH

Total Suspended Solids TSS

Total Threshold Limit Concentration TTLC

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

#### 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 tert-Butyl Ether	EPA 5030	8020	3	1	NA	2/10/98	ND	
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#### --- 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	0000	0.5	. 1	NA	2/6/98	ND	
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

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

#### 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

Method Blank

Lab Code

Test Notes

Percent Recovery 4-Bromofluorobenzene

a,a,a-Trifluorotoluene

T-1

S9800268-001

S980210-WB1

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CAS Acceptance Limits:

69-116

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Tanty Oil Co, 10,000 takeword Blud, Dovery 59800242 Chain of Custody Pacific Environmental Group, Inc. 2025 Gateway Place #440, San Jose CA 95110 PROJECT No. 331-008.1B Phone 408 441 7790 Fax 408 441 7539 Facility Address: 6125 Telegraph Are, Oakland Facility No. Billing Refence Number: CLIENT engineer: Clm3 Paventescu PACIFIC Point of Contact: Doug Anchews Sampler: Dougheleus Laboratory Name: CA. S. Comments: W=water G-grab S-soil D=disc. mtBE/ Total **BTEX/** VOC SVOC ниос C=comp. **VPHgas** Oil and Dislvd. (EPA (EPA (EPA Container TPH Size Sample Sampling Sampling (8015/ Diesel Grease 624/ 627/ 601/ Cont. Sample No. (ml) Date Time 8020) (8015) (5520) Metals 8240) 8270) 8010) I.D. Preserv. Matrix Type NP G 1-W 12-4-48 Temperature Received: Mail original Analytical Report to: Condition of Sample: Turnaround Time: Pacific Environmental Group X Priority Rush (1 day) Date Received by Time 2025 Gateway Place #440 Relinquished by Date Time 2-8-98 9:45 San Jose, CA 95110 Rush (2 days) Relinquished by Time Received by Date 620 Contra Costa Blvd. #209 Date Pleasant Hill, CA 94523 Expedited (5 days) Time Date Time 25725 Jeronimo Rd. #576C Received by Date Relinquished by Mission Vielo, CA 92622 Standard (10 days) Received by laboratory Date Time 4020 148th Ave NE #B Date Relinquished by Redmond, WA 98052 As Contracted

# ATTACHMENT C NONHAZARDOUS WASTE DATA FORMS

Sail Master (c)

TPS Technologies, Inc.

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

Job Numbe	r Name		SiteAddress	Site	:City	State	ZipCode
	9 Thrifty Oil/#63	••	6125 Telegraph Ave.	Oak	landd	CA	94110
Load#	Date & Time Out	Transporter#	Truck & Trailer Number	Gross (lb) 91,700M	Tare (lb) 30,380M	Net (lb) 61,320	Net W: (tons) 30.66* 21.37*
2 1 3 11 4 5 10 9 6 8 7 12 13 14 15	02/11/98 08:40 02/11/98 09:26 02/11/98 09:53 02/11/98 10:26 02/11/98 10:26 02/11/98 11:42 02/11/98 13:17 02/11/98 13:17 02/11/98 13:50 02/11/98 14:51 02/11/98 09:35 02/12/98 09:35 02/12/98 10:00 02/12/98 11:52 02/12/98 11:57	4DENBES		76,860M 100,940M 105,780M 84,620M 93,740M 80,660M 93,960M 81,240M 96,580M 79,140M 95,760M 98,280M 95,730M 95,740M 95,740M 102,060M 108,780M	34,120M 33,740M 26,880M 34,120M 33,740M 34,120M 33,740M 34,120M 33,740M 33,740M 33,740M 26,880M 32,760M 26,880M 32,760M 26,880M	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 69,300 81,900	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 ° 34.65 ° 40.95
20 21 22 25 24 23	02/12/98 14:20 02/12/98 14:40 02/13/98 10:46 02/13/98 11:19 02/13/98 13:02 02/13/98 13:25	4DENBES 4DENBES 4DENBES 4DENBES 4DENBES 4DENBES 4DENBES 4DENBES 4DENBES		99,840M 109,700M 104,180M 107,340M 108,780M 113,640M	32,760M 26,880M 32,280M 26,880M 32,280M 32,280M	67,080 82,820 71,900 80,460 76,500 81,360	40.2° 38.2
Comple	•	Innifests Received	Completed Weight		ted Weight O(tons)	TO	TAL NET Wt: 779 72 (tons)

TPS Technologies, Inc.

