EXXON COMPANY, U.S.A.

ENVIRONMENTAL PROTECTION
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EXXONMOBIL • REFINING AND SUPPLY
Safety, Health and Environment
Environmental Engineering

P.O. Box 4032 • Concord, CA 94524-4032

DARIN L. ROUSE
Senior Engineer

(925) 246-8768
(925) 246-8798 Facsimile
darin.l.rouse@exxon.com

May 24, 2000

Mr. Scott Seery
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

RE: Exxon RAS #7-0235/2225 Telegraph Avenue, Oakland, California.

Dear Mr. Seery:

Attached for your review and comment is a letter report entitled ***Soil and Groundwater Investigation Report,*** dated May 11, 2000, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and presents the results of a soil and groundwater investigation at the subject site. Additionally, the attached document includes a proposed scope of work for installation of a groundwater monitoring well.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,

Darin L. Rouse
Senior Engineer

Attachment: ERI's Soil and Groundwater Investigation Report, dated May 11, 2000.

cc: w/attachment
Mr. Stephen Hill - California Regional Water Quality Control Board-San Francisco Bay Region

w/o attachment
Mr. James F. Chappell - Environmental Resolutions, Inc.

ENVIRONMENTAL RESOLUTIONS, INC.

May 11, 2000
ERI 222903.R01

Mr. Darin L. Rouse
ExxonMobil Refining and Supply
P.O. Box 4032
Concord, California 94524-4032

Subject: Soil and Groundwater Investigation Report for Exxon Service Station 7-0235, 2225 Telegraph Avenue, Oakland, California.

Mr. Rouse:

At the request of ExxonMobil Refining and Supply (formerly known as Exxon Company, U.S.A) (ExxonMobil), Environmental Resolutions, Inc. (ERI) conducts environmental activities at the subject site. This report documents the drilling of two off-site soil borings in the vicinity of the subject site. Field activities were performed on March 29, 2000, in general accordance with ERI's *Work Plan for Soil and Groundwater* (Work Plan), dated January 4, 2000. The purpose of this work was to evaluate the lateral and vertical extent of dissolved hydrocarbons and methyl tertiary butyl ether (MTBE) in the downgradient direction from the subject site.

BACKGROUND

The site is located on the southwest corner of Telegraph Avenue and West Grand Avenue in Oakland, California, as shown on the Site Vicinity Map (Plate 1). The locations of existing underground storage tanks (USTs), dispenser islands, and other selected site features are shown on the Generalized Site Plan (Plate 2). Based on quarterly groundwater monitoring data, depth to water (DTW) measurements across the site have fluctuated from approximately 11 to 14 feet below ground surface (bgs), and the groundwater appears to flow towards the southeast with a hydraulic gradient from 0.012 to 0.030. A Rose Diagram depicting groundwater flow directions since Fourth Quarter 1997 is shown on Plate 3.

FIELD INVESTIGATION

ERI observed the drilling of soil borings GP1 and GP2, and collected soil and groundwater samples from each of the borings using dual-tube Geoprobe® technology.

ERI performed the work in accordance with a site safety plan and ERI's standard field protocol (Attachment A). Approval of this investigation was provided by the Alameda County Health Care Services Agency in a letter dated February 24, 2000 (Attachment B). Prior to drilling, ERI obtained an excavation permit from the City of Oakland, Public Works Department (Attachment C), and a drilling permit from the Alameda County Public Works Department (Attachment D).

On March 29, 2000, an ERI geologist observed Vironex Environmental Field Services (Vironex) of Hayward, California, install two soil borings (GP1 and GP2) using direct-push equipment. The locations of the borings are shown on Plate 2. Soil borings GP1 and GP2 were driven to a total depth of approximately 24 feet bgs. Each boring was continuously cored, allowing more complete logging of the stratigraphy and the water-bearing zones. Soil generated during the clearing of the soil boring locations was stored on site in a 55-gallon drum pending characterization and disposal. Drill cuttings were not generated during this investigation.

ERI collected soil samples for laboratory analysis at 2-foot and 4-foot intervals. ERI collected discrete groundwater samples from each boring at first-encountered groundwater (approximately 12-13 feet bgs) and at approximately 10 feet below first-encountered groundwater. Select soil and groundwater samples were submitted for laboratory analysis. Upon completion of sample collection, the casings were removed, and the borings were then backfilled with a cement grout and topped with asphalt patch.

