ExxonMobil
Refining & Supply Company
Global Remediation
25A Crescent Drive #407
Pleasant Hill, CA 94523
(925) 246-8747 Telephone
(925) 246-7822 Facsimile
gene.n.ortega@exxonmobil.com

Gene N. Ortega
Project Manager
Global Remediation – U.S. Retail

ExxonMobil
Refining & Supply

September 28, 2004

Mr. Amir Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Subject: Former Mobil Station 04-334, 2492 Castro Valley Boulevard, Castro Valley, California

Dear Mr. Gholami:

Attached for your review and comment is a copy of the *Report of Well Installation* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the installation of four groundwater monitoring wells. This work was conducted in accordance with work proposed in TRC's Site Assessment Workplan dated May 16, 2003 and with the well locations proposed in ETIC's February 2004 Subsurface Investigation Report approved by the Alameda County Health Care Services Agency in a letter dated March 5, 2004.

If you have any questions or comments, please contact me at (925) 246-8747.

Sincerely,

Gene N. Ortega
Project Manager

Attachment: ETIC Report of Well Installation dated September 2004

c: w/ attachment:
Ms. Paula Floeck – Jiffy Lube International
Mr. Dan McQuillen – Jiffy Lube Remediation Coordinator
Mr. William Slautterback – Cal Lube Real Estate Limited Partnership
Mr. William Peterson – Owner of Castro Valley Lumber Company

c: w/o attachment:
Ms. Christa Marting - ETIC Engineering, Inc.

12306

ETIC ENGINEERING

Report of Well Installation

Former Mobil Station 04-334
2492 Castro Valley Boulevard
Castro Valley, California

Prepared for

ExxonMobil Refining and Supply Company
25A Crescent Drive #407
Pleasant Hill, California 94523

Prepared by

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523
(925) 602-4710

9/28/04

Bryan Campbell
Project Manager

Date

REGISTERED GEOLOGIST
MARK C. PETERSON
No. 2085
~~CERTIFIED~~
ENGINEERING
GEOLOGIST
Exp. 3/31/06
STATE OF CALIFORNIA

9/28/04

Mark C. Peterson, C.E.G. #2085
Senior Geologist

Date

September 2004

CONTENTS

LIST OF FIGURES AND TABLES

Former Mobil Station 04-334

SITE CONTACTS

Station Number:	Former Mobil Station 04-334
Station Address:	2492 Castro Valley Boulevard Castro Valley, California
ExxonMobil Project Manager:	Gene N. Ortega ExxonMobil Refining and Supply Company 25A Crescent Drive #407 Pleasant Hill, California 94523 (925) 246-8747
Consultant to ExxonMobil:	ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, California 94523 (925) 602-4710
ETIC Project Manager:	Bryan Campbell
Regulatory Oversight:	Amir Gholami Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502 (510) 567-6700

1. INTRODUCTION

At the request of ExxonMobil Refining and Supply Company (ExxonMobil), ETIC Engineering, Inc. (ETIC) observed the installation of three onsite groundwater monitoring wells (MW1, MW2, MW3) at former Mobil Station 04-334, located at 2492 Castro Valley Boulevard, Castro Valley, California, and one offsite groundwater monitoring well (MW4), located at 2495 Castro Valley Boulevard.

The well installations were conducted in accordance with the work proposed in TRC's Site Assessment Workplan dated 16 May 2003 (TRC 2003) which was approved by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated 12 September 2003. The well locations outlined in ETIC's Subsurface Investigation Report, dated February 2004, were approved by the ACHCSA in a letter dated 5 March 2004. Correspondence from the ACHCSA is provided in Appendix A. This report documents the results of the well installations.

Scope of Work

The investigation consisted of the following activities:

- Between 23 and 25 June 2004, four soil borings (MW1, MW2, MW3, MW4) were drilled to between 15 and 20 feet below ground surface (bgs) and were completed as 2-inch-diameter groundwater monitoring wells.

- Selected soil samples were collected during drilling activities at intervals of 5 feet or less and were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) and as diesel (TPH-d) by EPA Method 8015B, for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and for methyl t-butyl ether (MTBE) by EPA Method 8260B.

- The wells were developed on 9 July 2004.

- On 13 August 2004, groundwater samples were collected from the wells during the third quarter monitoring event. The samples were analyzed for TPH-g and TPH-d by EPA Method 8015B, BTEX by EPA Method 8021B, and MTBE by EPA Method 8260B.

2. SITE BACKGROUND

2.1 SITE LOCATION, HISTORY, AND LAND USE

Former Mobil Station 04-334 is an active Jiffy Lube-branded oil change service business located at 2492 Castro Valley Boulevard, on the northwest corner of the intersection of Castro Valley Boulevard and Stanton Avenue (Figures 1 and 2). The site was previously operated as a service station by GP Petroleum from 1956 to 1969. In 1956, two 6,000-gallon underground storage tanks (USTs) and one used-oil UST were installed. The service station was operated by Mobil Oil from 1969 to 1983. An 8,000-gallon UST was installed in 1971. In 1983, the three fuel USTs and one used-oil UST were removed from the site.

The site lies in a predominantly commercial district. To the east, across Stanton Avenue, is a Tosco 76 Service Station which is a former Thrifty Oil station. The former Thrifty Oil site is an active Leaking Underground Storage Tank site under the jurisdiction of the ACHCSA. The former Thrifty Oil site has 12 groundwater monitoring wells, including one well (RS9) which is located adjacent to the east side of the former Mobil site. To the west of the former Mobil site is a Big-O Tire business and to the south across Castro Valley Boulevard is a Wendy's Restaurant. To the southeast of the site is the Castro Valley Lumber Co. business. To the north is a residential area.

The site is situated near the base of the northwest trending foothills separating Castro Valley from Hayward. The site is located at an elevation of approximately 180 feet above mean sea level.

2.2 SUMMARY OF PREVIOUS INVESTIGATIONS

In 1983, three fuel USTs and one used-oil UST were removed from the site. Soil samples were collected for geotechnical and physical properties analysis to determine compaction specifications for backfill of the tank cavity. Petroleum hydrocarbon odor was not noted during backfilling of the tank cavity (Judd Hall and Associates 1983).

In 1986, a geotechnical assessment was conducted by Giles Engineering Associates, Inc. on behalf of California Lubricants Ltd. Six soil borings were advanced onsite and sampled. Slight to moderate petroleum hydrocarbon odor was noted from 3 feet to 8.6 feet bgs while drilling in the backfill and former tank cavity (Alisto 1994). No soil samples were submitted for analysis during this assessment.

In March 1999, TRC advanced five direct-push borings (AB1 through AB5) to total depths ranging between 16 and 20 feet bgs. Selected soil and groundwater samples were analyzed for TPH-g, TPH-d, BTEX, and MTBE. Selected soil and groundwater samples collected from AB2, located near the former used-oil tank, were also analyzed for oil and grease and halogenated volatile organic compounds (HVOCs). Soil samples from AB2 were further analyzed for CAM-17 metals (TRC 1999).

- For the soil samples, maximum concentrations of 2,600 milligrams per kilogram (mg/kg) TPH-g, 700 mg/kg TPH-d, and 3.4 mg/kg benzene were detected in AB4 (10-11 feet bgs). A maximum concentration of 8 mg/kg MTBE by EPA Method 8021 was detected in AB4 (10-

11 feet bgs); however, the result for the confirmation sample analyzed by EPA Method 8260B was below the laboratory reporting limits.

- For the groundwater samples, maximum concentrations of 4,300 micrograms per liter (µg/L) TPH-g and 210 µg/L benzene were detected in AB3. A maximum concentration of 5,500 µg/L TPH-d was detected in AB4. MTBE was not detected in any groundwater sample above laboratory reporting limits.

In November 2003, ETIC conducted a subsurface investigation. Seven direct-push soil borings (SB1-SB7) were advanced to total depths ranging between 15 and 20 feet bgs (with the exception of SB4 which was terminated at 2 feet bgs). Selected soil samples were collected from SB2, SB3, SB5, and SB6 and groundwater samples were collected from SB2, SB3, SB5, and SB6. The samples were analyzed for TPH-g, TPH-d, BTEX, and MTBE. Selected samples from boring SB2 were also analyzed for Total Recoverable Petroleum Hydrocarbons (TRPH) (ETIC 2004).

- For the soil samples, maximum concentrations of 1,960 mg/kg TPH-g, 876 mg/kg TPH-d, and 2.67 mg/kg benzene were detected in boring SB3 (10.5-11 feet bgs). TRPH was detected at a maximum concentration of 47.4 mg/kg in boring SB2 (5.5-6 feet bgs). MTBE was not detected above laboratory reporting limits in any of the soil samples.

- For the groundwater samples, maximum concentrations of 46,700 µg/L TPH-g, 13,400 µg/L TPH-d, and 1,170 µg/L benzene were detected in boring SB3. Groundwater collected from boring SB2 was analyzed for TRPH, which was not detected above the laboratory reporting limit. MTBE was detected in boring SB2 at a concentration of 2.1 µg/L. MTBE was not detected in samples collected from any other borings.

Soil sample analytical results are presented in Table 1. Groundwater sample analytical results for temporary borings are presented in Table 2.

2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY

The former Mobil site is underlain by Quaternary-age alluvium. Mapped bedrock outcrops near the site include the Panoche Formation, which is described as a conglomerate with a sandstone matrix, and the Knoxville Formation, which is described as a micaceous shale with thin beds of sandstone (Alton 1997). The site is located in the Castro Valley Groundwater Basin, which is a 4-square mile basin that is drained by the San Lorenzo Creek (DWR 1975).

The nearest surface water body to the site is the South Reservoir, located approximately 2,300 feet southeast of the site. San Lorenzo Creek is located approximately 3,500 feet southwest of the site.

2.4 LOCAL GEOLOGY AND HYDROGEOLOGY

The geology and hydrogeology of the site have been evaluated using the boring logs from previous site investigations. The majority of the native soil types encountered during drilling consist of silts and clays to at least 20 feet bgs, the maximum explored depth. Relatively minor lenses of silty sand and silty gravel have been encountered within the major soil types with a thickness of no more than 4 feet beneath the site.

Depth to groundwater at the site ranges between 2 and 10 feet bgs. Groundwater flow direction is generally toward the southeast.

3. SUBSURFACE INVESTIGATION

ETIC observed the installation of four groundwater monitoring wells (MW1 through MW4) between 23 and 25 June 2004. The soil borings for the wells were drilled using hollow-stem auger drilling methods. The wells were installed as 2-inch monitoring wells. The well locations were selected to define the extent of dissolved-phase hydrocarbons in groundwater and were based on the anticipated groundwater flow direction. Permits to install the wells were obtained from the Alameda County Public Works Agency prior to drilling and are included in Appendix B. The locations of the wells are shown on Figure 2.

3.1 DRILLING OF SOIL BORINGS

The borings were drilled on 24 and 25 June 2004 by Cascade Drilling, Inc. of Rancho Cordova, California (C-57 license #717510), using a limited access drill rig equipped with 8.25-inch-diameter hollow-stem augers. Borings MW1, MW2, and MW3 were drilled to a depth of approximately 20 feet bgs, and boring MW4 was drilled to a depth of approximately 15 feet bgs.

The borings were cleared on 23 July 2004 by Cascade Drilling, Inc. with an air vacuum rig to ensure that there were no obstructions near the potential path of the augers. Boring MW1 was cleared to a depth of 5.5 feet bgs, borings MW2 and MW3 were each cleared to a depth of 5 feet bgs, and boring MW4 was cleared to a depth of 8 feet bgs. The borings were continuously logged from the base of the cleared hole to the total depth, and selected soil samples were collected from each boring for laboratory analysis. The hollow-stem augers and downhole equipment were pressure washed before drilling began and upon completion of each borehole. Equipment rinsate was collected in 55-gallon drums and temporarily stored on the site. Field methods and procedures are described in the protocols, presented in Appendix C.

3.2 SOIL SAMPLING

Soil samples were collected by driving an 18-inch-by-2-inch-diameter California-modified split-spoon sampler containing 6-inch brass or stainless steel sleeves ahead of the augers into undisturbed soil. The samples were examined for soil characteristics and screened in the field with an organic vapor analyzer (OVA) to determine the relative hydrocarbon content. The soils are described and the OVA readings are recorded on the soil boring logs presented in Appendix D. Selected soil samples were sealed with Teflon tape, capped, labeled, placed in a cooler with ice, and submitted to a state-certified laboratory for analysis.

3.3 GROUNDWATER MONITORING WELL INSTALLATIONS

The borings were completed as groundwater monitoring wells. The wells were completed in accordance with ETIC's protocols (Appendix C) and the well installation requirements issued by the Alameda County Public Works Agency. The well permits are included in Appendix B. Well construction details are summarized in Table 3 and are shown on the soil boring logs provided in Appendix D.

The wells were constructed with 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) blank well casing and screened with 0.010-inch machine-slotted Schedule 40 PVC casing. The well details,

including screen placement, are provided on the boring logs in Appendix D and are summarized in Table 3. A filter pack of #2/12 sand was placed from the total depth of each boring to approximately 0.5 feet above the top of the screened interval of each well. The wells were then sealed with a 0.5-foot layer of hydrated bentonite chips, followed by neat cement grout to just below ground surface.

3.4 WELL DEVELOPMENT

The wells were developed on 9 July 2004. The wells were surged for approximately 15 minutes using a 2-inch surge block and then purged with a submersible pump. At least 3 casing volumes of water was purged from each well. Well development procedures are described in Appendix C. Field data recorded during development are presented in Appendix E.

3.5 GROUNDWATER SAMPLING

Groundwater samples were collected from the wells on 13 August 2004 during the third quarter groundwater monitoring event. The wells were gauged for depth to water with a water level meter. WaTerra tubing and check valves were installed. The wells were then purged of 3 casing volumes of water and groundwater samples were collected using the WaTerra system. Groundwater pH, temperature, and electrical conductivity were monitored during purging. The samples were submitted to a state certified laboratory for analysis. The groundwater monitoring and sampling procedures are described in Appendix C. Field data recorded during sampling are presented in Appendix E.

3.6 SURVEYING OF GROUNDWATER MONITORING WELLS

On 12 July 2004, the top of casing elevation of each well was surveyed by Morrow Surveying, a licensed land surveyor. The top of casing elevations for all of the wells are listed in Table 3. The surveyor's report is provided in Appendix F.

3.7 WASTE CONTAINMENT AND DISPOSAL

The soil generated during drilling activities was collected in 55-gallon drums and temporarily stored on the site. Soil samples were collected from the drums, submitted to TestAmerica, Inc., a California state-certified laboratory in Nashville, Tennessee, composited by the laboratory, and analyzed for TPH-g, BTEX, and total lead in order to characterize the soil for proper disposal. The laboratory analytical report and chain-of-custody documentation are included in Appendix G. The soil was removed from the site on 30 July 2004 and transported to an ExxonMobil-approved facility. Waste documentation is included in Appendix H.

Equipment rinsate water was placed in 55-gallon drums. The water was removed from the site on 11 August 2004 and transported to an ExxonMobil-approved facility.

Water generated during well development and well sampling was removed directly from the site on 9 July 2004 and 13 August 2004, respectively, and transported to an ExxonMobil-approved facility. Waste documentation is included in Appendix H.

4. RESULTS

4.1 SITE GEOLOGY AND HYDROGEOLOGY

Soils encountered during the drilling of the borings were generally consistent with those observed in previous borings at the site. The majority of the native soils encountered during drilling generally consist of silt, clayey silt, clay, and silty clay down to 20 feet bgs, the maximum explored depth. Lenses of strongly cemented silt were encountered in the borings. Detailed soil descriptions are presented on the boring logs in Appendix D.

On 13 August 2004, water levels in the wells were measured for the third quarter monitoring event. The depths to water in wells MW1 through MW4 were 7.32 feet, 6.96 feet, 5.36 feet, and 6.10 feet below the top of casing, respectively.

4.2 SOIL SAMPLE ANALYTICAL METHODS AND RESULTS

Selected soil samples were submitted to TestAmerica, Inc. in Nashville, Tennessee, and analyzed for TPH-g and TPH-d by EPA Method 8015B, BTEX by EPA Method 8021B, and MTBE by EPA Method 8260B. Analytical results are summarized in Table 1. The laboratory analytical reports and chain-of-custody documentation are included in Appendix G.

- Benzene was detected at a maximum concentration of 2.21 mg/kg in MW3 (8-8.5 feet bgs), and was not detected above laboratory reporting limits in borings MW1, MW2, and MW4.

- TPH-g was detected at a maximum concentration of 1,400 mg/kg in MW3 (8-8.5 feet bgs), and was not detected above laboratory reporting limits in borings MW1, MW2, and MW4.

- TPH-d was detected in MW3 at 5-5.5 feet bgs at a concentration of 18.1 mg/kg, and was not detected above laboratory reporting limits at any other depth in MW3 or in any other boring.

- MTBE was detected at a maximum concentration of 0.0024 mg/kg in MW4 (11.5-12 and 14.5-15 feet bgs), and was not detected above laboratory reporting limits in any other boring.

4.3 GROUNDWATER SAMPLE ANALYTICAL METHODS AND RESULTS

Groundwater samples were collected from the wells during the third quarter groundwater monitoring event. The samples were submitted to TestAmerica, Inc. in Nashville, Tennessee, and analyzed for TPH-g and TPH-d by EPA Method 8015B, BTEX by EPA Method 8021B, and MTBE by EPA Method 8260B. Analytical results are summarized in Figure 3 and Table 4. The laboratory analytical reports and chain-of-custody documentation are included in Appendix G.

- Benzene was detected at a concentration of 100 µg/L in groundwater collected from well MW3 and was not detected above laboratory reporting limits in wells MW1, MW2, and MW4.

- TPH-g was detected at a concentration of 1,440 µg/L in MW3. TPH-g was not detected above laboratory reporting limits in wells MW1, MW2, and MW4.

- TPH-d was detected at concentrations of 71 µg/L, 57 µg/L, 352 µg/L, and 72 µg/L in wells MW1, MW2, MW3, and MW4, respectively.

- MTBE was detected at concentrations of 2.80 µg/L in MW4 and 1.20 µg/L in well MW1. MTBE was not detected above laboratory reporting limits in groundwater collected from MW2 and MW3.

5. SUMMARY

Between 23 and 25 June 2004, ETIC observed the installation of three onsite groundwater monitoring wells (MW1, MW2, MW3) at former Mobil Station 04-334, located at 2492 Castro Valley Boulevard, Castro Valley, California, and one offsite groundwater monitoring well (MW4) located at 2495 Castro Valley Boulevard. The wells were installed as 2-inch monitoring wells.

Soils encountered during the drilling of the borings were generally consistent with those observed in previous borings at the site. Soils encountered in the borings consisted primarily of silt and clay down to 20 feet bgs, the total depth explored. Lenses of strongly cemented silt were encountered in the borings.

Soil samples were collected and analyzed for TPH-g, TPH-d, BTEX, and MTBE. The maximum concentrations of benzene, TPH-g, TPH-d, and MTBE were detected at 2.21 mg/kg in MW3 (8-8.5 feet bgs), at 1,400 mg/kg in MW3 (8-8.5 feet bgs), at 18.1 mg/kg in MW3 (5-5.5 feet bgs), and at 0.0024 mg/kg in MW4 (11.5-12 and 14.5-15 feet bgs), respectively.

Groundwater samples were collected from the wells on 13 August 2004 during the third quarter monitoring event. The samples were analyzed for TPH-g, TPH-d, BTEX, and MTBE. Benzene was detected at 100 µg/L in well MW3, and TPH-g and TPH-d were detected at maximum concentrations of 1,440 µg/L and 352 µg/L, respectively, in MW3. MTBE was detected at a maximum concentration of 2.80 µg/L in well MW4.

The newly installed wells were incorporated into a quarterly groundwater monitoring program for the site and will be sampled next during the fourth quarter of 2004. A groundwater monitoring report for the third quarter sampling event will be submitted under separate cover.

REFERENCES

Alisto (Alisto Engineering Group). 1994. Workplan for Preliminary Site Investigation, Former Mobil Oil Corporation Station 04-334. Alisto, Walnut Creek, California. 3 February.

Alton (Alton Geoscience). 1997. Site Assessment Workplan, Former Mobil Station 04-334. Alton, Livermore, California. 17 July.

DWR (California Department of Water Resources). 1975. California's Ground Water, Bulletin No. 118. September.

ETIC (ETIC Engineering, Inc.). 2004. Subsurface Investigation Report, Former Mobil Station 04-334, 2492 Castro Valley Boulevard, Castro Valley, California. ETIC, Pleasant Hill, California. February.

Judd Hall and Associates. 1983. Backfill of Tank Excavation at 2492 Castro Valley Boulevard, Alameda County, California. Judd Hall and Associates, Hayward, California. 15 November.

TRC (TRC Alton Geoscience). 1999. Initial Site Assessment Report, Former Mobil Station 04-334, 2492 Castro Valley Boulevard, Castro Valley, California. TRC, Concord, California. 3 September.

TRC. 2003. Site Assessment Workplan, Former Mobil Station 04-334, 2492 Castro Valley Boulevard, Castro Valley, California. TRC, Concord, California. 16 May.