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

Name	•	SiteAddress	Sit	eCity	State	ZipCode
Thrifty Oil/#63		6125 Telegraph Ave.	Oa	klandd	CA	94110
ate & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare	Net (lb)	Net Wt (tons)
2/26/98 07:36	4DENBES			30,320M	43,000	21.50
			86.300M	30,320M	55,980	27.99
	•		76.560M	•	45,160	22.58`
				•	40,520	20,26 '
	•• ••• •		•		48,480	24.24*
			. •	32,280M	43,860	21.93
2/26/98 10:15	4DENBES	•	78,660M	30,320M	48,340	24.17
		Completed Weight				AL Net Wt: 162.67 (tons)
	2/26/98 07:36 2/26/98 08:20 2/26/98 08:52 2/26/98 09:03 2/26/98 09:13 2/26/98 09:52 2/26/98 10:15	Are & Time Out Transporter #  2/26/98 07:36	Are & Time Out Transporter # Truck & Trailer Number  1/26/98 07:36	Atte & Time Out Transporter # Truck & Trailer Number Gross (lb)  1/26/98 07:36	Are & Time Out Transporter # Truck & Trailer Number Gross Tare (lb) (lb) (lb)  1/26/98 07:36	Are & Time Out Transporter # Truck & Trailer Number Gross Tare Net (lb) (lb) (lb) (lb) (lb) (lb) (lb) (lb)

Soil Master (c)

TPS Technologies, Inc

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

	SiteAddress	Site	eCity	State	ZipCode
•	6125 Telegraph Ave.	Oal	dandd	CA	94110
Transporter#	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
4DENBES 4DENBES		76,780M · 56,600M ·	31,860M - 31,860M -	44,920 24,740	22.46 × 12.37 ×
ifests Received 34	Completed Weight 504.60%		-		11. Net Wt: 34.83 (tons)
	Transporter #  4DENBES  4DENBES  ifests Received	SiteAddress 6125 Telegraph Ave.  Transporter # Truck & Trailer Number  4DENBES 4DENBES ifests Received Completed Weight	SiteAddress Site  6125 Telegraph Ave. Oal  Transporter # Truck & Trailer Number Gross (lb)  4DENBES 76,780M  4DENBES 56,600M  ifests Received Completed Weight Estimates	SiteAddress SiteCity  6125 Telegraph Ave. Oaklandd  Transporter # Truck & Trailer Number Gross Tare (lb) (lb) 4DENBES 76,780M 31,860M 4DENBES 56,600M 31,860M	SiteAddress         SiteCity         State           6125 Telegraph Ave.         Oaklandd         CA           Transporter #         Truck & Trailer Number         Gross         Tare         Net           (lb)         (lb)         (lb)         (lb)           4DENBES         76,780M · 31,860M · 24,740 ·           4DENBES         56,600M · 31,860M · 24,740 ·           ifests Received         Completed Weight         Estimated Weight         TOTA