HYDROGEOLOGY

The results of this and previous investigations indicate that sediment underlying the site consists of silty clay, sandy clay, and sand. During this investigation, groundwater was initially encountered approximately 12 feet bgs, in sandy clay with thin beds of sand. Boring logs are provided in Attachment E.

RESULTS OF INVESTIGATION

Groundwater

Water samples collected from borings GP1 and GP2 were submitted under Chain of Custody protocol to Southern Pacific Laboratories, Inc. (SPL) in Houston, Texas. The Chain of Custody records and analytical laboratory reports are included in Attachment F. Selected water samples were analyzed for total purgeable petroleum hydrocarbons as gasoline (TPPHg), MTBE, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the laboratory methods listed in Table 1. Laboratory analysis results are presented in Table 1.

Laboratory analyses of groundwater samples collected from borings GP1 and GP2 indicate that MTBE and BTEX were not detected at or above the laboratory method detection limits in the samples. TPPHg was detected at 100 micrograms per liter (ug/L) in GP2. TPPHg was not detected at or above the laboratory detection limit in GP1.

Soil

Select soil samples were submitted under Chain of Custody protocol to SPL. The Chain of Custody record and analytical laboratory report are included in Attachment F. Soil samples were analyzed for MTBE, TPPHg, and BTEX using the laboratory methods listed in Table 2. Additionally, to meet disposal requirements, one soil stockpile sample was analyzed for total lead and halogenated volatile organic compounds (HVOCs).

Laboratory analysis results of soil samples collected from the borings indicate that the analytes were not detected at or above the laboratory method detection limits. The laboratory analysis results of the composite soil sample collected from the soil stockpile show that TPPHg, MTBE, and HVOCs were not detected at or above the laboratory method detection limits. The analytical laboratory results are presented in Table 2.

At the request of ExxonMobil, Dillard Trucking Company (Dillard) of Byron, California, (under direct contract to ExxonMobil) will transport soil generated during borehole clearing operations to the Browning-Ferris Industries (BFI) landfill in Livermore, California after receipt of characterization analyses. Soil disposal documentation will be forwarded under separate cover.

CONCLUSIONS

Based on the results of this investigation, ERI concludes that the MTBE plume has been delineated downgradient from the site by GeoProbe borings GP1 and GP2.

PROPOSED WORK

ERI recommends the installation of one downgradient groundwater monitoring well (MW6J) in the vicinity of GP1. The purpose of this well is to provide a permanent downgradient monitoring point for plume delineation. The location of the proposed groundwater monitoring well is shown on Plate 2. The scope of the well installation includes the following work:

Task 1: Pre-Drilling Activities

- Obtain a drilling permit from the Alameda County Public Works Department.
- Obtain excavation and encroachment permits from the City of Oakland.
- Contact Underground Service Alert (USA) to coordinate utility locating activities.

Task 2: Preliminary Investigation

- Obtain the services of a licensed well driller, and observe the drilling of one off-site soil boring utilizing a hollow-stem auger drilling rig and the construction of groundwater monitoring well MW6J in the boring. The boring will be advanced to a minimum depth of 10 feet below first-encountered groundwater. ERI expects groundwater to be encountered between 10 and 15 feet bgs. Soil samples will be collected from each boring at 5-foot intervals and at significant changes in lithology, to the total depth of the boring.
- Develop the newly installed well and collect groundwater samples from the well.
- Submit selected soil and groundwater samples to SPL for laboratory analysis of TPPHg using modified EPA Method 8015, total extractable petroleum hydrocarbons as diesel (TEPHd) using modified EPA Method 8015, and BTEX using EPA Method 8020.

- Drill cuttings will be stored on site and covered with visqueen pending disposal. ERI will collect one composite soil sample from the soil stockpile for laboratory analysis. Upon receipt of analytical results for the stockpiled soil, ERI will coordinate the disposal of the soil at an appropriate disposal facility.

- Contract with a licensed land surveyor to survey the location (known survey grid) and casing elevation (mean sea level) of the newly installed wells.