(Map Source: USGS Topography Map)

ETIC ENGINEERING

SITE LOCATION AND TOPOGRAPHY MAP
FORMER MOBIL STATION 04-334
2492 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

FIGURE: 1

FILENAME: 10P100704.DWG 07/28/04

LEGEND:
- Former Thrifty Oil Station Groundwater Monitoring Well
- Soil Boring
- Groundwater Monitoring Well

Trash Enclosure
Existing Jiffy Lube Building
Former Used-Oil UST
Former Mobil Station Building
Former Pump Islands
Former USTs
Big-O Tires
STANTON AVENUE
76 Station (Former Thrifty Oil Station)
Current and Former USTs
Canopy and Pump Islands
CASTRO VALLEY BOULEVARD
NORTHRIDGE AVENUE
Parking Lot
Wendy's Restaurant
Castro Valley Lumber Company

AB1 AB2 AB3 AB4 AB5
SB1 SB2 SB3 SB4 SB5 SB6 SB7
MW1 MW2 MW3 MW4
RE1 RE2 RE3 RE4 RE5 RE6 RE7
PW1 PW2
RS8 RS9 RS10

N

0 15 30
Scale (feet)

FILENAME: SITEPLAN.DWG 02/16/04

ETIC ENGINEERING

SITE PLAN
FORMER MOBIL STATION 04-334
2492 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

FIGURE: **2**

LEGEND:

- Former Thrifty Oil Station
- Groundwater Monitoring Well
- Soil Boring
- Groundwater Monitoring Well
- (166.55) Groundwater Elevation (feet)
- TPH-g Total Petroleum Hydrocarbons As Gasoline
- TPH-d Total Petroleum Hydrocarbons as Diesel
- MTBE Methyl T-butyl Ether
- * Not Used To Determine Gradient

GW Groundwater Flow Direction
Gradient = 0.10

STANTON AVENUE

CASTRO VALLEY BOULEVARD

NORTHRIDGE AVENUE

76 Station
(Former Thrifty
Oil Station)

Current and
Former USTs

Canopy and
Pump Islands

Existing
Jiffy Lube
Building

Trash
Enclosure

Former
Used-Oil
UST

Former
USTs

Former Mobil
Station Building

Former
Pump Islands

Big-O
Tires

Castro Valley
Lumber
Company

Parking
Lot

Wendy's
Restaurant

RE1, RE2, RE3, RE4, RE5, RE6, RE7, PW1, PW2

RS8, RS9, RS10

AB1, AB2, AB3, AB4, AB5

SB1, SB2, SB3, SB4, SB5, SB6, SB7

MW1 (165.91)

MW2 (166.67)

MW3 (166.55)

MW4 (164.38)*

Benzene	100
Toluene	2.0
Ethylbenzene	187
Xylenes	59.6
TPH-g	1,440
TPH-d	352
MTBE (8260)	<0.5

Benzene	<0.5
Toluene	0.7
Ethylbenzene	<0.5
Xylenes	1.0
TPH-g	<50
TPH-d	71
MTBE (8260)	1.20

Benzene	<0.5
Toluene	0.8
Ethylbenzene	<0.5
Xylenes	1.0
TPH-g	<50
TPH-d	57
MTBE (8260)	<0.5

Benzene	<0.5
Toluene	0.8
Ethylbenzene	<0.5
Xylenes	1.1
TPH-g	<50
TPH-d	72
MTBE (8260)	2.80

N

0 15 30
Scale (feet)

Note:
Concentrations In Micrograms Per Liter (ug/L).

FILENAME: 302004.DWG 09/17/04

ETIC ENGINEERING

SITE PLAN SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
FORMER MOBIL STATION 04-334
2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA
13 AUGUST 2004

FIGURE: 3

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS,
FORMER MOBIL STATION 04-334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Sample ID	Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	TPH-g (mg/kg)	TPH-d (mg/kg)	MTBE (8021B) (mg/kg)	MTBE (8260B) (mg/kg)	TRPH (mg/kg)	CAM-17 (200.7) (mg/kg)	HVOC (8010) (mg/kg)
AB1	03/04/99	4-5	ND	ND	0.010	ND	3.2	ND	ND	--	--	--	--
AB1	03/04/99	10-11	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
AB1	03/04/99	15-16	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
AB1	03/04/99	19-20	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
AB2	03/04/99	4-5	ND	ND	ND	ND	ND	ND	ND	--	ND	*	ND
AB2	03/04/99	10-11	ND	ND	ND	ND	ND	ND	ND	--	13	*	ND
AB2	03/04/99	15-16	ND	ND	ND	ND	ND	ND	ND	--	ND	*	ND
AB3	03/04/99	4-5	ND	0.09	1.9	ND	280	170	0.4	--	--	--	--
AB3	03/04/99	10-11	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
AB3	03/04/99	15-16	ND	ND	ND	ND	ND	10	ND	--	--	--	--
AB4	03/04/99	4-5	0.2	ND	18	62	1,100	100	ND	--	--	--	--
AB4	03/04/99	10-11	3.4	18	38	170	2,600/	700	8	ND	--	--	--
AB4	03/04/99	15-16	0.005	0.011	0.038	0.12	2.8	ND	ND	--	--	--	--
AB5	03/04/99	4-5	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
AB5	03/04/99	10-11	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
AB5	03/04/99	15-16	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
SB1	11/12/03	5.5-6	<0.001	<0.001	<0.001	<0.001	<5.05	<9.88	--	<0.002	--	--	--
SB1	11/12/03	11-11.5	0.002	0.0022	<0.001	<0.001	<4.88	<10.1	--	<0.002	--	--	--
SB1	11/12/03	14.5-15	0.0027	0.0061	<0.001	0.0029	<4.98	<10.1	--	<0.002	--	--	--
SB1	11/12/03	17.5-18	0.0051	0.0112	0.0011	0.0039	<5.06	<10	--	<0.002	--	--	--
SB2	11/12/03	5.5-6	<0.001	<0.001	<0.001	<0.001	<4.93	<10	--	<0.002	47.4	--	--
SB2	11/12/03	10-10.5	0.0013	0.0023	<0.001	0.0018	<5.07	<9.96	--	<0.002	30.3	--	--
SB3	11/12/03	5-5.5	0.131	0.0027	0.0456	0.0153	6.19	<9.92	--	<0.002	--	--	--
SB3	11/12/03	10.5-11	2.67	0.782	19.6	32	1,960/	876	--	<0.0502	--	--	--
SB3	11/12/03	15.5-16	0.0315	0.0043	0.0593	0.09	5.49	12	--	<0.002	--	--	--
SB3	11/12/03	16.5-17	1.83	0.529	8.13	14.8	932/	178	--	<0.002	--	--	--
SB3	11/12/03	19.5-20	0.004	0.0042	0.0017	0.0037	<4.97	13.9	--	<0.002	--	--	--
SB4	11/12/03	Boring terminated at 2 feet bgs. No soil samples collected.											
SB5	11/13/03	8.5-9	<0.001	<0.001	<0.001	<0.001	<4.95	<9.84	--	<0.002	--	--	--
SB5	11/13/03	11.5-12	0.0039	0.0174	0.0098	0.018	14.2	<10.1	--	<0.002	--	--	--
SB5	11/13/03	15.5-16	<0.001	<0.001	<0.001	<0.001	<5.02	<10.1	--	<0.002	--	--	--
SB5	11/13/03	16.5-17	0.0014	<0.001	<0.001	<0.001	<5.03	<10.2	--	<0.002	--	--	--
SB6	11/13/03	8.5-9	0.0015	<0.001	0.0011	0.0014	<5.01	<10	--	<0.002	--	--	--
SB6	11/13/03	11-11.5	0.0028	0.0016	<0.001	<0.001	<5.02	<9.84	--	<0.002	--	--	--
SB6	11/13/03	14.5-15	0.0019	0.0012	<0.001	<0.001	<4.96	<10	--	<0.002	--	--	--
SB7	11/13/03	6.5-7	<0.001	<0.001	<0.001	<0.001	<4.98	<10.1	--	<0.002	--	--	--
SB7	11/13/03	9-9.5	<0.001	<0.001	<0.001	<0.001	<5.07	<10	--	<0.002	--	--	--
SB7	11/13/03	16-16.5	<0.001	0.0011	<0.001	<0.001	<4.97	<9.65	--	<0.002	--	--	--
MW1	**06/23/04**	**5-5.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<4.97**	**<10**	--	**<0.002**	--	--	--
MW1	**06/24/04**	**8.5-9**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<4.98**	**<10.2**	--	**<0.002**	--	--	--
MW1	**06/24/04**	**16.5-17**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<4.96**	**<10.1**	--	**<0.002**	--	--	--
MW1	**06/24/04**	**19.5-20**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<5.04**	**<10.1**	--	**<0.002**	--	--	--
MW2	**06/23/04**	**5-5.5**	**<0.001**	**0.0018**	**<0.001**	**0.0039**	**<4.96**	**<9.84**	--	**<0.002**	--	--	--
MW2	**06/25/04**	**9-9.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<5.01**	**<10.2**	--	**<0.002**	--	--	--
MW2	**06/25/04**	**13-13.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<5.05**	**<10**	--	**<0.002**	--	--	--
MW2	**06/25/04**	**16.5-17**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<4.97**	**<9.8**	--	**<0.002**	--	--	--
MW2	**06/25/04**	**19.5-20**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<5.04**	**<10**	--	**<0.002**	--	--	--
MW3	**06/23/04**	**5-5.5**	**0.0324**	**0.0184**	**3.11**	**2.22**	**12.7**	**18.1**	--	**<0.0996**	--	--	--
MW3	**06/25/04**	**8-8.5**	**2.21**	**1.48**	**27.4**	**5.49**	**1,400/**	**<10**	--	**<0.002**	--	--	--
MW3	**06/25/04**	**10.5-11**	**0.003**	**0.0014**	**0.001**	**<0.001**	**<4.95**	**<9.88**	--	**<0.002**	--	--	--
MW3	**06/25/04**	**12-12.5**	**0.0061**	**0.0059**	**0.0122**	**0.0111**	**<4.96**	**<10.1**	--	**<0.002**	--	--	--

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS,
FORMER MOBIL STATION 04-334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Sample ID	Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	TPH-g (mg/kg)	TPH-d (mg/kg)	MTBE (8021B) (mg/kg)	MTBE (8260B) (mg/kg)	TRPH (mg/kg)	CAM-17 (200.7) (mg/kg)	HVOC (8010) (mg/kg)
MW3	**06/25/04**	**17-17.5**	**0.0012**	**<0.001**	**<0.001**	**<0.001**	**<5**	**<10.1**	**--**	**<0.002**	**--**	**--**	**--**
MW3	**06/25/04**	**19-19.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<5.03**	**<9.92**	**--**	**<0.002**	**--**	**--**	**--**
MW4	**06/24/04**	**11.5-12**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<4.97**	**<9.88**	**--**	**0.0024**	**--**	**--**	**--**
MW4	**06/24/04**	**13-13.5**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<4.99**	**<10**	**--**	**<0.002**	**--**	**--**	**--**
MW4	**06/24/04**	**14.5-15**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<4.99**	**<10.1**	**--**	**0.0024**	**--**	**--**	**--**

* TRC's Initial Site Assessment report, dated 3 September 1999, states "Results were below preliminary remediation goals for residential soils as required by the USEPA Region 9".

TPH-g Total Petroleum Hydrocarbons as gasoline.
TPH-d Total Petroleum Hydrocarbons as diesel.
TRPH Total Recoverable Petroleum Hydrocarbons.
MTBE Methyl tertiary butyl ether.
HVOC Halogenated Volatile Organic Compounds.
ND Not detected.
-- Not analyzed.

bgs Below ground surface.
mg/kg Milligrams per kilogram.

TABLE 2 GROUNDWATER SAMPLE ANALYTICAL RESULTS FOR TEMPORARY BORINGS,
FORMER MOBIL STATION 04-334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Sample ID	Date	Depth (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	MTBE (8021B) (µg/L)	MTBE (8260B) (µg/L)	TRPH (µg/L)	HVOC (8010) (µg/L)
AB1	03/05/99	8.7 [a]	ND	ND	ND	ND	ND	450	ND	--	--	--
AB2	03/05/99	4.2 [a]	ND	ND	0.8	ND	ND	730	ND	--	1.0	ND
AB3	03/05/99	8.3 [a]	210	7.5	660	34	4,300	2,100	ND	--	--	--
AB4	03/05/99	3.2 [a]	100	43	170	260	2,900	5,500	ND	--	--	--
AB5	03/05/99	9.65 [a]	ND	ND	1.9	ND	ND	1,600	ND	--	--	--
SB1	11/12/03	Boring dry. No groundwater samples were collected.										
SB2	11/13/03	2-17 [b]	<0.5	<0.5	<0.5	<0.5	<50	127	--	2.1	<100	--
SB3	11/12/03	0-12 [b]	1,170	65.0	1,780	2,240	46,700	13,400	--	<0.5	--	--
SB4	11/12/03	Boring terminated at 2 feet bgs. No groundwater samples were collected.										
SB5	11/13/03	0-12 [b]	6.30	2.6	2.8	1.4	760	173	--	<0.5	--	--
SB6	11/13/03	0-12 [b]	1.90	6.3	3.6	4.3	1,650	816	--	<0.5	--	--
SB7	11/13/03	Boring dry. No groundwater samples were collected.										

a Depth to water.
b Interval of screen placed in boring.

TPH-g Total Petroleum Hydrocarbons as gasoline.
TPH-d Total Petroleum Hydrocarbons as diesel.
TRPH Total Recoverable Petroleum Hydrocarbons.
MTBE Methyl t-butyl ether.
HVOC Halogenated Volatile Organic Compounds.
ND Not detected.
-- Not analyzed.

bgs Below ground surface.
µg/L Micrograms per liter.

TABLE 3 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04-334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well Number		Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
MW1	a	06/24/04	173.23	PVC	20	20	8.25	2	5 - 20	0.010	4.5 - 20	#2/12 Sand
MW2	a	06/25/04	173.63	PVC	20	20	8.25	2	5 - 20	0.010	4.5 - 20	#2/12 Sand
MW3	a	06/25/04	171.91	PVC	20	20	8.25	2	5 - 20	0.010	4.5 - 20	#2/12 Sand
MW4	a	06/24/04	170.48	PVC	15	14	8.25	2	4 - 14	0.010	3.5 - 15	#2/12 Sand

a Well surveyed on 12 July 2004 by Morrow Surveying.

PVC Polyvinyl chloride.
TOC Top of casing.

TABLE 4 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04-334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well ID		Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentration (µg/L)						
						TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW1	**a**	**08/13/04**	**173.23**	**7.32**	**165.91**	**<50**	**71**	**<0.5**	**0.7**	**<0.5**	**1.0**	**1.20**
MW2	**a**	**08/13/04**	**173.63**	**6.96**	**166.67**	**<50**	**57**	**<0.5**	**0.8**	**<0.5**	**1.0**	**<0.5**
MW3	**a**	**08/13/04**	**171.91**	**5.36**	**166.55**	**1,440**	**352**	**100**	**2.0**	**187**	**59.6**	**<0.5**
MW4	**a**	**08/13/04**	**170.48**	**6.10**	**164.38**	**<50**	**72**	**<0.5**	**0.8**	**<0.5**	**1.1**	**2.80**

a Top-of-casing elevation surveyed by Morrow Surveying on 12 July 2004.

Depth-to-water-level measurements in feet from top-of-casing.

TPH-g Total Petroleum Hydrocarbons as gasoline.
TPH-d Total Petroleum Hydrocarbons as diesel.
MTBE Methyl tertiary butyl ether.

µg/L Micrograms per liter.

Appendix A

Regulatory Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

FILE COPY

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

RO0000386

September 12, 2003

Mr. Gene Ortega
Exxon Mobil
2300 Clayton Rd, Suite 1250
Concord, CA 94520

RE: Former Mobil Station 04-334 at 2492 Castro Valley Blvd, Castro Valley, CA

Dear Mr. Ortega:

I have completed review of TRC's June 2003 *Site Assessment Workplan* prepared for the above referenced site. TRC proposed a phased approach to assess contaminants in soil and groundwater beneath the site. The first phase includes the advancement of seven direct-push soil borings to approximate 20 feet bgs. Soil and groundwater data from this phase will be used to determine the optimum number, locations, and depths of monitoring wells. The workplan is acceptable with the following changes/additions:

- Based on the southeasterly groundwater flow direction at 2504 Castro Valley Blvd, the borehole proposed in the vicinity of the former dispenser island should be moved approximately 15 to 20 feet southeast (along Castro Valley Blvd).
- A Phase one report is due for review within 60 days upon completion of field work. This report should include geologic cross sections and a discussion on the reasoning for the proposed groundwater monitoring well locations and screen intervals. This report is due before phase two is implemented.
- A conduit survey should be performed to help determine placement of groundwater monitoring wells.

Phase one should be implemented within 60 days of the date of this letter, **or by November 17, 2003.** Please provide at least 72 hours advance notice of field activities. If you have any questions, I can be reached at (510) 567-6762 or by email at echu@co.alameda.ca.us.

eva chu
Sr Environmental Health Specialist

c: Donna Drogos, Supervisor LOP
Steve Kemnitz, TRC, 5052 Commercial Circle, Concord, CA 94520

mobile4-334-1

FILE COPY

From: "Chu, Eva, Env. Health" <eva.chu@acgov.org>
To: 'Bryan Campbell' <BCampbell@eticeng.com>
Date: 5/5/04 11:02AM
Subject: RE: 04-334: Offsite Well Location

Hi Bryan,

The new well location is fine. And an extension to June 30, 2004 is also acceptable. Please provide at least 72 hours advance notice of field activities.

eva

-----Original Message-----
From: Bryan Campbell [mailto:BCampbell@eticeng.com]
Sent: Monday, May 03, 2004 10:10 AM
To: eva.chu@acgov.org
Cc: Christa Marting; Doug Oram; Jerry Mitchell; Joe Muehleck; Mark Peterson; Tracy Iob; gene.n.ortega@exxonmobil.com
Subject: 04-334: Offsite Well Location

Eva,

I sent this email on 4/29/04 but I am not sure if it went through to you. I am resending it.

Per our conversation, attached is a site map showing the new proposed location of the offsite well. The installation of the offsite well, along with three onsite wells, was approved in your letter dated 5 March 2004. The original well location was in the sidewalk near the Castro Valley Lumber Company building. We have determined that multiple subsurface utilities are located in the vicinity of the original location and the requirements of the Alameda County Public Works Agency to install a well in the sidewalk may take some time to complete.

As such, we have selected a new location for the offsite well as shown in the attached site map. The new location is on the Castro Valley Lumber Company property and we have obtained an access agreement with the owners for the installation of the well. We are planning on confirming that the well is on the property owned by the Castro Valley Lumber Company by having the nearby property lines surveyed.

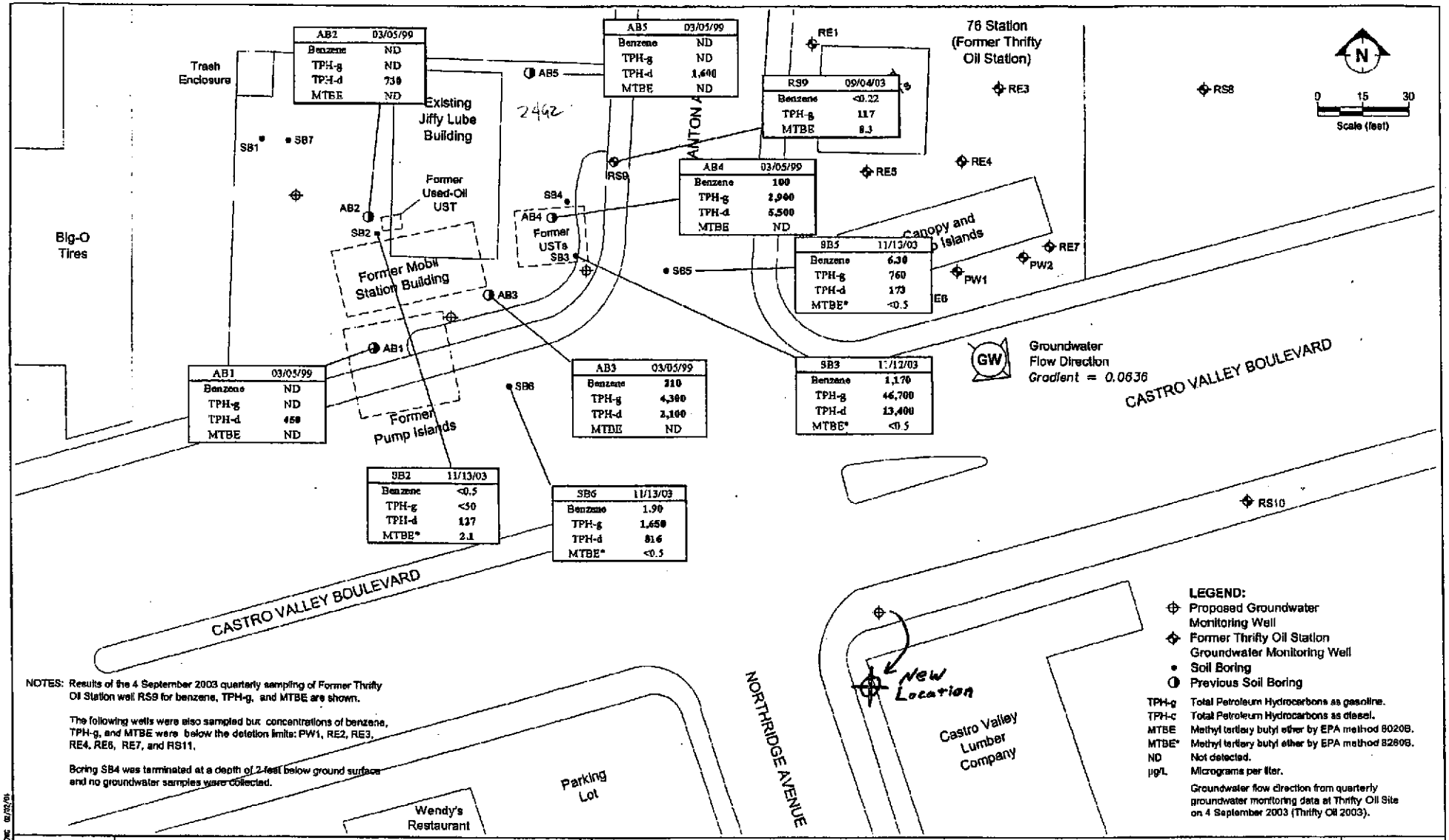
We would like additional time to prepare for the well installations including the surveying of the Castro Valley Lumber property lines, obtaining encroachment permits as necessary, providing notifications to the property owners, and scheduling of the drill rig.

We would like your approval of the new proposed offsite well location. We would like to know if extending the due date for the well installations to 30 June 2004 is acceptable. Please let me know. Thank you.

****

CORRESPONDENCE
RECEIVED

Bryan Campbell
Geologist
ETIC Engineering, Inc.
2285 Morello Avenue, Pleasant Hill, CA 94523
Phone: 925-602-4710 ext. 24, Fax: 925-602-4720
bcampbell@eticeng.com
****



NOTES: Results of the 4 September 2003 quarterly sampling of Former Thrifty Oil Station well RS9 for benzene, TPH-g, and MTBE are shown.