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

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4	The second secon	ant Dogument		2 Page 1	Information in the shr is not required by Fec	
	TIRIFTY OIL COMPANY 10000 LAREWOOD BLVD.: DOWNEY, CA 90240 4 Generalar's Phone (562) 923-9876		B > Join	Angle (IV)		
	5. Transporter 1 Company Name 6. US EPA 10 Number		Crision.			
	ADAMS STIPLICES TUC. CATACON Number 7. Transpariar 2 Company Name 8. US EPA ID Number	الململه		Sana Pa Phona 193 A 1944 Ironii potkiria 10 AAA	ない なすみ なをきなぐ	
		111	F. Transp	orter's Phone		
	9. Designoted Facility Name and Site Address  DeMENNO/KERDXXXX  2000 N. ALAMEDA ST.			ardal skal	olizitaLi (UII)	1.12
	COMPTON; CA 90225 - ID A DO B CO I I 3  11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Con		13. Yold	Id. Unii #5000 Wi/Vol 114900	
	C.	No.	Туре	Quantity	3	an leceste
GE	(OIL & WATER) NON-R.C.P.A. HAZARDOUS WASTE LIQUID	ગુગુ 1	T T	XXIZIOC	G	
N E R	<b>o.</b>	11		111	TIA/O	
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	d.				7.76	
		37943-507	K. Hanal	no constitution		7
	997. WATER	ed Allegan The Ass	c. ::'	01		
	15. Special Mandling Instructions and Additional Information  DON PROPER PROTECTIVE GEAR	14.2:	5125	Telegrap!	Ave.: Oak	land,
	NO SMOKING: E.R.G. #27	ctor: "	. H. C	Jurit La Con:	struction (	o I
1	EMERGENCY 4: 1.071,713  16. GENERATOR'S CERTIFICATION: Thereby declare that the contents of this consignment are fully and accomprised and labeled, and are in all respects in proper condition for transport by highway occording					
	If I am a large quantity generator, I certify that I have a program in place to reduce the valume and practicable and that I have selected the practicable method of treatment, storage, or disposal current and the environment; OR, if I am a small quantity generator, I have made a good latth effort to min	l toxicity of w	nsla genari	nted to the degree I	have determined to be	sconomics human he
¥,	gvaliable to me and that I can afford.  Printed/Typed Name  The service of the se				Month CZ.	ο <sub>ογ</sub>  4/  5
	17 Transporter 1 Acknowledgement of Receipt of McMrials Printed/1928 Name Signature	Jr	11/1	/.	Month 21210	Doy 14 1
	18. Transports 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature	•			Month	Doy
FAC	19. Discrepancy Indication Space		`			
	20. Fastily Owner or Operator Certification of receipt of hazordous materials covered by this manifest ex	cont as noted	ın licm 19.		Month	Doy A
+	Printed/Typed Name Signature .	/	•		111.	\ / *?

### APPENDIX E

## TANK CERTIFICATE OF DESTRUCTION

• ·	CERTIFICATE OF DESTRUCTION
COMPAI	NY NAME (UCO
: AIDIDRE:	ss 6/25 Selegraph (INC)
	ss 6/35 Delegraph ave:
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HAS/HA DESTRO	AVE BEEN SCRAPPED, CRUSHED AND TOTALLY OYED ON:
HAS/HA DESTRO	OYED ON: J-5-78
DESTR	OVED ON: 5-5-98
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SIGNAT	OYED ON: J-5-78
SIGNAT	OYED ON: J-5-78

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

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	7 Transporter 2 Compuny Nome 8.	US LIV ID HOWAS	(Vieta)		
	9. Designated Facility Name and Sile Address 10.	US EPA ID Number	78.25°		
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ı	11. US DOT Description (including Proper Shipping Name, Hozard Class,		12. Containers	13, Total Quantity	Wi/Yal U. Waite Number
	0.				
I G	NON-RORA HAZARDOUS WASTE SOLID WASTE FAIRTY STORAGE TANK		cioli Tr	ملململوا م	P
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	PROTECTIVE CLOTHING	•			setruction Co., I
	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of marked, and labeled, and are in all respects in proper condition to	CONE!	accurately described abov	by proper shipping	name and are classified, packed, rernment regulations.
	marked, and labeled, and are in all respects in proper condition to	transport by highway accord	ang to approve the same care	mend to the degree	I have determined to be economics
	If I am a large quantity generator, I certify that I have a program practicable and that I have selected the practicable method at treat and the environment; OP, if I am a small quantity generator, I have a start to the process of	in place to reduce the volume ment, storage, or disposal curs e made a good faith effort to	ung textily or waste general minimize my waste general minimize my waste general minimize my waste general	h minimizes the pre- tion and select the b	sel, mare manadement weiped tha sel, and frince threat to primati tied
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Á	19. Discrepancy Indication Space  20. Facility Owner or Operator Certification of receipt of hazardous m. Printed/Typed Name	gignoture .	st except as nated in Item 1	P	Month Day