The following wells were also sampled but concentrations of benzene, TPH-g, and MTBE were below the detetion limits: PW1, RE2, RE3, RE4, RE6, RE7, and RS11.

Boring SB4 was terminated at a depth of 2 feet below ground surface and no groundwater samples were collected.

LEGEND:

- Proposed Groundwater Monitoring Well
- Former Thrifty Oil Station Groundwater Monitoring Well
- Soil Boring
- Previous Soil Boring

TPH-g	Total Petroleum Hydrocarbons as gasoline.
TPH-d	Total Petroleum Hydrocarbons as diesel.
MTBE	Methyl tertiary butyl ether by EPA method 8020B.
MTBE*	Methyl tertiary butyl ether by EPA method 8260B.
ND	Not detected.
µg/L	Micrograms per liter.

Groundwater flow direction from quarterly groundwater monitoring data at Thrifty Oil Site on 4 September 2003 (Thrifty Oil 2003).

ETIC ENGINEERING

SITE PLAN SHOWING GROUNDWATER SAMPLE ANALYTICAL RESULTS AND PROPOSED WELL LOCATIONS
FORMER MOBIL STATION 04-334
2492 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

FIGURE: 6

FILENAME: SITEPLANOG 08/22/03

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

FILE COPY

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

RO0000386

March 5, 2004

RECEIVED
MAR 12 2004
ETIC ENGINEERING

Mr. Gene Ortega
Exxon Mobil
25A Crescent Dr #407
Pleasant Hill, CA 94523

RE: Monitoring Well Installation at 2492 Castro Valley Bl, Castro Valley, CA

Dear Mr. Ortega:

I have completed review of ETIC's February 2004 *Subsurface Investigation Report* prepared for the above referenced site. In November 2003, seven soil borings were advanced to better characterize subsurface conditions at the site. Based on the results of the investigation, in conjunction with review of environmental investigations conducted at an adjacent site and completion of a conduit survey, the locations of four groundwater monitoring wells were proposed. The locations of the proposed wells are acceptable with the following comment:

- Well screen intervals are anticipated to be from approximately 5 to 20 feet bgs. Be advised that well screens should be kept short so groundwater samples will be representative of actual site conditions (that is, not diluted). A 15-foot screen may be excessive. Please use best professional judgment in the field.

Groundwater monitoring wells should be installed within 60 days of the date of this letter, **or by May 10, 2004.** Please provide 72 hours advance notice of field activities. If you have any questions, I can be reached at (510) 567-6762 or by email at eva.chu@acgov.org.

eva chu
Hazardous Materials Specialist

c: Donna Drogos, Program Manager
Bryan Campbell, ETIC Engineering, 2285 Morello Ave, Pleasant Hill, CA 94523

mobil4-334-2

CORRESPONDENCE
RECEIVED

Appendix B

Permits

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT
FORMER MOBIL STATION 04-334
2492 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CA 94546

CLIENT
Name EXXON MOBIL CORPORATION
Address 25A CRESCENT DR. #407 Phone (925) 246-8747
City PLEASANT HILL Zip 94523

APPLICANT
Name ETIC ENGINEERING, INC.
Fax (925) 602-4720
Address 2285 MORELLO AVENUE Phone (925) 602-4710
City PLEASANT HILL Zip 94523

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☑	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☑
Cable	☐	Other	☐		

DRILLER'S NAME CASCADE DRILLING, INC.
DRILLER'S LICENSE NO. C57 - 717510

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 20 ft.
Surface Seal Depth 5 ft. Owner's Well Number MW1

GEOTECHNICAL PROJECTS
Number of Borings ____ Maximum
Hole Diameter ____ in. Depth ____ ft.

STARTING DATE 4.27.2004
COMPLETION DATE 4.27.2004
EXTENDED TO 6.25.2004 per conversation w/ James Yoo (6.17.04 1630)

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] DATE 3/31/04
PLEASE PRINT NAME Mark C. Peterson

Rev. 9-18-02

FOR OFFICE USE

PERMIT NUMBER W04-0454
WELL NUMBER
APN

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS - MW#1

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [signature] DATE 4-27-04

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT
FORMER MOBIL STATION C4-334
2492 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CA 94546

CLIENT
Name EXXON MOBIL CORPORATION
Address 25A CRESCENT DR. #407 Phone (925) 246-8747
City PLEASANT HILL Zip 94523

APPLICANT
Name ETIC ENGINEERING, INC.
Fax (925) 602-4720
Address 2285 MORELLO AVENUE Phone (925) 602-4710
City PLEASANT HILL Zip 94523

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☑	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other _____	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☑
Cable	☐	Other	☐		

DRILLER'S NAME CASCADE DRILLING, INC.
DRILLER'S LICENSE NO. C57-717510

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 20 ft.
Surface Seal Depth 5 ft. Owner's Well Number MW2

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE 4-27-2004
COMPLETION DATE 4-29-2004
EXTENDED TO 6-25-2004 per conversation w/ James Yoo (6-17-04, 1630)

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] DATE 3/31/04
PLEASE PRINT NAME Mark C. Peterson

Rev.9-18-02

FOR OFFICE USE

PERMIT NUMBER W04-0455
WELL NUMBER
APN

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS — MW#2

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [signature] DATE 4/27/04

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939
APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT
FORMER MOBIL STATION 04-334
2492 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CA 94546

CLIENT
Name EXXON MOBIL CORPORATION
Address 25A CRESCENT DR. #407 Phone (925) 246-8747
City PLEASANT HILL Zip 94523

APPLICANT
Name ETIC ENGINEERING, INC.
Fax (925) 602-4720
Address 2285 MORELLO AVENUE Phone (925) 602-4910
City PLEASANT HILL Zip 94523

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☑	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☑
Cable	☐	Other	☐		

DRILLER'S NAME CASCADE DRILLING, INC.
DRILLER'S LICENSE NO. C57-717510

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 20 ft.
Surface Seal Depth 5 ft. Owner's Well Number MW3

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE 4-27-2004
COMPLETION DATE 4-29-2004
EXTENDED TO 6-25-2004 per conversation with James Yoo (6-17-2004, 1630)
I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.
APPLICANT'S SIGNATURE [signature] DATE 3/31/04
PLEASE PRINT NAME Mark C. Peterson Rev 9-18-02

FOR OFFICE USE
PERMIT NUMBER W04-0456
WELL NUMBER _____
APN _____

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS — MW#1

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [signature] DATE 4/7/04

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT
FORMER MOBIL STATION 04-334
2492 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CA 94546

CLIENT
Name EXXON MOBIL CORPORATION
Address 25A CRESCENT DR. # 407 Phone (925) 246-8747
City PLEASANT HILL Zip 94523

APPLICANT
Name ETIC ENGINEERING, INC.
Fax (925) 602-4720
Address 2285 MORELLO AVENUE Phone (925) 602-4710
City PLEASANT HILL Zip 94523

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☑	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☑
Cable	☐	Other	☐		

DRILLER'S NAME CASCADE DRILLING, INC.
DRILLER'S LICENSE NO. C57-717510

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 20 ft.
Surface Seal Depth 5 ft. Owner's Well Number MW4

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE 4-27-2004
COMPLETION DATE 4-29-2004
EXTENDED TO 6-25-2004 per conversation with James Yoo (6-17-04, 1630)

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] DATE 3/31/04
PLEASE PRINT NAME Monte C. Peterson Rev.9-18-03

FOR OFFICE USE
PERMIT NUMBER W04-0457
WELL NUMBER _____
APN _____

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS MW#2

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [signature] DATE 4-29-04

Appendix C

Field Protocols

PROTOCOLS FOR WELL DRILLING, COMPLETION, AND DEVELOPMENT

SUBSURFACE CLEARANCE SURVEY PROCEDURES

Prior to drilling, the proposed locations of borings will be marked with white paint. Underground Service Alert (USA) will be contacted prior to subsurface activities and a "ticket" will be issued for this investigation. USA members will mark underground utilities in the delineated areas using standard color code identifiers.

Once USA has marked the site, all proposed borehole locations will be investigated by subsurface clearance surveys to identify possible buried hazards (pipelines, drums, tanks). Subsurface clearance surveys use several geophysical methods to locate shallow buried man-made objects. The geophysical methods include electromagnetic induction (EMI) profiling, ground penetrating radar (GPR), and/or magnetic surveying. The choice of methods depends on the target object and potential interference from surrounding features.

DRILLING

Prior to drilling, all boreholes will be cleared of underground utilities to a depth of at least 4 feet below ground surface (bgs) in "non-critical zones" and to 8 feet bgs in "critical zones". Critical zones are defined as locations that are within 10 feet from the furthest edge of any underground storage tank (UST), within 10 feet of the product dispenser islands, and the entire area between the UST field and the product dispenser islands. If only borings are being installed, an 8- to 12-inch-diameter circle will be cut in the surface cover at each boring location. If wells are being installed, a 10-inch circle to a 24-inch circle or a 2-foot by 2-foot square will be cut in the surface cover at each well location. A hole, greater than the diameter of the drilling tool being used, will then be cleared at each boring location, using a hand auger or vacuum excavation system. The vacuum system consists of a water lance, used to disturb native soil by injecting water into the soil, and a vacuum, used to remove the soil.

Boreholes are drilled with a truck-mounted rotary drill, using hollow-stem continuous-flight augers. The diameter of the augers is selected to provide an annular space between the boring wall and the well casing of no less than 2 inches.

All augers are pressure-washed or steam-cleaned before drilling begins and before each new borehole is drilled. All drill cuttings are either placed on and covered with plastic sheeting or contained in sealed 55-gallon drums. All fluids generated during cleaning of drilling equipment are contained in sealed 55-gallon drums. All waste generated during drilling activities is stored onsite until appropriate disposal is arranged. The drums are labeled with the site description (including owner's name) and date. The drill cuttings are disposed of at a proper facility based on results of soil sample analysis.

During drilling, an ETIC geologist generates a soil boring log for each borehole. The boring logs contain detailed geological information, including descriptions of the soils classified according to the Unified Soil Classification System (USCS), blow counts for soil sampling intervals, organic vapor analyzer (OVA) readings, relative moisture content of the soils, and initial and static water levels.

SOIL SAMPLING

Soil samples are collected using a 2-inch-diameter by 18- or 24-inch-long modified California split-spoon sampler containing three or four 6-inch-long brass or stainless steel liners. The sampler and liners are scrubbed in potable water and Alconox or equivalent detergent and rinsed with potable water after use at each sampling interval.

At each sample depth, the sampler is driven 18 or 24 inches ahead of the augers into undisturbed soil. When the sampler is retrieved, either the lowermost or the middle sample liner is removed and the ends of the tube are covered with aluminum foil or Teflon tape and sealed with plastic caps. The soil-filled liner is labeled with the borehole number, sample depth, site location, date, and time. The samples are placed in zip-lock bags and stored in a cooler containing ice.

Soil from one of the liners is removed and placed in a sealed plastic bag. The soil is scanned with an OVA equipped with a flame ionization detector (FID) or photoionization detector (PID), and the readings are noted on the soil boring logs. The soil from the remaining liner(s) is examined and classified according to the Unified Soil Classification System.

Soil samples are delivered, under chain of custody, to a laboratory certified by the California Department of Health Services (DHS) for analyses.

WELL INSTALLATION

The boreholes are completed as groundwater monitoring wells, vapor extraction wells, groundwater extraction wells, or air sparging wells. The wells are typically constructed by installing Schedule 40 PVC flush-threaded casing through the inner opening of the auger. The screened interval consists of slotted casing of the appropriate slot size and length placed at depths depending on soil conditions encountered during drilling and the depth to groundwater. A threaded end plug or a slip cap secured with a stainless steel screw is placed on the bottom of the well.

A filter pack of clean sand of appropriate size is placed in the annular space around the well screen to approximately 1 to 3 feet above the top of the screen. The sand is placed through the inner opening of the augers as they are slowly removed. A transitional seal is completed above the sand pack by adding 1 to 2 feet of bentonite pellets and hydrating them with water. A surface seal is then created by placing neat cement grout containing less than 5 percent bentonite from the top of the bentonite seal to just below the ground surface.

The well is finished at the surface with a slightly raised, traffic-rated, watertight steel traffic box set in concrete. The traffic box is secured with bolts and the casing is further secured with a locking well cap.

WELL DEVELOPMENT

The wells are developed no less than 72 hours after completion or prior to establishing the bentonite seal during the drilling activities. Development typically consists of surging the screened interval of the well with a flapper valve surge block of the same diameter as the well for approximately

10 minutes. The well is then purged with a vacuum truck and a dedicated PVC stinger or disposable tubing, an inertial pump, a submersible electric pump, a centrifugal pump, an air-lift pump, or a PVC bailer until at least 3 casing volumes are removed and the water is free of silt and apparent turbidity.

A record of the purging methods and volumes of water purged is maintained. All purge water is contained on the site in properly labeled 55-gallon drums. Purged water is transported to an appropriate treatment facility.

WELL SURVEY

The elevation of the top of the well casing is surveyed by a state licensed land surveyor. A small notch is cut in the top of the well casing to mark the survey point and establish the point used for all future water level measurements. A loop originating and ending at the datum is closed to ±0.01 feet according to standard methods.

PROTOCOLS FOR QUARTERLY GROUNDWATER MONITORING

GROUNDWATER GAUGING

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered "functionally dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

WELL PURGING

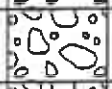
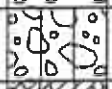
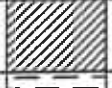
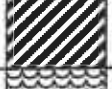
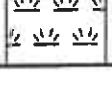
After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

GROUNDWATER SAMPLING

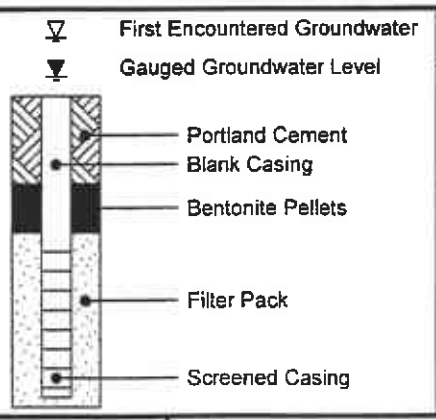
After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

Appendix D

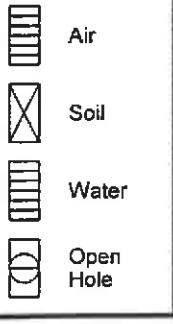
Boring Logs

MAJOR DIVISIONS			TYPICAL NAMES		
COARSE-GRAINED SOILS More than half is coarser than No. 200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve size	Clean gravels with little or no fines	GW		Well graded gravels with or without sand, little or no fines.
			GP		Poorly graded gravels with or without sand, little or no fines.
		Gravels with over 12% fines	GM		Silty gravels, silty gravels with sand.
			GC		Clayey gravels, clayey gravels with sand.
	SANDS more than half coarse fraction is smaller than No. 4 sieve size	Clean sands with little or no fines	SW		Well graded sands with or without gravel, little or no fines.
			SP		Poorly graded sands with or without gravels, little or no fines.
		Sands with over 12% fines	SM		Silty sands with or without gravel.
			SC		Clayey sands with or without gravel.
FINE-GRAINED SOILS More than half is finer than No. 200 sieve	SILTS AND CLAYS liquid limit 50% or less		ML		Inorganic silts and very fine sands, rock flour, silts with sands and gravels.
			CL		Inorganic clays of low to medium plasticity, clays with sands and gravels, lean clays.
			OL		Organic silts or clays of low plasticity.
	SILTS AND CLAYS liquid limit greater than 50%		MH		Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts.
			CH		Inorganic clays of high plasticity, fat clays
			OH		Organic clays or clays of medium to high plasticity.
HIGHLY ORGANIC SOILS			PT		Peat and other highly organic soils.

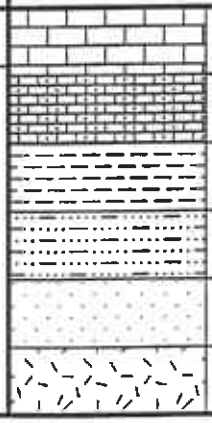
SYMBOLS



Samples



DRILL LOG ROCK TYPES



ETIC ENGINEERING

UNIFIED SOIL CLASSIFICATION SYSTEM DESCRIPTIONS AND SYMBOLS USED ON ETIC DRILL LOGS

ETIC ENGINEERING

LOG OF SOIL BORING: MW1

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: Cascade Drilling, Inc.

LICENSE NUMBER: C57-717510

CLIENT	SITE NUMBER	LOCATION
ExxonMobil	04-334	2492 Castro Valley Blvd, Castro Valley, CA

DRILLING AND SAMPLING METHODS: Vacuum cleared to 5.5 feet bgs. Drilled with CME 75 limited access drill rig with 8.25" O.D. hollow stem augers. Sampled with a 18" California Modified Split Spoon Sampler.

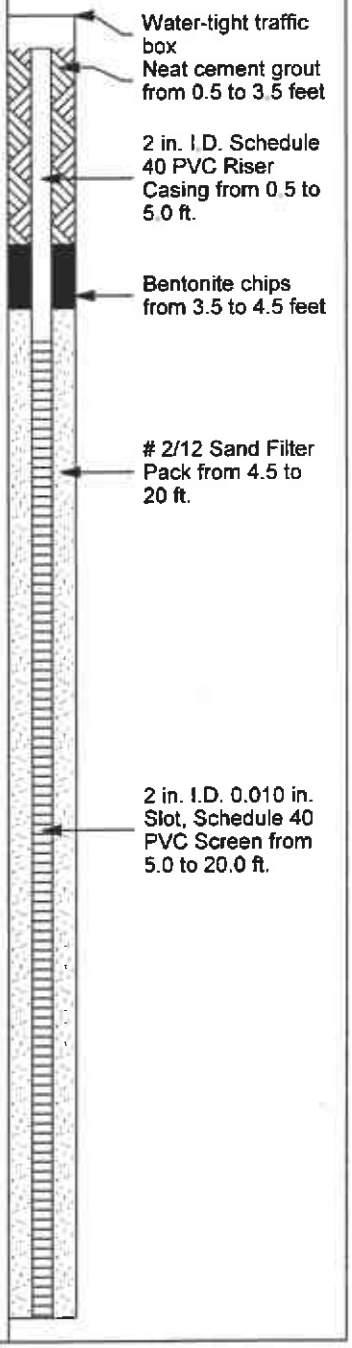
				START	FINISH
WATER LEVEL	▽ 20	▼ 7.6			
TIME	1541	0715		TIME 1315	TIME 1620
DATE	6/24/4	6/25/4		DATE 6/23/04	DATE 6/24/04
REFERENCE	GS	GS			

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: Tracy Iob

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION
				0	OL	Asphalt Soil fill with .75" gravels.
				1		SILTY CLAY, black (2.5/N), hard, medium plasticity, minor poorly sorted sand, dry.
				2		
				3		SILTY CLAY, black (2.5/N), firm, medium plasticity, minor poorly sorted sand, dry.
				4		
				5	CL	Color change to light green gray (10Y 7/1).
			1.3	6		
				7		
				8		
24	18	17 31	0.8	9		SILTY CLAY, very dark gray (2.5Y 3,1), firm, medium plasticity, minor strongly cemented silt and poorly sorted sand, dry.
		50/2"		10	ML	CLAYEY SILT, light olive brown (2.5Y 5/4), firm, medium plasticity, minor strongly cemented silt and poorly sorted sand, dry.
18	18	21 31		11		
		50/6"		12	ML	SILT, dark olive brown (2.5Y 3/3), fractured strongly cemented silt, moist to wet.
18	18	17 30 50	1.1			
18	18	37 44		13		CLAYEY SILT, light olive brown (2.5Y 5/4), hard, medium plasticity, minor stongly cemented silt and poorly sorted sand, dry.
		50/3"		14		
18	12	31 45 50		15		
18	12	36 50	1.4	16	ML	
				17		
18	6	29 43 50	1.7	18		
12	8	50/6"	6.6	19		Same as above, moist.
				▽ 20		Boring terminated at 20 feet bgs.

DETAILS



LOG OF SOIL BORING 334_2004.GPJ ETIC.GDT 10/5/04

ETIC ENGINEERING

LOG OF SOIL BORING: MW2

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: Cascade Drilling, Inc.

LICENSE NUMBER: C57-717510

CLIENT	SITE NUMBER	LOCATION
ExxonMobil	04-334	2492 Castro Valley Blvd, Castro Valley, CA

DRILLING AND SAMPLING METHODS: Vacuum cleared to 5 feet bgs. Drilled with CME 75 limited access drill rig with 8.25" O.D. hollow stem augers. Sampled with a 18" California Modified Split Spoon Sampler.

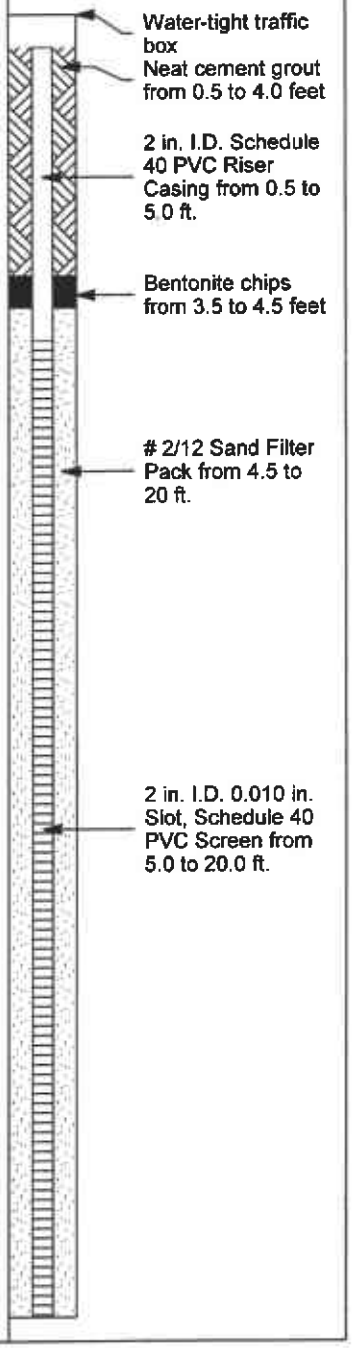
				START	FINISH
WATER LEVEL	▽ 16.5	▼ 11.75			
TIME	0820	1030		TIME 1445	TIME 0905
DATE	6/25/4	6/25/4		DATE 6/23/04	DATE 6/25/04
REFERENCE	GS	GS			

SURFACE CONDITIONS: Asphalt

DESCRIPTION BY: Tracy Iob

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION
				0		Asphalt
				1	OL	Soil fill with asphalt fragments
				2		SILTY CLAY, black (2.5/N), firm, medium plasticity, minor fine sand, dry.
				3		Change to dark greenish gray (5GY 4/1) and soft.
				4	CL	
			0.7	5		Change to dry.
		-		6		
				7		
24	18	-		8	ML	CLAYEY SILT, light olive brown (10YR 4/2), firm, medium plasticity, minor strongly cemented silt and fine to medium sand, dry.
			1.9	9	CL	SILTY CLAY, brownish yellow (10YR 7/8), hard, medium plasticity, minor fine sand, frequent small caliche nodules, dry.
18	18	18		10		CLAYEY SILT, light olive brown (2.5Y 5/6), soft, low plasticity, minor stongly cemented silt and fine to medium sand, dry.
		24		11		
		36			ML	
18	12	28		12		
		32	1.4			
		50		13		
24	6	36	2.1			
		50/4"		14	CL	SILTY CLAY, light olive brown (2.5Y 5/4), soft, medium plasticity, minor fine to medium sand, dry.
		-				
				15		
18	12	36				SILT, light olive brown (2.5Y 5/6), firm, low plasticity, some stongly cemented silt and fine to medium sand, dry.
		50		16		
18	6	42	1.8	17		
		50			ML	Change to soft and wet.
				18		
24		-				
	18	23		19		
		31	1.9			Change to hard and dry.
		38		20		Boring terminated at 20 feet bgs.

DETAILS



LOG OF SOIL BORING 334_2004.GPJ ETIC.GDT 10/5/04

ETIC ENGINEERING

LOG OF SOIL BORING: MW3

CLIENT	SITE NUMBER	LOCATION
ExxonMobil	04-334	2492 Castro Valley Blvd, Castro Valley, CA

DRILLING AND SAMPLING METHODS: Vacuum cleared to 5 feet bgs. Drilled with CME 75 limited access drill rig with 8.25" O.D. hollow stem augers. Sampled with a 18" California Modified Split Spoon Sampler.

				START	FINISH
WATER LEVEL	▽ 15	▼ 19.2			
TIME	1000	1125		TIME 1610	TIME 1036
DATE	6/25/4	6/25/4		DATE 6/23/04	DATE 6/25/04
REFERENCE	GS	GS			

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: Cascade Drilling, Inc.

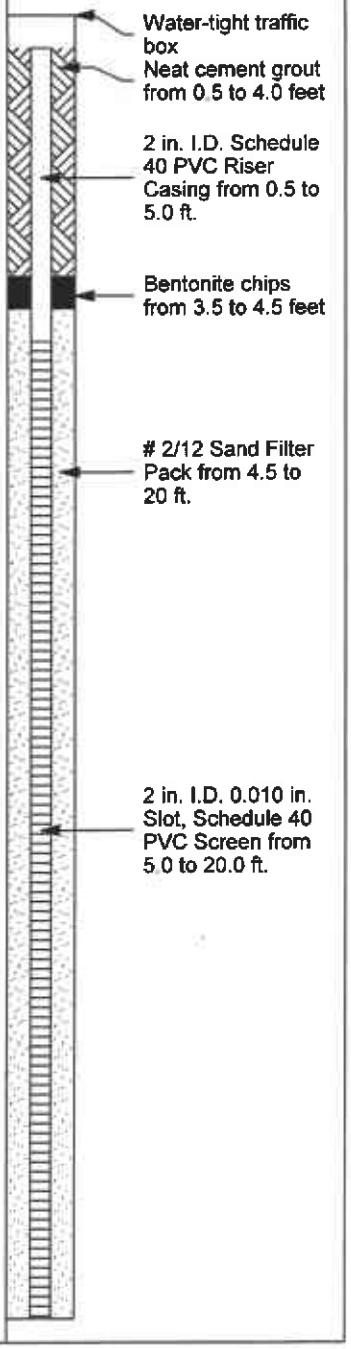
LICENSE NUMBER: C57-717510

SURFACE CONDITIONS: Open soil

DESCRIPTION BY: Tracy Iob

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION
				0	OL	Top soil and gravel.
				1	OL	Soil fill with asphalt fragments.
				2		SILTY CLAY, very dark brown (10YR 2/2), firm, medium plasticity, minor fine to medium poorly sorted sand, dry.
				3		
				4		Change to greenish gray (10YR 6/1).
			149.0	5	CL	
				6		
				7		
24	18	17	19.5	8		Change to moist.
		21				
		23		9		
18	12	19		10		
		26	10.6	11	ML	SANDY SILT, grayish brown (2.5Y 5/2), firm, medium plasticity, minor clay, some strongly cemented silt and fine to coarse sand, moist.
		28			CL	SILTY CLAY, greenish gray (10YR 6/1), firm, medium plasticity, minor fine to medium poorly sorted sand, dry.
18	12	22		12		
		31	0.8			
		50		13		
24	12	23				
		39		14		SANDY SILT, olive brown (2.5Y 4/4), hard, medium plasticity, some fine sand, dry.
		50	1.2			
				15 ▽		Change to moist, minor clay.
18	10	33				
		45		16	ML	
		50				
24	12	39		17		
		50	1.4			CLAYEY SILT, dark yellowish brown (10YR 4/6), firm, low plasticity, minor fine sand, moist.
				18		
						SILT, black (2.5Y /1), soft, low plasticity, moist.
18	13	27		19 ▼		Change to hard and dry.
		50	1.5			
				20		Boring terminated at 20 feet bgs.

DETAILS



LOG OF SOIL BORING 334_2004.GPJ ETIC.GDT 10/5/04

ETIC ENGINEERING

LOG OF SOIL BORING: MW4

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: Cascade Drilling, Inc.

LICENSE NUMBER: C57-717510

CLIENT	SITE NUMBER	LOCATION
ExxonMobil	04-334	2492 Castro Valley Blvd, Castro Valley, CA

DRILLING AND SAMPLING METHODS: Vacuum cleared to 8 feet bgs. Drilled with CME 75 limited access drill rig with 8.25" O.D. hollow stem augers. Sampled with a 18" California Modified Split Spoon Sampler.

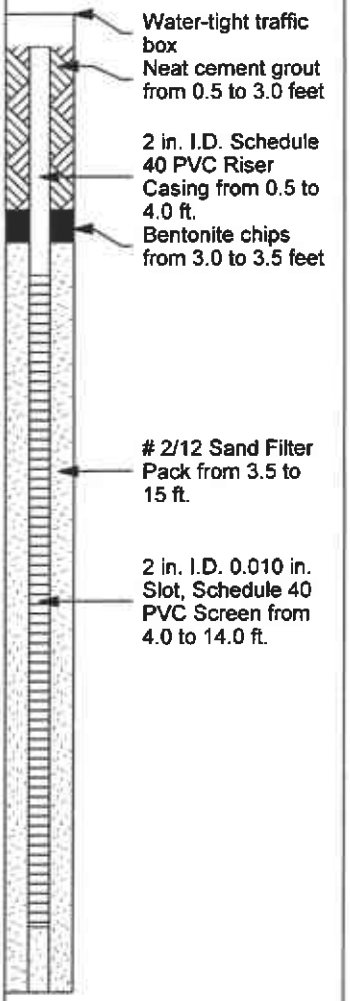
				START	FINISH
WATER LEVEL	▽ 7.2	▼ 6.5			
TIME	1151	1046		TIME 1151	TIME 1046
DATE	6/23/4	6/24/4		DATE 6/23/04	DATE 6/24/04
REFERENCE	GS	GS			

SURFACE CONDITIONS: Open soil

DESCRIPTION BY: Tracy Iob

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION
				0	OL	Top soil. Base rock with angular gravels from 0.75" to 1.5" diameter.
				1	GP	
				2	CL	SILTY CLAY, very dark brown (10YR 2/2), soft, medium plasticity, moist.
				3		
				4		SILTY CLAY, olive gray (5Y 4/2), firm, medium plasticity, minor fine to medium poorly sorted sand, moist. Color change to light olive brown (2.5Y 5/3). SANDY CLAY, olive brown (2.5Y 4/4), firm, medium plasticity, minor strongly cemented silt, some coarse poorly sorted sand, moist.
				5		
				6		
				7		Change to olive yellow (2.5Y 6/6) and soft.
				8		SILT, gray (5Y 5/1), fractured stongly cemented silt, some medium poorly sorted sand, wet.
				9	ML	
18	0	9 / 9		10		
6	6	10 / 50/6"	0.1	11		
				12		SANDY SILT, olive brown (2.5Y 4/4), firm, low plasticity, some siltstone, some fine sand, dry.
6	6	50/4"	0.1	13	ML	
				14		
6	6	50/6"	0.5	15		Boring terminated 15 feet bgs.
				16		
				17		
				18		
				19		
				20		

DETAILS



LOG OF SOIL BORING 334_2004.GPJ ETIC.GDT 10/5/04

Appendix E

Well Development and Sampling Forms

ETIC ENGINEERING

WELL DEVELOPMENT FORM

Project location: 2492 Castro Valley Boulevard, Castro Valley, CA Well No: MW1 Date: 7/9/09

Project No: TM04334 Task 3 Personnel: C. Mitchell

GAUGING DATA

Water Level Measuring Method: WLM Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	(solid) 19.84	−	7.29	=	12.55	X	1	(2)	4	6	2.00	=	5.02 (x3) 20.08 (x10)
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: Grundfos Purge Depth: 19

Time	12:26	12:30	12:34	12:37	12:39	12:42	
Volume Purge (gal)		2	4	6	8	9	
Temperature ( )		23.3°C	23.6°C	23.4°C	22.9°C	23.4°C	
pH		7.74	7.69	7.67	7.67	7.69	
Conductivity (us/cm)		1875 µS	2267 µS	1912 µS	1702 µS	1734 µS	
Color		Brown	Brown	Brown	Brown	Brown	
Turbidity		Silty	Silty	Silty	Silty	Silty	
Odor (Y/N)		N	N	N	N	N	
Casing Volumes							
Dewatered (Y/N)		N	N	N	N	Y	

Comments/Observbations: Dewatered at 9 gal.

Total Depth after Surge/Purge 19.84 solid Bottom

Total Purge Volume: 9 (gallons) Disposal:

Weather Conditions: OK

Condition of Well Box and Casing: OK

Well Head Conditions Requiring Correction: None

Problems Encountered During Purging: Dewatered Still Silty

Comments:

ETIC ENGINEERING

WELL DEVELOPMENT FORM

Project location: 2492 Castro Valley Boulevard, Castro Valley, CA Well No: MW2 Date: 7/9/04

Project No: TM04334 Task 3 Personnel: C. Mitchell

GAUGING DATA

Water Level Measuring Method: WLM Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	(sol'd) 20.21	−	6.99	=	13.22	X	1 (2)	4	6		2.11	=	6.34 (x3) 21.15 (x10)
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: Grundfos Purge Depth: 20

Time	13:15	13:17	13:19	13:22	13:24	
Volume Purge (gal)	2	4	6	8	10	12
Temperature ( )	22.3°C	22.2°C	22.0°C	21.8°C		
pH	7.75	7.63	7.65	7.66		
Conductivity (us/cm)	1925 µS	2049 µS	2015 µS	1798 µS		
Color	Brown	Brown	Brown	Brown		
Turbidity	Silty	~~Silty~~	Silty	Silty		
Odor (Y/N)	N	N	N	N		
Casing Volumes						
Dewatered (Y/N)	N	N	N	Y		

Comments/Observbations: Dewatered at 8 gal.

Total Depth after Surge/purge 20.21 Sol'd Bottom

Total Purge Volume: 8 (gallons) Disposal:

Weather Conditions: CC

Condition of Well Box and Casing:

Well Head Conditions Requiring Correction: None

Problems Encountered During Purging: Dewatered Still Silty

Comments:

ETIC ENGINEERING

WELL DEVELOPMENT FORM

Project location: 2492 Castro Valley Boulevard, Castro Valley, CA Well No: MW3 Date: 7/9/04

Project No: TM04334 Task 3 Personnel: C. Mitchell

GAUGING DATA

Water Level Measuring Method: WLM Measuring Point Description: TOC

	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
WELL PURGE VOLUME CALCULATION	(total) 20.05	−	5.47	=	14.58	×	1	(2)	4	6	2.33	=	6.99 (x3) 23.32 (x10)
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: Grundfos Purge Depth: 20

Time	13:~~50~~	13:53	13:55	13:57	13:58	14:00	
Volume Purge (gal)	2	4	6	8	10	12
Temperature ( )	21.7°C	22.1°C	21.8°C	21.5°C	21.5°C	
pH	7.72	7.67	7.66	7.69	7.71	
Conductivity (us/cm)	2251 µS	1899 µS	2075 µS	2293 µS	2337 µS	
Color	Brown	Brown	Brown	Brown	Brown	
Turbidity	Silty	Silty	Silty	Silty	Silty	
Odor (Y/N)	N	N	N	N	N	
Casing Volumes						
Dewatered (Y/N)	N	N	N	N	Y	

Comments/Observbations: Dewatered at 10 gal

Total Depth after Surging 20.05

Total Purge Volume: 10 (gallons) Disposal:

Weather Conditions: OK

Condition of Well Box and Casing: OK

Well Head Conditions Requiring Correction: None

Problems Encountered During Purging: Dewatered Still Silty

Comments:

ETIC ENGINEERING

WELL DEVELOPMENT FORM

Project location: 2492 Castro Valley Boulevard, Castro Valley, CA Well No: MW4 Date: 7/9/04

Project No: TM04334 Task 3 Personnel: C. Mitchell

GAUGING DATA

Water Level Measuring Method: WLM Measuring Point Description: TOC

	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
WELL PURGE VOLUME CALCULATION	(solid) 14.55	−	6.05	=	8.50	×	1	(2)	4	6	1.36	=	4.08 (x3) 13.60 (x10)
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: Grundfos Purge Depth: 14

Time	11:05	11:06	11:07	11:08	11:37	11:38	
Volume Purge (gal)		1	2	3	4	5	
Temperature ( )		22.5	23.1°C	23.5°C	26.3	24.9	
pH		6.69	7.46	7.50	7.60	7.62	
Conductivity (us/cm)		2110 µS	1960 µS	1997 µS	2047 µS	2067 µS	
Color		Brown S. Hty	Brown S. Hty	Brown S. Hty	Brown S. Hty	Brown S. Hty	
Turbidity		S. Hty	S. Hty	S. Hty	S. Hty	S. Hty	
Odor (Y/N)		N	N	N	N	N	
Casing Volumes							
Dewatered (Y/N)		N	N	N	Y	Y	

Comments/Observbations:

Total Depth after surge/purge 14.55 solid Bottom.

Total Purge Volume: 5 (gallons) Disposal:

Weather Conditions: OK

Condition of Well Box and Casing: OK

Well Head Conditions Requiring Correction: None

Problems Encountered During Purging: Dewatered still Silty

Comments: Purging data never Stabalized well very slow to recharge

11:24 11:40 3.5" well stopped

11:53

recharging

ETIC ENGINEERING

MONITORING WELL DATA FORM

Client: *Exxon*

Date: 8.13.04

Project Number: UP04-334

Station Number: 04-334

Site Location:
2492 Castro Valley Blvd , Castro Valley , California

Samplers: WP

MONITORING WELL NUMBER	DEPTH TO WATER (TOC)FT.	DEPTH TO PRODUCT (TOC)FT.	APPARENT PRODUCT THICKNESS (FT.)	AMOUNT OF PRODUCT REMOVED(L)	MONITORING WELL INTEGRITY	DEPTH TO BOTTOM (TOC)	WELL CASING DIAMETER
MW1	7.32					19.83	2"
MW2	6.96					20.20	2"
MW3	5.36					20.02	2"
MW4	6.10					14.51	2"

ETIC ENGINEERING

Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334 Well No: MW1 Date: 8.13.04

Project No: UP04-334.1 Personnel: VP

GAUGING DATA

Water Level Measuring Method: (WLM) / IP Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	19.83	-	7.32	=	12.56	X	1	(2)	4	6	2.00	=	6.00
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: (WATERRA) / BAILER / SUB Purge Rate: 2.0 GPM

Time 8:39	8:40	8:41	8:42			
Volume Purge (gal)	2	4	6			
Temperature (C)	22.0	21.7	20.9			
pH	7.86	7.83	7.82			
Spec Cond (umhos)	1096	1158	1124			
Turbidity/Color	SILTY/BRN	SILTY/BRN	SILTY/BRN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observbations:

SAMPLING DATA

Time Sampled: 8:50 Approximate Depth to Water During Sampling: 8 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW1	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW1	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 6 (gallons) Disposal: SYSTEM

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

BOLTS (Y) / N

CAP & LOCK (Y) / N

GROUT (Y) / N

WELL BOX. (Y) / N

SECURED (Y) / N

ETIC ENGINEERING

Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334 Well No: MW2 Date: 8-13-04

Project No: UP04-334.1 Personnel: (W)

GAUGING DATA

Water Level Measuring Method: (WLM) / IP Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	20.20	-	6.96	=	13.24	X	1	(2)	4	6	2.11	=	6.35
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: (WATERRA) / BAILER / SUB Purge Rate: 1.0 GPM

Time	9:10	9:12	9:14	9:16		
Volume Purge (gal)		2	4	6		
Temperature (C)		21.5	21.4	20.6		
pH		7.85	7.75	7.74		
Spec Cond (umhos)		1168	1228	1036		
Turbidity/Color		FILM/BRN	FILM/BRN	FILM/BRN		
Odor (Y/N)		N	N	N		
Casing Volumes		1	2	3		
Dewatered (Y/N)		N	N	N		

Comments/Observbations:

SAMPLING DATA

Time Sampled: 9:25 Approximate Depth to Water During Sampling: 7 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW2	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW2	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 6 (gallons) Disposal: SYSTEM

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

BOLTS (Y) / N

CAP & LOCK (Y) / N

GROUT (Y) / N

WELL BOX. (Y) / N

SECURED (Y) / N

ETIC ENGINEERING

Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334 Well No: MW3 Date: 8.13.04

Project No: UP04-334.1 Personnel: VV

GAUGING DATA

Water Level Measuring Method: WLM / IP Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	20.02	-	5.36	=	14.66	X	1	(2)	4	6	2.34	=	7.03
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: WATERRA / BAILER / SUB Purge Rate: 2.0 GPM

Time 9:50	9:51	9:52	9:53			
Volume Purge (gal)	2	4	6			
Temperature (C)	21.9	21.9	21.2			
pH	7.50	7.49	7.65			
Spec Cond (umhos)	1413	1429	1494			
Turbidity/Color	SILTY/BRN	SILTY/BRN	SILTY/BRN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observbations:

SAMPLING DATA

Time Sampled: 10:00 Approximate Depth to Water During Sampling: 6 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW3	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW3	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 6 (gallons) Disposal: SYSTEM

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

BOLTS (Y) / N

CAP & LOCK (Y) / N

GROUT (Y) / N

WELL BOX. (Y) / N

SECURED (Y) / N

ETIC ENGINEERING

Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334 Well No: MW4 Date: 8.13.04

Project No: UP04-334.1 Personnel: CMD

GAUGING DATA

Water Level Measuring Method: (WLM) / IP Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	14.51	−	6.10	=	8.41	X	1	(2)	4	6	1.34	=	4.03
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: (WATERRA / BAILER / SUB Purge Rate: 1.0 GPM

Time	7:56	7:57	7:58	7:59		
Volume Purge (gal)		1	2	3		
Temperature (C)		20.5	20.5	20.2		
pH		7.67	7.68	7.70		
Spec Cond.(umhos)		1121	1130	1179		
Turbidity/Color		slight/brn	slight/brn	slight/brn		
Odor (Y/N)		N	N	N		
Casing Volumes		1	2	3		
Dewatered (Y/N)		N	N	N		

Comments/Observbations:

SAMPLING DATA

Time Sampled: 8:05 Approximate Depth to Water During Sampling: 7 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW4	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW4	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 3 (gallons) Disposal: SYSTEM

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

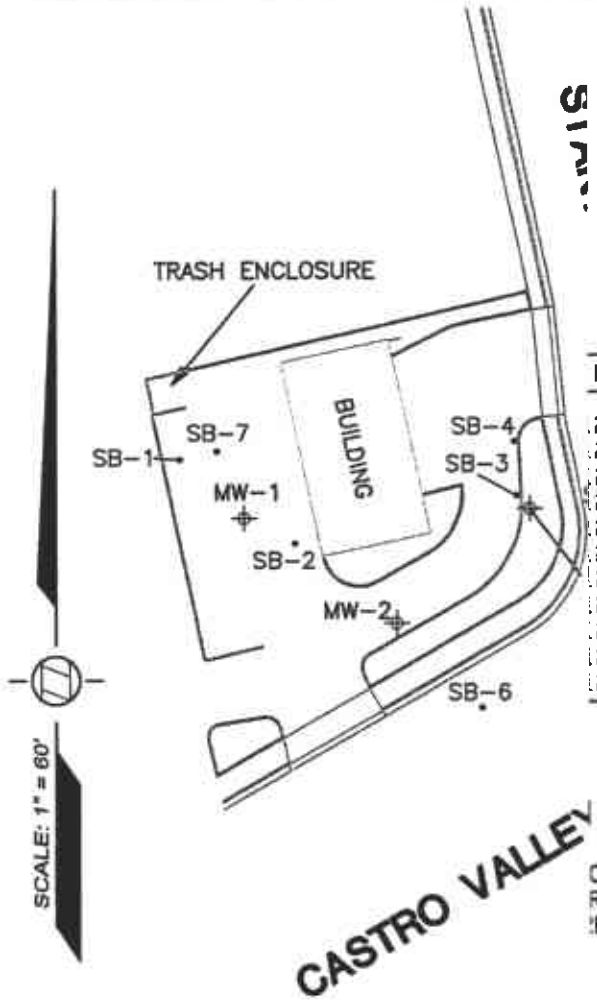
Problems Encountered During Purging and Sampling: NONE

Comments:

BOLTS	(Y) / N
CAP & LOCK	(Y) / N
GROUT	(Y) / N
WELL BOX.	(Y) / N
SECURED	(Y) / N

Appendix F

Survey Report



LONGITUDE	ELEV (PVC)	ELEV (BOX)
22.0939312	173.23	173.53
22.0937650	173.63	173.91
22.0936246	171.91	172.25
22.0931326	170.48	170.86
22.0940015		
22.0938758		
22.0936393		
22.0936424		
22.0935362		
22.0936716		
22.0939617		

OORDINATES FROM GPS OBSERVATIONS USING
RS STATION OBSERVATION FILES AND BASED ON
EFERENCE EPOCH 2000.35.