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9-85			8: Ni 11 71 31				589-5220
		7. Transporter 2 Company Name B. US EPA ID Number	141111				
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111		WEAR APPROPRIATE PERSONAL PROTECTIVE CLOTHING					_
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SALL		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully or marked, and allowed, and are in all respects in proper condition for transport by highway occord					
EMERGENCY OR SPILL,		If I am a large quantity generator, I certify that I have a program in place to reduce the volume practicable and that I have selected the practicable method of treatment, storage, or disposal cut and the environment; OR, II I am a small quantity generator, I have made a good faith effort to available to me and that I can afford.	and loxicity of we reently available to minimize my wast	s Baua.atio we Apich i we Apich i	and to the degree I in minimizes the present in and select the bes	nove determing and future to waste man	ned to be economically threat to human health agement method that is
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	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this marked, and labeled, and are in all respects in proper condition for tra	is consignment are fully and ac	curately dess	ribed atove	by proper shipping t	roment regulation	assilied, pack ons.	ed.
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	procticable and that I have selected the practicable method of treatment and the environment; OR, if I am a small quantity generator, I have may available to me and that I can afford.	ode a good faith effort to mir	nimize my wa	sie generali	on and solect the be	st waste manag	errorr racers	
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#### Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Service Request: S9800243

Date Collected: 2/4/98

Units: mg/Kg (ppm)

Basis: Wet

Date Received: 2/5/98

#### BTEX, MTBE and TPH as Gasoline

Sample Name:

T-4(8')

Lab Code:

S9800243-004

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	2/5/98	2/6/98	2	
	EPA 5030	8020	0.005	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		8020	0.005	1	2/5/98	2/6/98	0.01	
Xylenes, Total  Methyl-tert-butyl ether	EPA 5030 EPA 5030	8020	0.05	1	2/5/98	2/6/98	0.07	

1S22/020597p

#### 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	
• • • • • • • • • • • • • • • • • • • •	EPA 5030	8020	0.005	25	2/10/98	2/10/98	< 0.12	Cl
Benzene	EPA 5030	8020	0.02	25	2/10/98	2/10/98	<0.5	C1
Toluene	EPA 5030	8020	0.005	25	2/10/98	2/10/98	0.71	•
Ethylbenzene		8020	0.02	25	2/10/98	2/10/98	1.1	
Xylenes, Total	EPA 5030		0.05	25	2/10/98	2/10/98	<1.2	C1
Methyl-tert-butyl ether	EPA 5030	8020	0.05	23	2110170	2, 20, 70		

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

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	2/23/98	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

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-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 Benzene Toluene Ethylbenzene Xylenes, Total	EPA 5030 EPA 5030 EPA 5030 EPA 5030 EPA 5030	CA/LUFT 8020 8020 8020 8020	1 0.005 0.005 0.005 0.005	100 100 100 100 100	2/23/98 2/23/98 2/23/98 2/23/98 2/23/98	2/24/98 2/24/98 2/24/98 2/24/98 2/24/98	1200 1.7 24 21 96	
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

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	5	2/23/98	2/24/98	<5	Cl
	EPA 5030	8020	0.005	5	2/23/98	2/24/98	0.062	
Benzene	EPA 5030	8020	0.005	. 5	2/23/98	2/24/98	0.092	
Toluene		8020	0.005	5	2/23/98	2/24/98	0.031	
Ethylbenzene	EPA 5030	8020	0.005	5	2/23/98	2/24/98	0.098	
Xylenes, Total  Methyl-tert-butyl ether	EPA 5030 EPA 5030	8020	0.05	5	2/23/98	2/24/98	9.4	

#### Analytical Report

Client:

ARCO Products Company

Project:

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

Sample Matrix:

Sail

Service Request: \$9800363

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	<b>7.4</b> .	
	EPA 5030	8020	0.005	100	2/23/98	2/24/98	47	
Xylenes, Total 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

Units: mg/Kg (ppm)

Basis: Wet

BTEX, MTBE and TPH as Gasoline

Sample Name:

Methyl-tert-butyl ether

P-5(3')

Lab Code:

S9800363-005

EPA 5030

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	•

#### 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	7
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 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-1

Lab Code:

S9800228-001

EPA 5030

EPA 5030

Basis: Wet

0.022

0.56

2/4/98

2/4/98

Units: mg/Kg (ppm)

Test Notes:

Xylenes, Total

Methyl-tert-butyl ether

Result Date Dilution Date Prep Analysis Notes Result Method MRL Factor Extracted Analyzed Method Analyte ND 2/4/98 1 1 2/3/98 TPH as Gasoline EPA 5030 **CA/LUFT** 2/4/98 ND 1 2/3/98 8020 0.005 EPA 5030 Benzene 2/3/98 2/4/98 ND 1 8020 0.005 Toluene EPA 5030 1 2/3/98 2/4/98 ND 8020 0.005 Ethylbenzene EPA 5030