0 30 60 120
SCALE IN FEET

or Blvd. Ste. D
Sacramento
ornia 95691
) 372-8124
owsurveying.com

Date: 7-12-04
Scale: 1" = 60'
Sheet 1 of 1
Revised:
Field Book: MW-15
Dwg. No. 1893-051 JL

Appendix G

Laboratory Analytical Reports

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

7/ 3/04

CASE NARRATIVE

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 04-334
Project Number: .
Laboratory Project Number: 380330.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Sample Identification	Lab Number	Collection Date
MW1,5-5.5	04-A98689	6/23/04
MW2,5-5.5	04-A98690	6/23/04
MW3,5-5.5	04-A98691	6/23/04
MW4,11.5-12	04-A98692	6/24/04
MW4,13-13.5	04-A98693	6/24/04
MW4,14.5-15	04-A98694	6/24/04
MW1,8.5-9	04-A98695	6/24/04
MW1,16.5-17	04-A98696	6/24/04
MW1,19.5-20	04-A98697	6/24/04

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Roxanne L Connor Report Date: 7/ 3/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 01168CA

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A98689
Sample ID: MW1,5-5.5
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/23/04
Time Collected: 14:00
Date Received: 6/26/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	79.6	%		1	6/27/04	9:01	Fitzwater	CLP	8907
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 1/04	23:12	C. Wilson	8021B	5666
Ethylbenzene	ND	mg/kg	0.001	1	7/ 1/04	23:12	C. Wilson	8021B	5666
Toluene	ND	mg/kg	0.001	1	7/ 1/04	23:12	C. Wilson	8021B	5666
Xylenes, total	ND	mg/kg	0.001	1	7/ 1/04	23:12	C. Wilson	8021B	5666
TPH (Gasoline Range)	ND	mg/kg	4.97	1	7/ 1/04	23:12	C. Wilson	8015B	5666
TPH (Diesel Range)	ND	mg/kg	10	1	6/29/04	15:39	M.Jarrett	8015B	1663
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 1/04	0:29	J. Adams	8260B	3457

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.9 gm	1.0 ml	6/28/04		M. Ricke	3550
Volatile Organics	5.00 g	5.0 ml	6/29/04	14:55	Fitzwater	5035
BTX Prep	5.03 g	5.0 ml	6/26/04	14:55	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A98689
Sample ID: MW1,5-5.5
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	100.	60. - 130.
TPH Hi Surr., o-Terphenyl	79.	35. - 135.
VOA Surr 1,2-DCA-d4	118.	59. - 134.
VOA Surr Toluene-d8	101.	67. - 129.
VOA Surr, 4-BFB	99.	60. - 134.
VOA Surr, DBFM	107.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A98690
Sample ID: MW2,5-5.5
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/23/04
Time Collected: 15:54
Date Received: 6/26/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	81.9	%		1	6/27/04	9:01	Fitzwater	CLP	8907
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 1/04	23:41	C. Wilson	8021B	5666
Ethylbenzene	ND	mg/kg	0.001	1	7/ 1/04	23:41	C. Wilson	8021B	5666
Toluene	0.0018	mg/kg	0.001	1	7/ 1/04	23:41	C. Wilson	8021B	5666
Xylenes, total	0.0039	mg/kg	0.001	1	7/ 1/04	23:41	C. Wilson	8021B	5666
TPH (Gasoline Range)	ND	mg/kg	4.96	1	7/ 1/04	23:41	C. Wilson	8015B	5666
TPH (Diesel Range)	ND	mg/kg	9.84	1	6/29/04	15:56	M.Jarrett	8015B	1663
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 1/04	1:07	J. Adams	8260B	3457

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.4 gm	1.0 ml	6/28/04		M. Ricke	3550
Volatile Organics	5.02 g	5.0 ml	6/29/04	15:10	Fitzwater	5035
BTX Prep	5.04 g	5.0 ml	6/26/04	14:55	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A98690
Sample ID: MW2,5-5.5
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	101.	60. - 130.
TPH Hi Surr., o-Terphenyl	80.	35. - 135.
VOA Surr 1,2-DCA-d4	116.	59. - 134.
VOA Surr Toluene-d8	100.	67. - 129.
VOA Surr, 4-BFB	99.	60. - 134.
VOA Surr, DBFM	109.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A98691
Sample ID: MW3,5-5.5
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/23/04
Time Collected: 16:35
Date Received: 6/26/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.2	%		1	6/27/04	9:01	Fitzwater	CLP	8907
ORGANIC PARAMETERS									
Benzene	0.0324	mg/kg	0.001	1	7/ 2/04	0:10	C. Wilson	8021B	5666
Ethylbenzene	3.11	mg/kg	0.0498	50	7/ 2/04	11:22	C. Wilson	8021B	5687
Toluene	0.0184	mg/kg	0.001	1	7/ 2/04	0:10	C. Wilson	8021B	5666
Xylenes, total	2.22	mg/kg	0.0498	50	7/ 2/04	11:22	C. Wilson	8021B	5687
TPH (Gasoline Range)	12.7	mg/kg	4.98	1	7/ 2/04	0:10	C. Wilson	8015B	5666
TPH (Diesel Range)	18.1	mg/kg	10.1	1	6/29/04	16:12	M.Jarrett	8015B	1663
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.0996	50	6/30/04	7:29	J. Adams	8260B	3483

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.8 gm	1.0 ml	6/28/04		M. Ricke	3550
Volatile Organics	5.02 g	5.0 ml	6/29/04	15:17	Fitzwater	5035
BTX Prep	5.02 g	5.0 ml	6/26/04	14:55	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A98691
Sample ID: MW3,5-5.5
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	110.	60. - 130.
TPH Hi Surr., o-Terphenyl	84.	35. - 135.
VOA Surr 1,2-DCA-d4	102.	59. - 134.
VOA Surr Toluene-d8	112.	67. - 129.
VOA Surr, 4-BFB	106.	60. - 134.
VOA Surr, DBFM	102.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.
8260 PQL's elevated due to sample matrix.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A98692
Sample ID: MW4,11.5-12
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/24/04
Time Collected: 11:30
Date Received: 6/26/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	89.0	%		1	6/27/04	9:01	Fitzwater	CLP	8907
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	0:40	C. Wilson	8021B	5666
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	0:40	C. Wilson	8021B	5666
Toluene	ND	mg/kg	0.001	1	7/ 2/04	0:40	C. Wilson	8021B	5666
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	0:40	C. Wilson	8021B	5666
TPH (Gasoline Range)	ND	mg/kg	4.97	1	7/ 2/04	0:40	C. Wilson	8015B	5666
TPH (Diesel Range)	ND	mg/kg	9.88	1	6/29/04	16:28	M.Jarrett	8015B	1663
VOLATILE ORGANICS									
Methyl-t-butyl ether	0.0024	mg/kg	0.002	1	7/ 1/04	1:49	J. Adams	8260B	3457

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.3 gm	1.0 ml	6/28/04		M. Ricke	3550
Volatile Organics	5.02 g	5.0 ml	6/29/04	15:22	Fitzwater	5035
BTX Prep	5.03 g	5.0 ml	6/26/04	14:55	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A98692
Sample ID: MW4,11.5-12
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	103.	60. - 130.
TPH Hi Surr., o-Terphenyl	84.	35. - 135.
VOA Surr 1,2-DCA-d4	120.	59. - 134.
VOA Surr Toluene-d8	105.	67. - 129.
VOA Surr, 4-BFB	119.	60. - 134.
VOA Surr, DBFM	107.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A98693
Sample ID: MW4,13-13.5
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/24/04
Time Collected: 11:52
Date Received: 6/26/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	87.4	%		1	6/27/04	9:01	Fitzwater	CLP	8907
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	1:09	C. Wilson	8021B	5666
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	1:09	C. Wilson	8021B	5666
Toluene	ND	mg/kg	0.001	1	7/ 2/04	1:09	C. Wilson	8021B	5666
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	1:09	C. Wilson	8021B	5666
TPH (Gasoline Range)	ND	mg/kg	4.99	1	7/ 2/04	1:09	C. Wilson	8015B	5666
TPH (Diesel Range)	ND	mg/kg	10	1	6/29/04	16:45	M.Jarrett	8015B	1663
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 1/04	6:52	J. Yun	8260B	6289

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.9 gm	1.0 ml	6/28/04		M. Ricke	3550
Volatile Organics	5.05 g	5.0 ml	6/29/04	15:27	Fitzwater	5035
BTX Prep	5.01 g	5.0 ml	6/26/04	14:55	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A98693
Sample ID: MW4,13-13.5
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	112.	60. - 130.
TPH Hi Surr., o-Terphenyl	71.	35. - 135.
VOA Surr 1,2-DCA-d4	114.	59. - 134.
VOA Surr Toluene-d8	103.	67. - 129.
VOA Surr, 4-BFB	105.	60. - 134.
VOA Surr, DBFM	109.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A98694
Sample ID: MW4,14.5-15
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/24/04
Time Collected: 11:56
Date Received: 6/26/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	89.9	%		1	6/27/04	9:01	Fitzwater	CLP	8907
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	1:38	C. Wilson	8021B	5666
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	1:38	C. Wilson	8021B	5666
Toluene	ND	mg/kg	0.001	1	7/ 2/04	1:38	C. Wilson	8021B	5666
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	1:38	C. Wilson	8021B	5666
TPH (Gasoline Range)	ND	mg/kg	4.99	1	7/ 2/04	1:38	C. Wilson	8015B	5666
TPH (Diesel Range)	ND	mg/kg	10.1	1	6/29/04	17:01	M.Jarrett	8015B	1663
VOLATILE ORGANICS									
Methyl-t-butyl ether	0.0024	mg/kg	0.002	1	7/ 1/04	7:11	J. Yun	8260B	6289

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.7 gm	1.0 ml	6/28/04		M. Ricke	3550
Volatile Organics	5.02 g	5.0 ml	6/29/04	15:35	Fitzwater	5035
BTX Prep	5.01 g	5.0 ml	6/26/04	14:55	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A98694
Sample ID: MW4,14.5-15
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	101.	60. - 130.
TPH Hi Surr., o-Terphenyl	88.	35. - 135.
VOA Surr 1,2-DCA-d4	117.	59. - 134.
VOA Surr Toluene-d8	108.	67. - 129.
VOA Surr, 4-BFB	122.	60. - 134.
VOA Surr, DBFM	111.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A98695
Sample ID: MW1,8.5-9
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/24/04
Time Collected: 14:40
Date Received: 6/26/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.4	%		1	6/27/04	9:01	Fitzwater	CLP	8907
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	2:07	C. Wilson	8021B	5666
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	2:07	C. Wilson	8021B	5666
Toluene	ND	mg/kg	0.001	1	7/ 2/04	2:07	C. Wilson	8021B	5666
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	2:07	C. Wilson	8021B	5666
TPH (Gasoline Range)	ND	mg/kg	4.98	1	7/ 2/04	2:07	C. Wilson	8015B	5666
TPH (Diesel Range)	ND	mg/kg	10.2	1	6/29/04	17:17	M.Jarrett	8015B	1663
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 1/04	7:30	J. Yun	8260B	6289

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.6 gm	1.0 ml	6/28/04		M. Ricke	3550
Volatile Organics	5.03 g	5.0 ml	6/29/04	15:40	Fitzwater	5035
BTX Prep	5.02 g	5.0 ml	6/26/04	14:55	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A98695
Sample ID: MW1,8.5-9
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	100.	60. - 130.
TPH Hi Surr., o-Terphenyl	87.	35. - 135.
VOA Surr 1,2-DCA-d4	118.	59. - 134.
VOA Surr Toluene-d8	97.	67. - 129.
VOA Surr, 4-BFB	101.	60. - 134.
VOA Surr, DBFM	106.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A98696
Sample ID: MW1,16.5-17
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/24/04
Time Collected: 15:20
Date Received: 6/26/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	87.4	%		1	6/27/04	9:01	Fitzwater	CLP	8907
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	2:37	C. Wilson	8021B	5666
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	2:37	C. Wilson	8021B	5666
Toluene	ND	mg/kg	0.001	1	7/ 2/04	2:37	C. Wilson	8021B	5666
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	2:37	C. Wilson	8021B	5666
TPH (Gasoline Range)	ND	mg/kg	4.96	1	7/ 2/04	2:37	C. Wilson	8015B	5666
TPH (Diesel Range)	ND	mg/kg	10.1	1	6/29/04	17:33	M.Jarrett	8015B	1663
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 1/04	7:49	J. Yun	8260B	6289

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.8 gm	1.0 ml	6/28/04		M. Ricke	3550
Volatile Organics	4.96 g	5.0 ml	6/29/04	15:45	Fitzwater	5035
BTX Prep	5.04 g	5.0 ml	6/26/04	14:55	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A98696
Sample ID: MW1,16.5-17
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	99.	60. - 130.
TPH Hi Surr., o-Terphenyl	83.	35. - 135.
VOA Surr 1,2-DCA-d4	133.	59. - 134.
VOA Surr Toluene-d8	135. #	67. - 129.
VOA Surr, 4-BFB	123.	60. - 134.
VOA Surr, DBFM	120.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.
8260 surrogate outside QC range due to sample matrix.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A98697
Sample ID: MW1,19.5-20
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/24/04
Time Collected: 15:41
Date Received: 6/26/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	85.1	%		1	6/27/04	9:01	Fitzwater	CLP	8907
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	3:06	C. Wilson	8021B	5666
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	3:06	C. Wilson	8021B	5666
Toluene	ND	mg/kg	0.001	1	7/ 2/04	3:06	C. Wilson	8021B	5666
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	3:06	C. Wilson	8021B	5666
TPH (Gasoline Range)	ND	mg/kg	5.04	1	7/ 2/04	3:06	C. Wilson	8015B	5666
TPH (Diesel Range)	ND	mg/kg	10.1	1	6/29/04	17:49	M.Jarrett	8015B	1663
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 1/04	8:08	J. Yun	8260B	6289

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.7 gm	1.0 ml	6/28/04		M. Ricke	3550
Volatile Organics	5.02 g	5.0 ml	6/29/04	15:52	Fitzwater	5035
BTX Prep	4.96 g	5.0 ml	6/26/04	14:55	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A98697
Sample ID: MW1,19.5-20
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	100.	60. - 130.
TPH Hi Surr., o-Terphenyl	84.	35. - 135.
VOA Surr 1,2-DCA-d4	119.	59. - 134.
VOA Surr Toluene-d8	110.	67. - 129.
VOA Surr, 4-BFB	136. #	60. - 134.
VOA Surr, DBFM	106.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.
8260 surrogate outside QC range due to sample matrix.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA

Project Number:
Project Name: EXXONMOBIL 04-334
Page: 1
Laboratory Receipt Date: 6/26/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Benzene	mg/kg	0.0093	0.0355	0.0500	52	26. - 154.	5666	99643
Toluene	mg/kg	0.0071	0.0312	0.0500	48	22. - 148.	5666	99643
Ethylbenzene	mg/kg	0.0121	0.0454	0.0500	67	16. - 151.	5666	99643
Xylenes, total	mg/kg	0.0129	0.0549	0.100	42#	45. - 155.	5666	99643
TPH (Gasoline Range)	mg/kg	< 5.00	11.1	10.0	111	25. - 152.	5666	99643
TPH (Diesel Range)	mg/kg	< 10.0	36.5	40.0	91	33. - 146.	1663	04-A98689
VOA Surr 1,2-DCA-d4	% Rec				103	59 - 134	3483	
VOA Surr 1,2-DCA-d4	% Rec				98	59 - 134	3457	
VOA Surr 1,2-DCA-d4	% Rec				101	59 - 134	6289	
VOA Surr Toluene-d8	% Rec				104	67 - 129	3483	
VOA Surr Toluene-d8	% Rec				105	67 - 129	3457	
VOA Surr Toluene-d8	% Rec				103	67 - 129	6289	
VOA Surr, 4-BFB	% Rec				102	60 - 134	3483	
VOA Surr, 4-BFB	% Rec				101	60 - 134	3457	
VOA Surr, 4-BFB	% Rec				100	60 - 134	6289	
VOA Surr, DBFM	% Rec				103	67 - 126	3483	
VOA Surr, DBFM	% Rec				102	67 - 126	3457	
VOA Surr, DBFM	% Rec				103	67 - 126	6289	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334

Laboratory Receipt Date: 6/26/04

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.0355	< 0.0010	189.04#	34.	5666
Toluene	mg/kg	0.0312	0.0380	19.65	39.	5666
Ethylbenzene	mg/kg	0.0454	0.0828	58.35#	40.	5666
Xylenes, total	mg/kg	0.0549	0.110	66.83#	44.	5666
TPH (Gasoline Range)	mg/kg	11.1	11.7	5.26	32.	5666
TPH (Diesel Range)	mg/kg	36.5	36.0	1.38	50.	1663
VOA Surr 1,2-DCA-d4	% Rec		102.			3483
VOA Surr 1,2-DCA-d4	% Rec		95.			3457
VOA Surr 1,2-DCA-d4	% Rec		108.			6289
VOA Surr Toluene-d8	% Rec		104.			3483
VOA Surr Toluene-d8	% Rec		105.			3457
VOA Surr Toluene-d8	% Rec		102.			6289
VOA Surr, 4-BFB	% Rec		103.			3483
VOA Surr, 4-BFB	% Rec		103.			3457
VOA Surr, 4-BFB	% Rec		99.			6289
VOA Surr, DBFM	% Rec		104.			3483
VOA Surr, DBFM	% Rec		98.			3457
VOA Surr, DBFM	% Rec		102.			6289

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.100	0.0980	98	71 - 127	5666
Toluene	mg/kg	0.100	0.0945	94	73 - 121	5666
Ethylbenzene	mg/kg	0.100	0.101	101	71 - 127	5666

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334

Laboratory Receipt Date: 6/26/04

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Ethylbenzene	mg/kg	0.100	0.106	106	71 - 127	5687
Xylenes, total	mg/kg	0.200	0.199	100	72 - 123	5666
Xylenes, total	mg/kg	0.200	0.208	104	72 - 123	5687
TPH (Gasoline Range)	mg/kg	10.0	11.7	117	76 - 122	5666
TPH (Diesel Range)	mg/kg	40.0	37.8	94	48 - 135	1663
VOA PARAMETERS						
Methyl-t-butyl ether	mg/kg	0.0500	0.0555	111	59 - 139	3457
Methyl-t-butyl ether	mg/kg	0.0500	0.0466	93	59 - 139	3483
Methyl-t-butyl ether	mg/kg	0.0500	0.0470	94	59 - 139	6289
VOA Surr 1,2-DCA-d4	% Rec			102	59 - 134	3457
VOA Surr 1,2-DCA-d4	% Rec			96	59 - 134	3483
VOA Surr 1,2-DCA-d4	% Rec			96	59 - 134	6289
VOA Surr Toluene-d8	% Rec			105	67 - 129	3457
VOA Surr Toluene-d8	% Rec			104	67 - 129	3483
VOA Surr Toluene-d8	% Rec			102	67 - 129	6289
VOA Surr, 4-BFB	% Rec			103	60 - 134	3457
VOA Surr, 4-BFB	% Rec			104	60 - 134	3483
VOA Surr, 4-BFB	% Rec			102	60 - 134	6289
VOA Surr, DBFM	% Rec			101	67 - 126	3457
VOA Surr, DBFM	% Rec			103	67 - 126	3483
VOA Surr, DBFM	% Rec			98	67 - 126	6289

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 4
Laboratory Receipt Date: 6/26/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.0010	mg/kg	5666	7/ 1/04	20:46
Toluene	< 0.0010	mg/kg	5666	7/ 1/04	20:46
Ethylbenzene	< 0.0010	mg/kg	5666	7/ 1/04	20:46
Ethylbenzene	< 0.0010	mg/kg	5687	7/ 2/04	9:55
Xylenes, total	< 0.0010	mg/kg	5666	7/ 1/04	20:46
Xylenes, total	< 0.0010	mg/kg	5687	7/ 2/04	9:55
TPH (Gasoline Range)	< 5.00	mg/kg	5666	7/ 1/04	20:46
TPH (Diesel Range)	< 10.0	mg/kg	1663	6/29/04	14:35
UST surr-Trifluorotoluene	104.	% Recovery	5666	7/ 1/04	20:46
UST surr-Trifluorotoluene	102.	% Recovery	5687	7/ 2/04	9:55
VOA PARAMETERS					
Methyl-t-butyl ether	< 0.0006	mg/kg	3457	6/30/04	16:46
Methyl-t-butyl ether	< 0.0006	mg/kg	3483	6/30/04	2:44
Methyl-t-butyl ether	< 0.0006	mg/kg	6289	7/ 1/04	6:33
VOA Surr 1,2-DCA-d4	130.	% Rec	3457	6/30/04	16:46
VOA Surr 1,2-DCA-d4	127.	% Rec	3483	6/30/04	2:44
VOA Surr 1,2-DCA-d4	126.	% Rec	6289	7/ 1/04	6:33
VOA Surr Toluene-d8	100.	% Rec	3457	6/30/04	16:46
VOA Surr Toluene-d8	102.	% Rec	3483	6/30/04	2:44
VOA Surr Toluene-d8	100.	% Rec	6289	7/ 1/04	6:33
VOA Surr, 4-BFB	102.	% Rec	3457	6/30/04	16:46
VOA Surr, 4-BFB	98.	% Rec	3483	6/30/04	2:44
VOA Surr, 4-BFB	103.	% Rec	6289	7/ 1/04	6:33
VOA Surr, DBFM	109.	% Rec	3457	6/30/04	16:46
VOA Surr, DBFM	108.	% Rec	3483	6/30/04	2:44
VOA Surr, DBFM	109.	% Rec	6289	7/ 1/04	6:33

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 5
Laboratory Receipt Date: 6/26/04

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 380330

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

380330

COOLER RECEIPT FORM **BC#**

Client Name : ETIC Engineering

Cooler Received/Opened On: 6/26/04 **Accessioned By:** Shane Gambill

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 5.8 **Degrees Celsius**
2. Were custody seals on outside of cooler?..... YES...NO...NA
   a. If yes, how many, what kind and where: 1/2/3/4 FRONT/BACK/SIDE
3. Were custody seals on containers and intact?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA

    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

2519

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

CHAIN OF CUSTODY RECORD
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

380330

Consultant Name: ETIC ENGINEERING
Address: 2285 MORELLO AVENUE
City/State/Zip: PLEASANT HILL, CA. 94523
ExxonMobil Project Mgr: BRYAN CAMPBELL
Telephone Number: (925) 602-4710 EXT. 24 Fax No.: (925) 602-4720
Sampler Name: (Print) Bryan Campbell
Sampler Signature:

Report To: BRYAN CAMPBELL
Invoice To: GENE ORTEGA (EXXONMOBIL TM)
Account #: 3865
PO #: 4504340684
Facility ID # 04-334
Site Address 2492 Castro Valley Blvd.
City, State Zip Castro Valley, CA

	Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	2 Unpreserved Liters	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: TPH-G/BTEX BY 8015B/8021B	TPH-D BY 8015B*	MTBE BY 8260B	TRPH BY 418.1M*	TOTAL LEAD BY 6010B						HOLD	RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results
✓	MW1, 5-5.5	6/03/04	1400	1				X												X		X	X	X			9	8	89					X	
✓	MW2, 5-5.5	↓	1554	1				X												X		X	X	X					90					X	
✓	MW3, 5-5.5	↓	1635	1				X												X		X	X	X					91					X	
✓	MW4, 11.5-12	6/04/04	1130	1				X												X		X	X	X					92					X	
✓	MW4, 13-13.5		1152	1				X												X		X	X	X					93					X	
✓	MW4, 14.5-15		1156	1				X												X		X	X	X					94					X	
✓	MW1, 8.5-9		1440	1				X												X		X	X	X					95					X	
✓	MW1, 12-12.5		1456	1				X												X											X				
✓	MW1, 16.5-17		1520	1				X												X		X	X	X			✓		96					X	
✓	MW1, 17.5-18		1530	1				X												X											X				

Special Instructions:
***USE SILICA-GEL CLEAN-UP**

GLOBAL ID# TO600101278

EDF FILE REQUIRED

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
	6/25/04	15:00			
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				6/26/04	8:30

G:\Projects\04-334\Public\2004 Well Installations\04334 COC.xls

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

CHAIN OF CUSTODY RECORD
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

380330

Consultant Name: ETIC ENGINEERING
Address: 2285 MORELLO AVENUE
City/State/Zip: PLEASANT HILL, CA. 94523
ExxonMobil Project Mgr: BRYAN CAMPBELL
Telephone Number: (925) 602-4710 EXT. 24
Fax No.: (925) 602-4720
Sampler Name: (Print) Bryan Campbell
Sampler Signature:

Report To: BRYAN CAMPBELL
Invoice To: GENE ORTEGA (EXXONMOBIL TM)
Account #: 3865
PO #: 4504340684
Facility ID # 04-334
Site Address 2492 Castro Valley Blvd.
City, State Zip Castro Valley, CA

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	2 Unpreserved Liters	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: TPH-G/BTEX BY 8015B/8021B	TPH-D BY 8015B*	MTBE BY 8260B	TRPH BY 418.1M*	TOTAL LEAD BY 6010B	98697	HOLD	RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results
MW1, 19.5-20	6/24/04	1541	1				X												X		X	X	X							X	

Special Instructions:
*USE SILICA-GEL CLEAN-UP

GLOBAL ID# TO600101278

EDF FILE REQUIRED

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
	6/25/04	15:00			
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				6/26/04	8:00

G:\Projects\04-334\Public\2004 Well Installations\04334 COC.xls

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

7/ 6/04

CASE NARRATIVE

RECEIVED
JUL 12 2004
ETIC ENGINEERING

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 04-334
Project Number: .
Laboratory Project Number: 380478.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Sample Identification	Lab Number	Collection Date
MW2 9-9.5	04-A99473	6/25/04
MW2 13-13.5	04-A99474	6/25/04
MW2 16.5-17	04-A99475	6/25/04
MW2 19.5-20	04-A99476	6/25/04
MW3 8-8.5	04-A99477	6/25/04
MW3 10.5-11	04-A99478	6/25/04
MW3 12-12.5	04-A99479	6/25/04
MW3 17-17.5	04-A99480	6/25/04
MW3 19-19.5	04-A99481	6/25/04

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 7/ 6/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 01168CA

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: TRACY IOB

Lab Number: 04-A99473
Sample ID: MW2 9-9.5
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 7:43
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	83.9	%		1	6/30/04	14:34	Fitzwater	CLP	5115
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	10:53	C. Wilson	8021B	6955
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	10:53	C. Wilson	8021B	6955
Toluene	ND	mg/kg	0.001	1	7/ 2/04	10:53	C. Wilson	8021B	6955
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	10:53	C. Wilson	8021B	6955
TPH (Gasoline Range)	ND	mg/kg	5.01	1	7/ 2/04	10:53	C. Wilson	8015B	6955
TPH (Diesel Range)	ND	mg/kg	10.2	1	7/ 1/04	16:09	Weatherly	8015B	4258
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 1/04	21:50	J. Yun	8260B	6300

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.6 gm	1.0 ml	6/30/04		K. Turner	3550
Volatile Organics	5.04 g	5.0 ml	6/29/04	16:02	Fitzwater	5035
BTX Prep	4.99 g	5.0 ml	6/29/04	16:02	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99473
Sample ID: MW2 9-9.5
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	98.	60. - 130.
TPH Hi Surr., o-Terphenyl	89.	35. - 135.
VOA Surr 1,2-DCA-d4	103.	59. - 134.
VOA Surr Toluene-d8	108.	67. - 129.
VOA Surr, 4-BFB	110.	60. - 134.
VOA Surr, DBFM	94.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: TRACY IOB

Lab Number: 04-A99474
Sample ID: MW2 13-13.5
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 8:06
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	84.3	%		1	6/30/04	14:34	Fitzwater	CLP	5115
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	11:52	C. Wilson	8021B	6955
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	11:52	C. Wilson	8021B	6955
Toluene	ND	mg/kg	0.001	1	7/ 2/04	11:52	C. Wilson	8021B	6955
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	11:52	C. Wilson	8021B	6955
TPH (Gasoline Range)	ND	mg/kg	5.05	1	7/ 2/04	11:52	C. Wilson	8015B	6955
TPH (Diesel Range)	ND	mg/kg	10	1	7/ 1/04	16:29	Weatherly	8015B	4258
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 2/04	4:21	J. Yun	8260B	6305

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	6/30/04		K. Turner	3550
Volatile Organics	5.02 g	5.0 ml	6/29/04	16:10	Fitzwater	5035
BTX Prep	4.95 g	5.0 ml	6/29/04	16:02	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99474
Sample ID: MW2 13-13.5
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	100.	60. - 130.
TPH Hi Surr., o-Terphenyl	119.	35. - 135.
VOA Surr 1,2-DCA-d4	91.	59. - 134.
VOA Surr Toluene-d8	108.	67. - 129.
VOA Surr, 4-BFB	110.	60. - 134.
VOA Surr, DBFM	88.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: TRACY IOB

Lab Number: 04-A99475
Sample ID: MW2 16.5-17
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 8:20
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	83.5	%		1	6/30/04	14:34	Fitzwater	CLP	5115
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	12:21	C. Wilson	8021B	6955
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	12:21	C. Wilson	8021B	6955
Toluene	ND	mg/kg	0.001	1	7/ 2/04	12:21	C. Wilson	8021B	6955
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	12:21	C. Wilson	8021B	6955
TPH (Gasoline Range)	ND	mg/kg	4.97	1	7/ 2/04	12:21	C. Wilson	8015B	6955
TPH (Diesel Range)	ND	mg/kg	9.8	1	7/ 1/04	16:49	Weatherly	8015B	4258
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 2/04	2:21	J. Yun	8260B	6305

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.5 gm	1.0 ml	6/30/04		K. Turner	3550
Volatile Organics	5.05 g	5.0 ml	6/29/04	16:15	Fitzwater	5035
BTX Prep	5.03 g	5.0 ml	6/29/04	16:02	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99475
Sample ID: MW2 16.5-17
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	100.	60. - 130.
TPH Hi Surr., o-Terphenyl	97.	35. - 135.
VOA Surr 1,2-DCA-d4	111.	59. - 134.
VOA Surr Toluene-d8	108.	67. - 129.
VOA Surr, 4-BFB	115.	60. - 134.
VOA Surr, DBFM	97.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: TRACY IOB

Lab Number: 04-A99476
Sample ID: MW2 19.5-20
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 8:30
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	89.3	%		1	6/30/04	14:34	Fitzwater	CLP	5115
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	12:50	C. Wilson	8021B	6955
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	12:50	C. Wilson	8021B	6955
Toluene	ND	mg/kg	0.001	1	7/ 2/04	12:50	C. Wilson	8021B	6955
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	12:50	C. Wilson	8021B	6955
TPH (Gasoline Range)	ND	mg/kg	5.04	1	7/ 2/04	12:50	C. Wilson	8015B	6955
TPH (Diesel Range)	ND	mg/kg	10	1	7/ 1/04	17:09	Weatherly	8015B	4258
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 2/04	2:51	J. Yun	8260B	6305

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.9 gm	1.0 ml	6/30/04		K. Turner	3550
Volatile Organics	4.96 g	5.0 ml	6/29/04	16:21	Fitzwater	5035
BTX Prep	4.96 g	5.0 ml	6/29/04	16:02	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99476
Sample ID: MW2 19.5-20
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	98.	60. - 130.
TPH Hi Surr., o-Terphenyl	80.	35. - 135.
VOA Surr 1,2-DCA-d4	114.	59. - 134.
VOA Surr Toluene-d8	108.	67. - 129.
VOA Surr, 4-BFB	114.	60. - 134.
VOA Surr, DBFM	99.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: TRACY IOB

Lab Number: 04-A99477
Sample ID: MW3 8-8.5
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 9:51
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	67.8	%		1	6/30/04	14:34	Fitzwater	CLP	5115
ORGANIC PARAMETERS									
Benzene	2.21	mg/kg	0.0505	50	7/ 3/04	17:37	C. Wilson	8021B	6971
Ethylbenzene	27.4	mg/kg	0.253	250	7/ 6/04	11:56	C. Wilson	8021B	8388
Toluene	1.48	mg/kg	0.0505	50	7/ 3/04	17:37	C. Wilson	8021B	6971
Xylenes, total	5.49	mg/kg	0.0505	50	7/ 3/04	17:37	C. Wilson	8021B	6971
TPH (Gasoline Range)	1400	mg/kg	253	50	7/ 3/04	17:37	C. Wilson	8015B	6971
TPH (Diesel Range)	ND	mg/kg	10	1	7/ 1/04	17:29	Weatherly	8015B	4258
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 2/04	3:21	J. Yun	8260B	6305

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	6/30/04		K. Turner	3550
Volatile Organics	4.97 g	5.0 ml	6/29/04	16:34	Fitzwater	5035
BTX Prep	4.95 g	5.0 ml	6/29/04	16:02	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99477
Sample ID: MW3 8-8.5
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	142. #	60. - 130.
TPH Hi Surr., o-Terphenyl	108.	35. - 135.
VOA Surr 1,2-DCA-d4	103.	59. - 134.
VOA Surr Toluene-d8	110.	67. - 129.
VOA Surr, 4-BFB	120.	60. - 134.
VOA Surr, DBFM	86.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.
8021:surrogate outside QC range high due to sample matrix.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: TRACY IOB

Lab Number: 04-A99478
Sample ID: MW3 10.5-11
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 9:57
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	90.4	%		1	6/30/04	14:34	Fitzwater	CLP	5115
ORGANIC PARAMETERS									
Benzene	0.003	mg/kg	0.001	1	7/ 3/04	16:08	C. Wilson	8021B	6971
Ethylbenzene	0.001	mg/kg	0.001	1	7/ 3/04	16:08	C. Wilson	8021B	6971
Toluene	0.0014	mg/kg	0.001	1	7/ 3/04	16:08	C. Wilson	8021B	6971
Xylenes, total	ND	mg/kg	0.001	1	7/ 3/04	16:08	C. Wilson	8021B	6971
TPH (Gasoline Range)	ND	mg/kg	4.95	1	7/ 3/04	16:08	C. Wilson	8015B	6971
TPH (Diesel Range)	ND	mg/kg	9.88	1	7/ 1/04	17:49	Weatherly	8015B	4258
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 2/04	3:51	J. Yun	8260B	6305

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.3 gm	1.0 ml	6/30/04		K. Turner	3550
Volatile Organics	4.97 g	5.0 ml	6/29/04	16:40	Fitzwater	5035
BTX Prep	5.05 g	5.0 ml	6/29/04	16:02	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99478
Sample ID: MW3 10.5-11
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	98.	60. - 130.
TPH Hi Surr., o-Terphenyl	106.	35. - 135.
VOA Surr 1,2-DCA-d4	92.	59. - 134.
VOA Surr Toluene-d8	108.	67. - 129.
VOA Surr, 4-BFB	109.	60. - 134.
VOA Surr, DBFM	90.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: TRACY IOB

Lab Number: 04-A99479
Sample ID: MW3 12-12.5
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 10:08
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	86.6	%		1	6/30/04	14:34	Fitzwater	CLP	5115
ORGANIC PARAMETERS									
Benzene	0.0061	mg/kg	0.001	1	7/ 3/04	16:38	C. Wilson	8021B	6971
Ethylbenzene	0.0122	mg/kg	0.001	1	7/ 3/04	16:38	C. Wilson	8021B	6971
Toluene	0.0059	mg/kg	0.001	1	7/ 3/04	16:38	C. Wilson	8021B	6971
Xylenes, total	0.0111	mg/kg	0.001	1	7/ 3/04	16:38	C. Wilson	8021B	6971
TPH (Gasoline Range)	ND	mg/kg	4.96	1	7/ 3/04	16:38	C. Wilson	8015B	6971
TPH (Diesel Range)	ND	mg/kg	10.1	1	7/ 1/04	18:08	Weatherly	8015B	4258
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 2/04	4:51	J. Yun	8260B	6305

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.7 gm	1.0 ml	6/30/04		K. Turner	3550
Volatile Organics	5.04 g	5.0 ml	6/29/04	16:48	Fitzwater	5035
BTX Prep	5.04 g	5.0 ml	6/29/04	16:02	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99479
Sample ID: MW3 12-12.5
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	105.	60. - 130.
TPH Hi Surr., o-Terphenyl	133.	35. - 135.
VOA Surr 1,2-DCA-d4	95.	59. - 134.
VOA Surr Toluene-d8	108.	67. - 129.
VOA Surr, 4-BFB	112.	60. - 134.
VOA Surr, DBFM	88.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: TRACY IOB

Lab Number: 04-A99480
Sample ID: MW3 17-17.5
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 10:26
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	84.4	%		1	6/30/04	14:34	Fitzwater	CLP	5115
ORGANIC PARAMETERS									
Benzene	0.0012	mg/kg	0.001	1	7/ 3/04	17:07	C. Wilson	8021B	6971
Ethylbenzene	ND	mg/kg	0.001	1	7/ 3/04	17:07	C. Wilson	8021B	6971
Toluene	ND	mg/kg	0.001	1	7/ 3/04	17:07	C. Wilson	8021B	6971
Xylenes, total	ND	mg/kg	0.001	1	7/ 3/04	17:07	C. Wilson	8021B	6971
TPH (Gasoline Range)	ND	mg/kg	5	1	7/ 3/04	17:07	C. Wilson	8015B	6971
TPH (Diesel Range)	ND	mg/kg	10.1	1	7/ 1/04	18:28	Weatherly	8015B	4258
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 2/04	5:21	J. Yun	8260B	6305

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.8 gm	1.0 ml	6/30/04		K. Turner	3550
Volatile Organics	4.97 g	5.0 ml	6/29/04	16:58	Fitzwater	5035
BTX Prep	5.00 g	5.0 ml	6/29/04	16:02	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99480
Sample ID: MW3 17-17.5
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	107.	60. - 130.
TPH Hi Surr., o-Terphenyl	99.	35. - 135.
VOA Surr 1,2-DCA-d4	99.	59. - 134.
VOA Surr Toluene-d8	107.	67. - 129.
VOA Surr, 4-BFB	109.	60. - 134.
VOA Surr, DBFM	94.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: TRACY IOB

Lab Number: 04-A99481
Sample ID: MW3 19-19.5
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 10:28
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	87.0	%		1	6/30/04	14:34	Fitzwater	CLP	5115
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	15:16	C. Wilson	8021B	6955
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	15:16	C. Wilson	8021B	6955
Toluene	ND	mg/kg	0.001	1	7/ 2/04	15:16	C. Wilson	8021B	6955
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	15:16	C. Wilson	8021B	6955
TPH (Gasoline Range)	ND	mg/kg	5.03	1	7/ 2/04	15:16	C. Wilson	8015B	6955
TPH (Diesel Range)	ND	mg/kg	9.92	1	7/ 1/04	18:48	Weatherly	8015B	4258
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	mg/kg	0.002	1	7/ 2/04	1:51	J. Yun	8260B	6305

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 gm	1.0 ml	6/30/04		K. Turner	3550
Volatile Organics	4.97 g	5.0 ml	6/29/04	17:04	Fitzwater	5035
BTX Prep	4.97 g	5.0 ml	6/29/04	16:02	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99481
Sample ID: MW3 19-19.5
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	100.	60. - 130.
TPH Hi Surr., o-Terphenyl	101.	35. - 135.
VOA Surr 1,2-DCA-d4	111.	59. - 134.
VOA Surr Toluene-d8	109.	67. - 129.
VOA Surr, 4-BFB	118.	60. - 134.
VOA Surr, DBFM	95.	67. - 126.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 1
Laboratory Receipt Date: 6/29/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Benzene	mg/kg	0.0255	0.0819	0.0500	113	26. - 154.	6955	101246
TPH (Gasoline Range)	mg/kg	< 5.00	11.5	10.0	115	25. - 152.	6955	blank
TPH (Diesel Range)	mg/kg	< 10.0	34.0	40.0	85	33. - 146.	4258	04-A99474
VOA Surr 1,2-DCA-d4	% Rec				103	59 - 134	6300	
VOA Surr 1,2-DCA-d4	% Rec				91	59 - 134	6305	
VOA Surr Toluene-d8	% Rec				112	67 - 129	6300	
VOA Surr Toluene-d8	% Rec				110	67 - 129	6305	
VOA Surr, 4-BFB	% Rec				113	60 - 134	6300	
VOA Surr, 4-BFB	% Rec				109	60 - 134	6305	
VOA Surr, DBFM	% Rec				93	67 - 126	6300	
VOA Surr, DBFM	% Rec				87	67 - 126	6305	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.0819	0.0662	21.20	34.	6955
TPH (Gasoline Range)	mg/kg	11.5	10.6	8.14	32.	6955
TPH (Diesel Range)	mg/kg	34.0	28.6	17.25	50.	4258

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334

Laboratory Receipt Date: 6/29/04

VOA Surr 1,2-DCA-d4	% Rec	103.	6300
VOA Surr 1,2-DCA-d4	% Rec	100.	6305
VOA Surr Toluene-d8	% Rec	112.	6300
VOA Surr Toluene-d8	% Rec	111.	6305
VOA Surr, 4-BFB	% Rec	110.	6300
VOA Surr, 4-BFB	% Rec	115.	6305
VOA Surr, DBFM	% Rec	92.	6300
VOA Surr, DBFM	% Rec	86.	6305

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.100	0.108	108	71 - 127	6955
Benzene	mg/kg	0.100	0.106	106	71 - 127	6971
Toluene	mg/kg	0.100	0.105	105	73 - 121	6955
Toluene	mg/kg	0.100	0.103	103	73 - 121	6971
Ethylbenzene	mg/kg	0.100	0.112	112	71 - 127	6955
Ethylbenzene	mg/kg	0.100	0.112	112	71 - 127	6971
Ethylbenzene	mg/kg	0.100	0.117	117	71 - 127	8388
Xylenes, total	mg/kg	0.200	0.221	110	72 - 123	6955
Xylenes, total	mg/kg	0.200	0.220	110	72 - 123	6971
TPH (Gasoline Range)	mg/kg	10.0	10.6	106	76 - 122	6955
TPH (Gasoline Range)	mg/kg	10.0	11.8	118	76 - 122	6971
TPH (Diesel Range)	mg/kg	40.0	35.1	88	48 - 135	4258
VOA PARAMETERS						
Methyl-t-butyl ether	mg/kg	0.0500	0.0475	95	59 - 139	6300
Methyl-t-butyl ether	mg/kg	0.0500	0.0475	95	59 - 139	6305

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334

Laboratory Receipt Date: 6/29/04

VOA Surr 1,2-DCA-d4	% Rec	84	59 - 134	6300
VOA Surr 1,2-DCA-d4	% Rec	84	59 - 134	6305
VOA Surr Toluene-d8	% Rec	107	67 - 129	6300
VOA Surr Toluene-d8	% Rec	107	67 - 129	6305
VOA Surr, 4-BFB	% Rec	111	60 - 134	6300
VOA Surr, 4-BFB	% Rec	111	60 - 134	6305
VOA Surr, DBFM	% Rec	88	67 - 126	6300
VOA Surr, DBFM	% Rec	88	67 - 126	6305