0.005

0.05

8020

8020

1

2/3/98

2/3/98

#### Analytical Report

Client:

Pacific Environmental Group 6125 Telegraph/331-008.1B

Project: Sample Matrix:

Soil

Service Request: S9800228

Date Collected: 2/3/98

Units: mg/Kg (ppm)

Basis: Wet

Date Received: 2/3/98

#### BTEX, MTBE and TPH as Gasoline

Sample Name:

Methyl-tert-butyl ether

SS-2

Lab Code:

S9800228-002

EPA 5030

Test Notes:

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

0.05

8020

2/3/98

1

2/3/98

ND

#### 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

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-3

Lab Code:

Test Notes:

S9800228-003

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	

#### 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)

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

Units: mg/Kg (ppm)

Basis: Wet

ND

2/4/98

2/3/98

#### BTEX, MTBE and TPH as Gasoline

Sample Name:

Methyl-tert-butyl ether

SS-5

Lab Code:

Test Notes:

S9800228-005

EPA 5030

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	
Alyichos, Iolai	21113030						3.70	

0.05

8020

#### 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	٠,.
	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		8020	0.005	1	2/3/98	2/4/98	ND	
Xylenes, Total  Methyl-tert-butyl ether	EPA 5030 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	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-8

Lab Code:

S9800228-008

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	
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

Date Received: 2/3/98

Service Request: S9800228

Date Collected: 2/3/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-9

Units: mg/Kg (ppm)

Lab Code:

S9800228-009

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 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	

### 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:

Test Notes:

S9800228-010

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	

#### 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:

Test Notes:

S9800228-011

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	0.007	
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

Units: mg/Kg (ppm)

Test	Nο	tes:

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	<i>.</i> *.
Benzene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	4.03	1.0
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:

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:

Test Notes:

S9800228-014

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:

Test Notes:

S9800228-015

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	
	EPA 5030	8020	0.005	50	2/3/98	2/4/98	4.2	
Benzene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	78	
Toluene	EPA 5030	8020	0.005	50	2/3/98	2/4/98	49	
Ethylbenzene 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:

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:

Methyl-tert-butyl ether

SS-16

Lab Code:

S9800228-016

EPA 5030

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-hutyl ether	EPA 5030	8020	0.05	50	2/3/98	2/4/98	5.2	

0.05

8020

### 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

Units: mg/Kg (ppm)

Basis: Wet

### BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-17

Lab Code:

S9800228-017

Test Notes:

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

Lab Code:

Test Notes:

S9800362-001

Units: mg/Kg (ppm)
Basis: Wet

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

### Analytical Report

Client:

ARCO Products Company

Project: Sample Matrix: Thrifty Oil Station 63/TO#21792.00/331-008.1B

Soil

Service Request: \$9800362

Date Collected: 2/23/98

Date Received: 2/23/98

#### BTEX, MTBE and TPH as Gasoline

Sample Name:

Lab Code:

SS-20

S9800362-002

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	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

C1

### Analytical Report

Client:

ARCO Products Company

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

Service Request: S9800362

Project: Sample Matrix:

Soil

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	1
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:

Service Request: S9800362

Date Collected: 2/23/98

Date Received: 2/23/98

#### BTEX, MTBE and TPH as Gasoline

Sample Name:

SS-22

S9800362-004

Lab Code: 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

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: 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)

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	· · · · · · · · · · · · · · · · · · ·	2/23/98	2/23/98	0.007	
Xylenes, Total	EPA 5030	8020	0.005		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	

Analytical Report

Client:

Pacific Environmental Group

Project:

6125 Telegraph/331-008.1B

Sample Matrix:

Date Collected: 2/3/98

Date Received: 2/3/98

Service Request: S9800228

Units: mg/Kg (ppm)

Basis: Wet

Total Metals

Lead

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 SS-8 SS-15 Method Blank	S9800228-001 S9800228-008 S9800228-015 S980204-MB	5 5 5 5	1 1 1	2/4/98 2/4/98 2/4/98 2/4/98	2/4/98 2/4/98 2/4/98 2/4/98	ND ND 6 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) 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	