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.0010	mg/kg	6955	7/ 2/04	9:55
Benzene	< 0.0010	mg/kg	6971	7/ 3/04	13:07
Toluene	< 0.0010	mg/kg	6955	7/ 2/04	9:55
Toluene	< 0.0010	mg/kg	6971	7/ 3/04	13:07
Ethylbenzene	< 0.0010	mg/kg	6955	7/ 2/04	9:55
Ethylbenzene	< 0.0010	mg/kg	6971	7/ 3/04	13:07
Ethylbenzene	< 0.0010	mg/kg	8388	7/ 6/04	11:24
Xylenes, total	< 0.0010	mg/kg	6955	7/ 2/04	9:55
Xylenes, total	< 0.0010	mg/kg	6971	7/ 3/04	13:07
TPH (Gasoline Range)	< 5.00	mg/kg	6955	7/ 2/04	9:55
TPH (Gasoline Range)	< 5.00	mg/kg	6971	7/ 3/04	13:07

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 4
Laboratory Receipt Date: 6/29/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
TPH (Diesel Range)	< 10.0	mg/kg	4258	7/ 1/04	14:50
UST surr-Trifluorotoluene	102.	% Recovery	6955	7/ 2/04	9:55
UST surr-Trifluorotoluene	97.	% Recovery	6971	7/ 3/04	13:07
UST surr-Trifluorotoluene	95.	% Recovery	8388	7/ 6/04	11:24
VOA PARAMETERS					
Methyl-t-butyl ether	< 0.0006	mg/kg	6300	7/ 1/04	13:18
Methyl-t-butyl ether	< 0.0006	mg/kg	6305	7/ 2/04	1:21
VOA Surr 1,2-DCA-d4	93.	% Rec	6300	7/ 1/04	13:18
VOA Surr 1,2-DCA-d4	110.	% Rec	6305	7/ 2/04	1:21
VOA Surr Toluene-d8	106.	% Rec	6300	7/ 1/04	13:18
VOA Surr Toluene-d8	107.	% Rec	6305	7/ 2/04	1:21
VOA Surr, 4-BFB	110.	% Rec	6300	7/ 1/04	13:18
VOA Surr, 4-BFB	116.	% Rec	6305	7/ 2/04	1:21
VOA Surr, DBFM	87.	% Rec	6300	7/ 1/04	13:18
VOA Surr, DBFM	96.	% Rec	6305	7/ 2/04	1:21

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 380478

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM **BC#**

Client Name : ETIC Engineering

Cooler Received/Opened On: 6/29/04 **Accessioned By:** Shane Gambill

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 0.9 **Degrees Celsius**
2. Were custody seals on outside of cooler?..... YES...NO....NA
   a. If yes, how many, what kind and where: 1/2/3/4 FRONT/BACK/SIDE
3. Were custody seals on containers and intact?..... NO...YES..NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA

    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

0521 _____ _____ _____ _____

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:

TestAmerica INCORPORATED

CHAIN OF CUSTODY RECORD

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

380478

Consultant Name: ETIC ENGINEERING
Address: 2285 MORELLO AVENUE
City/State/Zip: PLEASANT HILL, CA. 94523
ExxonMobil Project Mgr: BRYAN CAMPBELL
Telephone Number: (925) 602-4710 EXT. 24 Fax No.: (925) 602-4720
Sampler Name: (Print) TRACY IOB
Sampler Signature: Tracy Iob

Report To: BRYAN CAMPBELL
Invoice To: GENE ORTEGA (EXXONMOBIL TM)
Account #: 3865
PO #: 4504340684
Facility ID # 04-334
Site Address 2492 Castro Valley Blvd.
City, State Zip Castro Valley, CA

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	2 Unpreserved Liters	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: TPH-G/BTEX BY 8015B/8021B	TPH-D BY 8015B*	MTBE BY 8260B	TRPH BY 418.1M*	TOTAL LEAD BY 6010B				HOLD	RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results
MW2 9-9.5	6/25/14	0743	1				X												X		X	X	X			994	73						X	
MW2 12-12.5	6/25/14	0757	1				X												X										X					
MW2 13-13.5	6/25/14	0806	1				X												X		X	X	X				79						X	
MW2 16.5-17	6/25/14	0820	1				X												X		X	X	X				75						X	
MW2 19.5-20	6/25/14	0830	1				X												X		X	X	X				76						X	
MW3 8-8.5	6/25/14	0951	1				X												X		X	X	X				77						X	
MW3 10.5-11	6/25/14	0957	1				X												X		X	X	X				78						K	*
MW3 12-12.5	6/25/14	1008	1				X												X		X	X	X				74						X	
MW3 13.5-14	6/25/14	1010	1				X												X										X					
MW3 17-17.5	6/25/14	1026	1				X												X		X	X	X				80						X	

Special Instructions:
*USE SILICA-GEL CLEAN-UP

GLOBAL ID# TO600101278

EDF FILE REQUIRED

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
TRACY IOB	6/28/14	1530			
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				6/28/14	8:40

G:\Projects\04-334\Public\2004 Well Installations\04334 COC.xls

TestAmerica INCORPORATED

CHAIN OF CUSTODY RECORD

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

380478

Consultant Name: ETIC ENGINEERING
Address: 2285 MORELLO AVENUE
City/State/Zip: PLEASANT HILL, CA. 94523
ExxonMobil Project Mgr: BRYAN CAMPBELL
Telephone Number: (925) 602-4710 EXT. 24 Fax No.: (925) 602-4720
Sampler Name: (Print) TRACY IOB
Sampler Signature: Tracy IOB

Report To: BRYAN CAMPBELL
Invoice To: GENE ORTEGA (EXXONMOBIL TM)
Account #: 3865
PO #: 4504340684
Facility ID # 04-334
Site Address 2492 Castro Valley Blvd.
City, State Zip Castro Valley, CA

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	2 Unpreserved Liters	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: TPH-G/BTEX BY 8015B/8021B	TPH-D BY 8015B*	MTBE BY 8260B	TRPH BY 418.1M*	TOTAL LEAD BY 6010B						HOLD	RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results
MW3 19-19.5	6/25/04	1028	1				X												X		X	X	X				9	9	4	81				X	

Special Instructions:
***USE SILICA-GEL CLEAN-UP**

GLOBAL ID# TO600101278

EDF FILE REQUIRED

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
TRACY IOB	6/28/04	1530			
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				7/29/04	8:30

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

8/23/04

CASE NARRATIVE

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 04-334
Project Number: .
Laboratory Project Number: 386269.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Sample Identification	Lab Number	Collection Date
MW1	04-A127034	8/13/04
MW2	04-A127035	8/13/04
MW3	04-A127036	8/13/04
MW4	04-A127037	8/13/04

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 8/23/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services
Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 01168CA

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: WYNN PACULBA

Lab Number: 04-A127034
Sample ID: MW1
Sample Type: Water
Site ID: 04-334

Date Collected: 8/13/04
Time Collected:
Date Received: 8/17/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/l	0.50	1.0	8/19/04	5:22	A. Cobbs	8021B	4828
Ethylbenzene	ND	ug/l	0.5	1.0	8/19/04	5:22	A. Cobbs	8021B	4828
Toluene	0.7	ug/l	0.5	1.0	8/19/04	5:22	A. Cobbs	8021B	4828
Xylenes (Total)	1.0	ug/l	0.5	1.0	8/19/04	5:22	A. Cobbs	8021B	4828
TPH (Gasoline Range)	ND	ug/l	50.0	1.0	8/19/04	5:22	A. Cobbs	8015B	4828
TPH (Diesel Range)	71.	ug/l	53.	1.0	8/21/04	4:54	B. Yanna	8015B/3510	8374
VOLATILE ORGANICS									
Methyl-t-butyl ether	1.20	ug/l	0.50	1.0	8/19/04	21:17	B.Herford	8260B	7867

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	950. ml	1.00 ml	8/19/04		K. Turner	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	96.	50. - 141.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A127034
Sample ID: MW1
Project:

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	86.	62. - 136.
VOA Surr 1,2-DCA-d4	103.	71. - 128.
VOA Surr Toluene-d8	92.	77. - 119.
VOA Surr, 4-BFB	107.	79. - 123.
VOA Surr, DBFM	106.	78. - 124.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: WYNN PACULBA

Lab Number: 04-A127035
Sample ID: MW2
Sample Type: Water
Site ID: 04-334

Date Collected: 8/13/04
Time Collected:
Date Received: 8/17/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/l	0.50	1.0	8/19/04	5:52	A. Cobbs	8021B	4828
Ethylbenzene	ND	ug/l	0.5	1.0	8/19/04	5:52	A. Cobbs	8021B	4828
Toluene	0.8	ug/l	0.5	1.0	8/19/04	5:52	A. Cobbs	8021B	4828
Xylenes (Total)	1.0	ug/l	0.5	1.0	8/19/04	5:52	A. Cobbs	8021B	4828
TPH (Gasoline Range)	ND	ug/l	50.0	1.0	8/19/04	5:52	A. Cobbs	8015B	4828
TPH (Diesel Range)	57.	ug/l	51.	1.0	8/21/04	5:10	B. Yanna	8015B/3510	8374
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	ug/l	0.50	1.0	8/19/04	9:17	B.Herford	8260B	6417

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	975. ml	1.00 ml	8/19/04		K. Turner	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	81.	50. - 141.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A127035
Sample ID: MW2
Project:

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	89.	62. - 136.
VOA Surr 1,2-DCA-d4	99.	71. - 128.
VOA Surr Toluene-d8	91.	77. - 119.
VOA Surr, 4-BFB	107.	79. - 123.
VOA Surr, DBFM	102.	78. - 124.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: WYNN PACULBA

Lab Number: 04-A127036
Sample ID: MW3
Sample Type: Water
Site ID: 04-334

Date Collected: 8/13/04
Time Collected:
Date Received: 8/17/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	100.	ug/l	0.50	1.0	8/19/04	6:22	A. Cobbs	8021B	4828
Ethylbenzene	187.	ug/l	0.5	1.0	8/19/04	6:22	A. Cobbs	8021B	4828
Toluene	2.0	ug/l	0.5	1.0	8/19/04	6:22	A. Cobbs	8021B	4828
Xylenes (Total)	59.6	ug/l	0.5	1.0	8/19/04	6:22	A. Cobbs	8021B	4828
TPH (Gasoline Range)	1440	ug/l	50.0	1.0	8/19/04	6:22	A. Cobbs	8015B	4828
TPH (Diesel Range)	352.	ug/l	51.	1.0	8/21/04	5:26	B. Yanna	8015B/3510	8374
VOLATILE ORGANICS									
Methyl-t-butyl ether	ND	ug/l	0.50	1.0	8/19/04	9:47	B.Herford	8260B	6417

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	975. ml	1.00 ml	8/19/04		K. Turner	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	67.	50. - 141.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A127036
Sample ID: MW3
Project:

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	103.	62. - 136.
VOA Surr 1,2-DCA-d4	98.	71. - 128.
VOA Surr Toluene-d8	97.	77. - 119.
VOA Surr, 4-BFB	101.	79. - 123.
VOA Surr, DBFM	102.	78. - 124.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: WYNN PACULBA

Lab Number: 04-A127037
Sample ID: MW4
Sample Type: Water
Site ID: 04-334

Date Collected: 8/13/04
Time Collected:
Date Received: 8/17/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/l	0.50	1.0	8/19/04	6:52	A. Cobbs	8021B	4828
Ethylbenzene	ND	ug/l	0.5	1.0	8/19/04	6:52	A. Cobbs	8021B	4828
Toluene	0.8	ug/l	0.5	1.0	8/19/04	6:52	A. Cobbs	8021B	4828
Xylenes (Total)	1.1	ug/l	0.5	1.0	8/19/04	6:52	A. Cobbs	8021B	4828
TPH (Gasoline Range)	ND	ug/l	50.0	1.0	8/19/04	6:52	A. Cobbs	8015B	4828
TPH (Diesel Range)	72.	ug/l	56.	1.0	8/21/04	5:42	B. Yanna	8015B/3510	8374
VOLATILE ORGANICS									
Methyl-t-butyl ether	2.80	ug/l	0.50	1.0	8/19/04	21:47	B.Herford	8260B	7867

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	900. ml	1.00 ml	8/19/04		K. Turner	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	81.	50. - 141.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A127037
Sample ID: MW4
Project:

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	87.	62. - 136.
VOA Surr 1,2-DCA-d4	105.	71. - 128.
VOA Surr Toluene-d8	92.	77. - 119.
VOA Surr, 4-BFB	107.	79. - 123.
VOA Surr, DBFM	111.	78. - 124.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 1
Laboratory Receipt Date: 8/17/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Benzene	mg/l	< 0.00050	0.0461	0.0500	92	53. - 159.	4828	04-A126940
Toluene	mg/l	< 0.0005	0.0459	0.0500	92	54. - 156.	4828	04-A126940
Ethylbenzene	mg/l	< 0.0005	0.0465	0.0500	93	50. - 159.	4828	04-A126940
Xylenes (Total)	mg/l	< 0.0005	0.0881	0.100	88	53. - 151.	4828	04-A126940
TPH (Gasoline Range)	mg/l	< 0.0500	1.09	1.00	109	70. - 157.	4828	04-A126940
TPH (Diesel Range)	mg/l	< 0.050	0.730	1.00	73	10. - 143.	8374	blank
BTEX/GRO Surr., a,a,a-TFT	% Recovery				94	62 - 136	4828	
VOA Surr 1,2-DCA-d4	% Rec				110	71 - 128	6417	
VOA Surr 1,2-DCA-d4	% Rec				108	71 - 128	7867	
VOA Surr Toluene-d8	% Rec				100	77 - 119	6417	
VOA Surr Toluene-d8	% Rec				102	77 - 119	7867	
VOA Surr, 4-BFB	% Rec				93	79 - 123	6417	
VOA Surr, 4-BFB	% Rec				94	79 - 123	7867	
VOA Surr, DBFM	% Rec				115	78 - 124	6417	
VOA Surr, DBFM	% Rec				114	78 - 124	7867	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.0461	0.0499	7.92	21.	4828
Toluene	mg/l	0.0459	0.0496	7.75	25.	4828

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 2
Laboratory Receipt Date: 8/17/04

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Ethylbenzene	mg/l	0.0465	0.0503	7.85	25.	4828
Xylenes (Total)	mg/l	0.0881	0.0945	7.01	24.	4828
TPH (Gasoline Range)	mg/l	1.09	1.05	3.74	24.	4828
TPH (Diesel Range)	mg/l	0.730	0.816	11.13	57.	B374
BTEX/GRO Surr., a,a,a-TFT	% Recovery		95.			4828
VOA Surr 1,2-DCA-d4	% Rec		107.			6417
VOA Surr 1,2-DCA-d4	% Rec		98.			7867
VOA Surr Toluene-d8	% Rec		99.			6417
VOA Surr Toluene-d8	% Rec		100.			7867
VOA Surr, 4-BFB	% Rec		95.			6417
VOA Surr, 4-BFB	% Rec		92.			7867
VOA Surr, DBFM	% Rec		112.			6417
VOA Surr, DBFM	% Rec		104.			7867

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.100	0.0905	90	76 - 118	4828
Toluene	mg/l	0.100	0.0904	90	72 - 119	4828
Ethylbenzene	mg/l	0.100	0.0894	89	72 - 119	4828
Xylenes (Total)	mg/l	0.200	0.176	88	71 - 123	4828
TPH (Gasoline Range)	mg/l	1.00	1.09	109	72 - 122	4828

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 3
Laboratory Receipt Date: 8/17/04

BTEX/GRO Surr., a,a,a-TFT	% Recovery			96	62 - 136	4828
UST PARAMETERS						
TPH (Diesel Range)	mg/l	1.00	0.786	79	10 - 143	8374
VOA PARAMETERS						
Methyl-t-butyl ether	mg/l	0.0500	0.0592	118	70 - 130	6417
Methyl-t-butyl ether	mg/l	0.0500	0.0607	121	70 - 130	7867
VOA Surr 1,2-DCA-d4	% Rec			97	71 - 128	6417
VOA Surr 1,2-DCA-d4	% Rec			104	71 - 128	7867
VOA Surr Toluene-d8	% Rec			99	77 - 119	6417
VOA Surr Toluene-d8	% Rec			99	77 - 119	7867
VOA Surr, 4-BFB	% Rec			95	79 - 123	6417
VOA Surr, 4-BFB	% Rec			92	79 - 123	7867
VOA Surr, DBFM	% Rec			105	78 - 124	6417
VOA Surr, DBFM	% Rec			112	78 - 124	7867

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.00050	mg/l	4828	8/18/04	20:48
Toluene	< 0.0005	mg/l	4828	8/18/04	20:48
Ethylbenzene	< 0.0005	mg/l	4828	8/18/04	20:48
Xylenes (Total)	< 0.0005	mg/l	4828	8/18/04	20:48
TPH (Gasoline Range)	< 0.0500	mg/l	4828	8/18/04	20:48

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 4
Laboratory Receipt Date: 8/17/04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
TPH (Diesel Range)	< 0.050	mg/l	8374	8/21/04	1:43
BTEX/GRO Surr., a,a,a-TFT	88.	% Recovery	4828	8/18/04	20:48
VOA PARAMETERS					
Methyl-t-butyl ether	< 0.00013	mg/l	6417	8/19/04	2:46
Methyl-t-butyl ether	< 0.00013	mg/l	7867	8/19/04	16:45
VOA Surr 1,2-DCA-d4	107.	% Rec	6417	8/19/04	2:46
VOA Surr 1,2-DCA-d4	111.	% Rec	7867	8/19/04	16:45
VOA Surr Toluene-d8	96.	% Rec	6417	8/19/04	2:46
VOA Surr Toluene-d8	99.	% Rec	7867	8/19/04	16:45
VOA Surr, 4-BFB	106.	% Rec	6417	8/19/04	2:46
VOA Surr, 4-BFB	102.	% Rec	7867	8/19/04	16:45
VOA Surr, DBFM	112.	% Rec	6417	8/19/04	2:46
VOA Surr, DBFM	113.	% Rec	7867	8/19/04	16:45

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 386269

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM

BC#

Client Name : EIC

Cooler Received/Opened On: 8/17/04 Accessioned By: Mike McBride

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 2.5 Degrees Celsius
2. Were custody seals on outside of cooler?..... (YES)...NO....NA
   a. If yes, how many, what kind and where: 1 Front
3. Were custody seals on containers and intact?..... (NO)..YES...NA
4. Were the seals intact, signed, and dated correctly?..... (YES)..NO...NA
5. Were custody papers inside cooler?..... (YES)..NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... (YES)...NO...NA
7. Did you sign the custody papers in the appropriate place?..... (YES)...NO...NA
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... (YES)..NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... (YES)..NO...NA
12. Did all container labels and tags agree with custody papers?..... (YES)..NO...NA
13. Were correct containers used for the analysis requested?..... (YES)..NO...NA
14. a. Were VOA vials received?..... (YES)..NO...NA
    b. Was there any observable head space present in any VOA vial?..... (NO)..YES...NA
15. Was sufficient amount of sample sent in each container?..... (YES)..NO...NA
16. Were correct preservatives used?..... (YES)..NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...(NA)
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

7540						
(Fed-Ex)	UPS	Velocity	Airborne	Route	Off-street	Misc.

19. If a Non-Conformance exists, see attached or comments below:

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

CHAIN OF CUSTODY RECORD
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

386269

Consultant Name: ETIC ENGINEERING
Address: 2285 MORELLO AVENUE
City/State/Zip: PLEASANT HILL, CA 94523
ExxonMobil Project Mgr: BRYAN CAMPBELL
Telephone Number: (925) 602-4710 EXT. 24 Fax No.: (925) 602-4720
Sampler Name: (Print) [illegible]
Sampler Signature:

Report To: BRYAN CAMPBELL
Invoice To: GENE ORTEGA (EXXONMOBIL TM)
Account #: 3865
PO #: 4504340684
Facility ID # 04-334
Site Address 2492 CASTRO VALLEY BOULEVARD
City, State Zip CASTRO VALLEY, CA

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: TPH-G BY 8015B	TPH-D BY 8015B/3510 *	BTEX BY 8012B	MTBE BY 8260B							RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results
MW1	8/13		8				X		X						X						X	X	X	X	04A	12	70	34			X	
MW2			8				X		X						X						X	X	X	X			/	35			X	
MW3			8				X		X						X						X	X	X	X			/	36			X	
MW4			8				X		X						X						X	X	X	X		12	70	37			X	

Special Instructions:
GLOBAL ID# T0600101278
EDF FILE REQUIRED
* USE SILICAGEL CLEANUP FOR TPH-D ANALYSIS.

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8/13/04	14:30			
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			[signature]	8-17-04	0800

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

7/ 7/04

CASE NARRATIVE

RECEIVED
JUL 16 2004
ETIC ENGINEERING

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 04-334
Project Number: .
Laboratory Project Number: 380482.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Sample Identification	Lab Number	Collection Date
DRUM 1,2,3	04-A99641	6/23/04
DRUM 4,5,6	04-A99642	6/24/04
DRUM 7,8,9	04-A99643	6/25/04

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Roxanne Connor Report Date: 7/ 7/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 01168CA

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A99641
Sample ID: DRUM 1,2,3
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/23/04
Time Collected: 16:55
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	82.5	%		1	6/29/04	14:32	B.Plett	CLP	5127
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 3/04	20:04	C. Wilson	8021B	8086
Ethylbenzene	0.0017	mg/kg	0.001	1	7/ 3/04	20:04	C. Wilson	8021B	8086
Toluene	ND	mg/kg	0.001	1	7/ 3/04	20:04	C. Wilson	8021B	8086
Xylenes, total	0.0016	mg/kg	0.001	1	7/ 3/04	20:04	C. Wilson	8021B	8086
TPH (Gasoline Range)	ND	mg/kg	4.97	1	7/ 3/04	20:04	C. Wilson	8015B	8086
METALS									
Lead	8.46	mg/kg	0.98	1	6/30/04	15:49	G.McCord	6010B	2028

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BTX Prep	5.03 g	5.0 ml	6/29/04	15:35	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99641
Sample ID: DRUM 1,2,3
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	99.	60. - 130.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A99642
Sample ID: DRUM 4,5,6
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/24/04
Time Collected: 17:53
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	84.5	%		1	6/29/04	14:32	B.Plett	CLP	5127
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 2/04	6:01	C. Wilson	8021B	5666
Ethylbenzene	ND	mg/kg	0.001	1	7/ 2/04	6:01	C. Wilson	8021B	5666
Toluene	ND	mg/kg	0.001	1	7/ 2/04	6:01	C. Wilson	8021B	5666
Xylenes, total	ND	mg/kg	0.001	1	7/ 2/04	6:01	C. Wilson	8021B	5666
TPH (Gasoline Range)	ND	mg/kg	5.03	1	7/ 2/04	6:01	C. Wilson	8015B	5666
METALS									
Lead	11.5	mg/kg	0.96	1	6/30/04	15:49	G.McCord	6010B	2028

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BTX Prep	4.97 g	5.0 ml	6/29/04	15:35	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99642
Sample ID: DRUM 4,5,6
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	101.	60. - 130.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A99643
Sample ID: DRUM 7,8,9
Sample Type: Soil
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 11:23
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	91.6	%		1	6/29/04	14:32	B.Plett	CLP	5127
ORGANIC PARAMETERS									
Benzene	ND	mg/kg	0.001	1	7/ 6/04	13:33	C. Wilson	8021B	8097
Ethylbenzene	0.0035	mg/kg	0.001	1	7/ 6/04	13:33	C. Wilson	8021B	8097
Toluene	ND	mg/kg	0.001	1	7/ 6/04	13:33	C. Wilson	8021B	8097
Xylenes, total	0.0042	mg/kg	0.001	1	7/ 6/04	13:33	C. Wilson	8021B	8097
TPH (Gasoline Range)	ND	mg/kg	5.02	1	7/ 6/04	13:33	C. Wilson	8015B	8097
METALS									
Lead	167	mg/kg	0.96	1	6/30/04	15:49	G.McCord	6010B	2028

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BTX Prep	4.98 g	5.0 ml	6/29/04	15:35	C. Wilson	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 04-A99643
Sample ID: DRUM 7,8,9
Project:

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	114.	60. - 130.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 1
Laboratory Receipt Date: 6/29/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Benzene	mg/kg	0.0093	0.0355	0.0500	52	26. - 154.	5666	99643
Benzene	mg/kg	< 0.0010	0.0551	0.0500	110	26. - 154.	8086	blank
Toluene	mg/kg	0.0071	0.0312	0.0500	48	22. - 148.	5666	99643
Toluene	mg/kg	< 0.0010	< 0.0010	0.0500	N/A	22. - 148.	8086	blank
Ethylbenzene	mg/kg	0.0121	0.0454	0.0500	67	16. - 151.	5666	99643
Ethylbenzene	mg/kg	< 0.0010	0.0647	0.0500	129	16. - 151.	8086	blank
Xylenes, total	mg/kg	0.0129	0.0549	0.100	42#	45. - 155.	5666	99643
Xylenes, total	mg/kg	< 0.0010	0.0566	0.100	57	45. - 155.	8086	blank
TPH (Gasoline Range)	mg/kg	< 5.00	11.1	10.0	111	25. - 152.	5666	99643
TPH (Gasoline Range)	mg/kg	< 5.00	12.0	10.0	120	25. - 152.	8086	blank
METALS								
Lead	mg/kg	12.3	107.	100.	95	80 - 120	2028	'100384

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.0355	< 0.0010	189.04#	34.	5666
Benzene	mg/kg	0.0551	0.0532	3.51	34.	8086
Toluene	mg/kg	0.0312	0.0380	19.65	39.	5666
Toluene	mg/kg	< 0.0010	< 0.0010	N/A	39.	8086
Ethylbenzene	mg/kg	0.0454	0.0828	58.35#	40.	5666

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334

Laboratory Receipt Date: 6/29/04

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Ethylbenzene	mg/kg	0.0647	0.0631	2.50	40.	8086
Xylenes, total	mg/kg	0.0549	0.110	66.83#	44.	5666
Xylenes, total	mg/kg	0.0566	0.0550	2.87	44.	8086
TPH (Gasoline Range)	mg/kg	11.1	11.7	5.26	32.	5666
TPH (Gasoline Range)	mg/kg	12.0	11.6	3.39	32.	8086
METALS						
Lead	mg/kg	107.	106.	0.94	20	2028

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.100	0.0980	98	71 - 127	5666
Benzene	mg/kg	0.100	0.104	104	71 - 127	8086
Benzene	mg/kg	0.100	0.0947	95	71 - 127	8097
Toluene	mg/kg	0.100	0.0945	94	73 - 121	5666
Toluene	mg/kg	0.100	0.101	101	73 - 121	8086
Toluene	mg/kg	0.100	0.0958	96	73 - 121	8097
Ethylbenzene	mg/kg	0.100	0.101	101	71 - 127	5666
Ethylbenzene	mg/kg	0.100	0.108	108	71 - 127	8086
Ethylbenzene	mg/kg	0.100	0.102	102	71 - 127	8097
Xylenes, total	mg/kg	0.200	0.199	100	72 - 123	5666
Xylenes, total	mg/kg	0.200	0.210	105	72 - 123	8086
Xylenes, total	mg/kg	0.200	0.194	97	72 - 123	8097
TPH (Gasoline Range)	mg/kg	10.0	11.7	117	76 - 122	5666
TPH (Gasoline Range)	mg/kg	10.0	11.6	116	76 - 122	8086
TPH (Gasoline Range)	mg/kg	10.0	10.2	102	76 - 122	8097

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA

Project Number:
Project Name: EXXONMOBIL 04-334

Laboratory Receipt Date: 6/29/04

METALS						
Lead	mg/kg	100.	100.	100	80 - 120	2028

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.0010	mg/kg	5666	7/ 1/04	20:46
Benzene	< 0.0010	mg/kg	8086	7/ 3/04	19:34
Benzene	< 0.0010	mg/kg	8097	7/ 6/04	13:01
Toluene	< 0.0010	mg/kg	5666	7/ 1/04	20:46
Toluene	< 0.0010	mg/kg	8086	7/ 3/04	19:34
Toluene	< 0.0010	mg/kg	8097	7/ 6/04	13:01
Ethylbenzene	< 0.0010	mg/kg	5666	7/ 1/04	20:46
Ethylbenzene	< 0.0010	mg/kg	8086	7/ 3/04	19:34
Ethylbenzene	< 0.0010	mg/kg	8097	7/ 6/04	13:01
Xylenes, total	< 0.0010	mg/kg	5666	7/ 1/04	20:46
Xylenes, total	< 0.0010	mg/kg	8086	7/ 3/04	19:34
Xylenes, total	< 0.0010	mg/kg	8097	7/ 6/04	13:01
TPH (Gasoline Range)	< 5.00	mg/kg	5666	7/ 1/04	20:46
TPH (Gasoline Range)	< 5.00	mg/kg	8086	7/ 3/04	19:34
TPH (Gasoline Range)	< 5.00	mg/kg	8097	7/ 6/04	13:01

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 4
Laboratory Receipt Date: 6/29/04

UST surr-Trifluorotoluene	104.	% Recovery	5666	7/ 1/04	20:46
UST surr-Trifluorotoluene	100.	% Recovery	8086	7/ 3/04	19:34
UST surr-Trifluorotoluene	96.	% Recovery	8097	7/ 6/04	13:01
METALS					
Lead	< 0.36	mg/kg	2028	6/30/04	15:49

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 380482

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM

BC#

380482

Client Name : ETIC Engineering

Cooler Received/Opened On: 6/29/04 Accessioned By: Shane Gambill

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 0.9 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO....NA
   a. If yes, how many, what kind and where: 1/2/3/4 FRONT/BACK/SIDE
3. Were custody seals on containers and intact?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA

    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

0521 _____ _____ _____ _____

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

CHAIN OF CUSTODY RECORD

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

380482

Consultant Name: ETIC ENGINEERING
Address: 2285 MORELLO AVENUE
City/State/Zip: PLEASANT HILL, CA. 94523
Mobil Project Mgr: BRYAN CAMPBELL
Telephone Number: (925) 602-4710 EXT. 24 Fax No.: (925) 602-4720
Sampler Name: (Print) Bryan Campbell
Sampler Signature:

Report To: BRYAN CAMPBELL
Invoice To: GENE ORTEGA (EXXONMOBIL TM)
Account #: 3865
PO #: 4504340684
Facility ID # 04-334
Site Address 2492 Castro Valley Blvd.
City, State Zip Castro Valley, CA

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	2 Unpreserved Liters	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: TPH-G/BTEX BY 8015B/8021B	TPH-D BY 8015B*	MTBE BY 8260B	TRPH BY 418.1M*	TOTAL LEAD BY 6010B						HOLD	RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results
DRUM 1 49641	6/23/04	1655	1				X												X		X				X									X
DRUM 2		1655	1				X												X		X				X									X
DRUM 3		1710	1				X												X		X				X									X
DRUM 4 642	↓	1720	1				X												X		X				X									X
DRUM 5	6/24/04	1700	1				X												X		X				X									X
DRUM 6	6/24/04	1753	1				X												X		X				X									X
DRUM 7 643	6/25/04	1126	1				X												X		X				X									X
DRUM 8	6/25/04	1130	1				X												X		X				X									X
DRUM 9	6/25/04	1123	1				X												X		X				X									X

Drum 1-3
Drum 4-6
Drum 7-9

Special Instructions: GLOBAL ID# TO600101278 EDF FILE REQUIRED
***USE SILICA-GEL CLEAN-UP** Composite Drum samples Drum 1-3 into one for analysis, Drum 4-6 into one for analysis, and Drum 7-9 into one for analysis.

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
	6/28/04	1530			
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				6/29/04	8:20

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

8/ 5/04

CASE NARRATIVE

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 04-334
Project Number: .
Laboratory Project Number: 384364.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

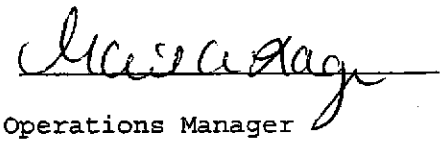
Sample Identification	Lab Number	Collection Date
DRUM 7,8,9	04-A117628	6/25/04

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:  Report Date: 8/ 5/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services
Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 01168CA

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Project:
Project Name: EXXONMOBIL 04-334
Sampler: BRYAN CAMPBELL

Lab Number: 04-A117628
Sample ID: DRUM 7,8,9
Sample Type: Solid waste
Site ID: 04-334

Date Collected: 6/25/04
Time Collected: 11:26
Date Received: 6/29/04
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	0.0590	mg/l	0.0050	0.0050	1	8/ 5/04	9:58	C. Martin	6010B	2104

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
SPLP Extraction			8/ 2/04		B.Minor	1312

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.
All water analysis performed on a STLC (CA WET) extraction.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 1
Laboratory Receipt Date: 7/30/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
METALS								
Lead	mg/l	0.0590	0.0920	0.0500	66#	75. - 125.	2104	04-A117628

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
METALS						
Lead	mg/l	0.0920	0.0880	4.44	20	2104

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						
Lead	mg/l	0.0500	0.0500	100	80 - 120	2104

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number:
Project Name: EXXONMOBIL 04-334
Page: 2
Laboratory Receipt Date: 7/30/04

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
METALS					
Lead	< 0.0029	mg/l	2104	8/ 5/04	9:58

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 384364

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM **BC#** 384364

Client Name : ETIC Engineering

Cooler Received/Opened On: 6/29/04 **Accessioned By:** Shane Gambill

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 0.9 **Degrees Celsius**
2. Were custody seals on outside of cooler?..... YES...NO....NA
   a. If yes, how many, what kind and where: 1/2/3/4 FRONT/BACK/SIDE
3. Were custody seals on containers and intact?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

0521						
Fed-Ex	UPS	Velocity	Airborne	Route	Off-street	Misc.

19. If a Non-Conformance exists, see attached or comments below:

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

CHAIN OF CUSTODY RECORD
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

384364

ExxonMobil

~~380482~~ [initials] 6/30/04

Consultant Name:	ETIC ENGINEERING
Address:	2285 MORELLO AVENUE
City/State/Zip:	PLEASANT HILL, CA. 94523
Mobil Project Mgr:	BRYAN CAMPBELL
Telephone Number:	(925) 602-4710 EXT. 24
Fax No.:	(925) 602-4720
Sampler Name: (Print)	Bryan Campbell
Sampler Signature:	[signature]

Report To:	BRYAN CAMPBELL
Invoice To:	GENE ORTEGA (EXXONMOBIL TM)
Account #:	3865
PO #:	4504340684
Facility ID #	04-334
Site Address	2492 Castro Valley Blvd.
City, State Zip	Castro Valley, CA

See attached

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	2 Unpreserved Liters	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	TPH/BTEX BY 8015B/8021B	TPH BY 8015B*	MTBE BY 8260B	TPH BY 418.1M*	TOTAL LEAD BY 6010B	Notes	HOLD	RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results
Drum 1 ~~[illegible]~~	6/23/04	1655	1				X												X		X				X					X	
Drum 2		1655	1				X												X		X				X	Drum 1-3				X	
Drum 3		1710	1				X												X		X				X					X	
Drum 4 ~~647~~		1720	1				X												X		X				X					X	
Drum 5	6/24/04	1700	1				X												X		X				X	Drum 4-6				X	
Drum 6	6/24/04	1753	1				X												X		X				X					X	
Drum 7 ~~647~~	6/25/04	1126	1				X												X		X				X					X	
Drum 8	6/25/04	1130	1																X		X				X	Drum 7-9				X	
Drum 9	6/25/04	1123	1																X		X				X					X	

04-A117628-1

Special Instructions:
GLOBAL ID# TO600101278 EDF FILE REQUIRED
*USE SILICA-GEL CLEAN-UP Composite ~~drums~~ samples Drum 1-3 into one for analysis, Drum 4-6 into one for analysis, and Drum 7-9 into one for analysis.

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/28/04	1530			

Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			[signature]	6/29/04	8:20

G:\Projects\04-334\Public\2004 Well Installations\04334 COC.xls

TestAmerica
INCORPORATED

Sample NonConformance/COC Revision Form

Initiated by:	Lklingensmith	**Phone:**	925-602-4710	NC Closed	☑
Client Name:	ETIC ENGINEERI	**Sample Range:**	99643	Date Closed	8/2/2004
Client Contact:	Bryan Campbell	**SDG:**	380482		
Client Account:	3865	**Analyst:**	224		
Date Created:	7/30/2004	**Supervisor:**	Mark Hollingsworth		
NC #:		**NC Type:**			
Project Name:	04-334	**Terminal Manager:**	GENE ORTEGA		
Project Number:					
Project Origin					
Regulatory :					

Process: Retag for additional analysis (Sample already completed) **Corrected By:** Jim Jacobs

Action: Process Completed **Closed:** ☑ Lklingensmith

Comments:

Comment added by: Lklingensmith on 8/2/2004 7:53:37 AM
NC closed with out comments

****

Comment added by: Lklingensmith on 8/2/2004 7:53:29 AM
Process Closed without Comment

****

Comment added by: jdjacobs on 7/30/2004 5:26:34 PM
DONE SDG 384364 117628

****

For sample 99643, please, re-tag and run STLC for Pb. Tag for 3 day TAT with 100% rush charges. ETIC(3865)
From: Bryan Campbell [mailto:BCampbell@eticeng.com]
Sent: Friday, July 30, 2004 4:30 PM
To: Leah Klingensmith
Cc: Mark Peterson; Tracy Iob
Subject: 04-334: Drum Samples
Leah,
For laboratory project number 380482, the landfill wants us to run lead STLC for the sample called "DRUM 7,8,9". Please let me know how soon we can run that sample so that we can have the waste removed from the site as soon as possible.

Appendix H

Waste Documentation

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 07305

2. Page 1 of 1

3. Generator's Name and Mailing Address
EXXON #04-334
2492 CASTRO VALLEY BLVD
CASTRO VALLEY, CA 94546

MAIL: EXXONMOBIL REFINING & SUPPLY
25 A CRESCENT WAY # 407
PLEASANT HILL, CA 94523
ATTN: GENE ORTEGA

4. Generator's Phone ((925) 246-8747

5. Transporter 1 Company Name
DILLARD ENVIRONMENTAL SVCS.

6. US EPA ID Number
CAD982523433

A. State Transporter's ID

B. Transporter 1 Phone (925) 634-6850

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
REPUBLIC
4001 N. VASCO ROAD
LIVERMORE, CA 94551

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone
(925) 447-0491

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON HAZ SOIL (DRILL CUTTINGS), NONE, (pf:)	009	DM	4800	P
b.				
c.				
d.				

GENERATOR

G. Additional Descriptions for Materials Listed Above
11a.
11b.
11c.
11d.

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Contact(949)753-5826 DILLARD
JOB# 911-028 PO# DILLARD 2004

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Jeremiah McNeir
Signature:
Date: Month 7 Day 30 Year 04

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Sabrina Reeves
Signature: Reeves
Date: Month 7 Day 30 Year 04

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

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name
Signature
Date: Month Day Year

NON-HAZARDOUS WASTE

REPUBLIC SERVICES VASCO ROAD, LLC
4001 N. Vasco Road, Livermore, California 94551 • (925) 447-0491

1-98630

TICKET: 554162
CUSTOMER: DILL / DILLARD/EXXON
TRUCK: 60
ACCT#: 5007814
PROFILE #: 1002636

DATE: 07/30/2004
TIME: 12:33 - 12:33

GENERATOR: 1002636 / EXXON MOBIL STATION 4-334
ORIGIN: 2 / CASTRO VALLEY
LICENSE:
COMMENT:

GROSS: 0 LBS
TARE: 0 LBS
NET: 0 LBS

WASTE:	QUANTITY	UNIT	RATE	AMOUNT
SOILD / SOIL DRUMS	6.00	U		

Tax

I certify that I have not disposed of any liquid or hazardous waste.

Total:
Raymond Yulo

Weighmaster:

DRIVER

DRIVER

All children must remain in vehicles. Absolutely no salvaging allowed.

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

REPUBLIC SERVICES VASCO ROAD, LLC
4001 N. Vasco Road, Livermore, California 94551 • (925) 447-0491

202829

TICKET: 557967
CUSTOMER: DILL / DILLARD/EXXON
TRUCK: 195
ACCT#: 5007814
PROFILE #: 1002636

DATE: 08/11/2004
TIME: 08:51 - 08:51

GENERATOR: 1002636 / EXXON MOBIL STATION 4-334
ORIGIN: 2 / CASTRO VALLEY
LICENSE:
COMMENT:

GROSS: 0 LBSManual
TARE: 0 LBS
NET: 0 LBS

WASTE:	QUANTITY	UNIT	RATE	AMOUNT
SOILD \ SOIL DRUMS	3.00	U		

RECEIVED
AUG 18 2004
BY:

Tax:

Total: 205356

I certify that I have not disposed of any liquid or hazardous waste.

Mark Pursell

Weighmaster:

DRIVER

DRIVER

All children must remain in vehicles. Absolutely no salvaging allowed.

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

SHIPPER NO. B 003777

STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable

CARRIER NO.

DATE: 7/9/04

E ETIC ENGINEERING INC. (SCAC)

SIGNEE	**FROM** SHIPPER
ET	STREET
TINATION	ORIGIN
ROMIC ENVIRONMENTAL TECH. CORP. 2081 BAY ROAD EAST PALO ALTO, STATE 94303 ZIP	EXXONMOBIL REFINING&SUPPLY CO. 25A CRESENT DRIVE #407 PLEASANT HILL CA STATE 523 ZIP

E:

U.S. DOT Hazmat Reg. No.	VEHICLE NUMBER

NO. PING IIT	HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
		GROUNDWATER MONITORING WELL PURGE WATER PROFILE #: 301560 GALLONS: 50 HANDLING CODE: 01 RECEIVED BY: T.O. 07/09/04 PLACARDS TENDERED: YES ___ NO _X_ P.O. #: NC4315 EWR #: STORE NAME/#: 04-334 STORE ADDRESS: 2492 Castro Valley Blvd Castro Valley, CA				

T C.O.D. TO:

RESS:

STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

shipment moves between two ports by a carrier by water, the law s that the bill of lading shall state whether it is "carrier's or shipper's k".

where the rate is dependent on value, shippers are required to state ally in writing the agreed or declared value of the property.

greed or declared value of the property is hereby specifically stated by hipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

IVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of y of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the ns not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

PER: Dag Frank EXXONMOBIL REFINING & SUPPLY CO.	CARRIER: Dag Frank ETIC ENGINEERING INC
	PER:
	DATE: 7/9/04

RGENCY RESPONSE PHONE NUMBER: ( )

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

With "X" to designate Hazardous Material as defined in The Department of Transportation ations Governing Transportation of Hazardous Materials. The use of this column is an optional od of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b)

SHIPPER NO. B 005908

STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable

CARRIER NO.

DATE 8-13-04

...ENGINEERING INC. (SCAC)

TO
CONSIGNEE ROMIC ENVIRONMENTAL TECH.,CORP.
STREET 2081 BAY ROAD
DESTINATION EAST PALO ALTO, CA 94303 ZIP

FROM
SHIPPER EXXONMOBIL REFINING&SUPPLY CO.
STREET 25A CRESENT DRIVE #407
ORIGIN PLEASANT HILL CA 94523 ZIP

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER

ST0000000368

No. Shipping Units	HM	Description of articles, special marks, and exceptions	WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
		GROUNDWATER MONITORING WELL PURGE WATER PROFILE #: 301560 GALLONS: 25 HANDLING CODE: 01 RECEIVED BY [signature] 08/13/04 PLACARDS TENDERED: YES ___ NO X P.O. #: NC4353 EWR #: STORE NAME/#: 04334 STORE ADDRESS: 2492 CASTRO VALLEY BLVD CASTRO VALLEY				

REMIT C.O.D. TO:
ADDRESS:
CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding ______ per ______

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES

Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. PER:

SHIPPER: EXXONMOBIL REFINING & SUPPLY CO.
PER: [signature]

CARRIER: ETIC ENGINEERING INC.
PER: [signature]
DATE: 8-13-04

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in the Department of Transportation Regulations Governing the Transportation of Hazardous Materials. The use of this column is an optional method for identifying hazardous materials on bills of lading per Section 172.201 and 172.202...

11-BLC-94 (Rev. 10/08)