- Interpret field and laboratory data to evaluate soil and groundwater conditions.

Task 3: Report Preparation

- ERI will prepare a report for the well installation. The report will detail field activities, sample collection, field observations, results of the field investigations, and analytical results for soil and groundwater samples. If additional assessment work is warranted, the proposed work will be described in the report.

LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for ExxonMobil, and any reliance on this report by third parties shall be at such party's sole risk.

ERI recommends signed copies of this report be forwarded to the following:

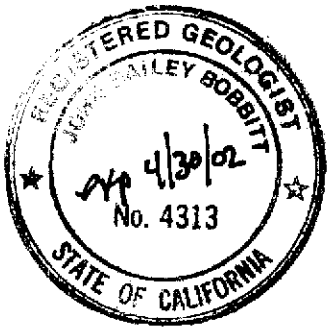
Mr. Scott Seery
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Mr. Stephen Hill
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Please call ERI's project manager, Mr. James F. Chappell at (415) 382-4323, with any questions or comments regarding this report.

Sincerely,
Environmental Resolutions, Inc.

Thomas Culig
Staff Geologist



John B. Bobbitt
R.G. 4313

Attachments:

Table 1: Analytical Laboratory Results of Groundwater Samples
Table 2: Analytical Laboratory Results of Soil Samples

Plate 1: Site Vicinity Map
Plate 2: Generalized Site Plan
Plate 3: Groundwater Flow Direction Rose Diagram

Attachment A: Field Protocol
Attachment B: Alameda County Health Care Services Agency Letter, Dated February 24, 2000
Attachment C: Excavation Permit
Attachment D: Drilling Permit
Attachment E: Unified Soil Classification System and Symbol Key and Soil Boring Logs
Attachment F: Analytical Laboratory Report and Chain of Custody Record

TABLE 1
ANALYTICAL LABORATORY RESULTS OF GROUNDWATER SAMPLES
Exxon Service Station 7-0235
2225 Telegraph Avenue
Oakland, California

Sample ID	Date Sampled	TPPHg	MTBE	B	T	E	X
		<.....ug/L.....>					
W-13-GP1	3/29/00	<50	<2	<0.5	<0.5	<0.5	<0.5
W-23-GP1	3/29/00	<50	<2	<0.5	<0.5	<0.5	<0.5
W-12-GP2	3/29/00	100	<2	<0.5	<0.5	<0.5	<0.5
W-23-GP2	3/29/00	<50	<2	<0.5	<0.5	<0.5	<0.5

Notes:

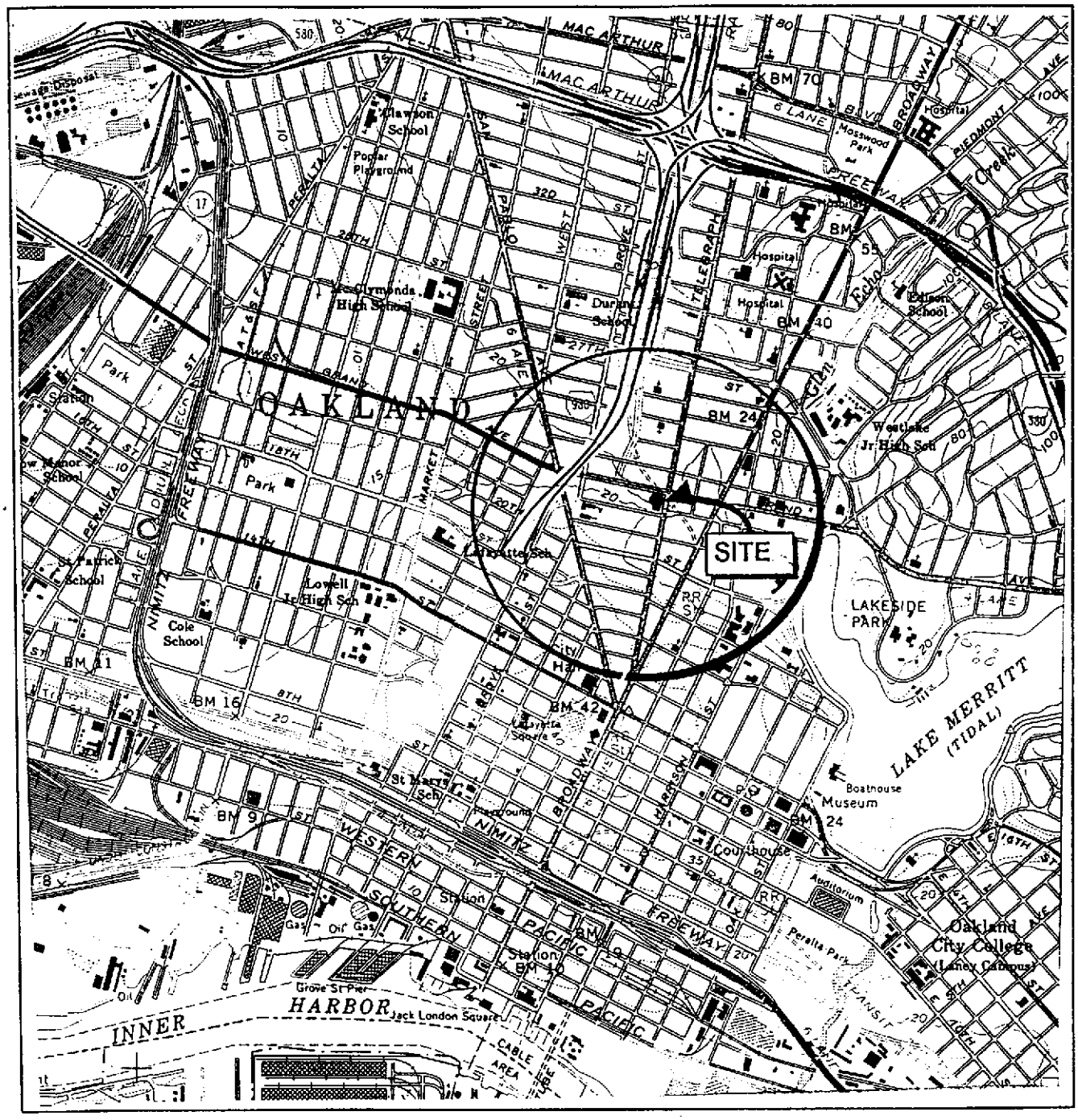
W-13-GP1	=	Water sample-depth in feet below ground surface-boring number.
TPPHg	=	Total purgeable petroleum hydrocarbons as gasoline analyzed using modified EPA Method 8015M.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
ug/L	=	Micrograms per liter.

TABLE 2
ANALYTICAL LABORATORY RESULTS OF SOIL SAMPLES
Exxon Service Station 7-0235
2225 Telegraph Avenue
Oakland, California
Page 1 of 1)

Sample ID	Date Sampled	TPPHg	MTBE	B	T	E	X	Total Lead	HVOCs
		<.....mg/kg.....>							
S-9-GP1	3/29/00	<1	<0.001	<0.001	<0.001	<0.001	<0.001	---	---
S-11-GP1	3/29/00	<1	<0.001	<0.001	<0.001	<0.001	<0.001	---	---
			<0.001	<0.001					
S-9-GP2	3/29/00	<1	<0.001	<0.001	<0.001	<0.001	<0.001	---	---
S-11-GP2	3/29/00	<1	<0.001	<0.001	<0.001	<0.001	<0.001	---	---
SP-1-1	3/29/00	<1	<0.001	<0.001	<0.001	<0.001	<0.001	4.35	ND

Notes:

S-9-GP1	=	Soil sample-depth in feet below ground surface-boring number.
SP-1-1	=	Stockpile soil sample-depth in feet below ground surface
TPPHg	=	Total purgeable petroleum hydrocarbons as gasoline analyzed using modified EPA Method 8015M.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
Lead	=	Total lead analyzed using EPA Method 6010B.
ND	=	Analytes not detected at or above the laboratory method detection limit.
mg/kg	=	Milligrams per Kilogram.
---	=	Not Analyzed/Not Applicable.



FN: 22290001

N

APPROXIMATE SCALE

0 1/2 1

MILE

Source: U.S.G.S. 7.5 minute topographic quadrangle map Oakland West, California (Photorevised 1980)

ERI ENVIRONMENTAL RESOLUTIONS, INC.

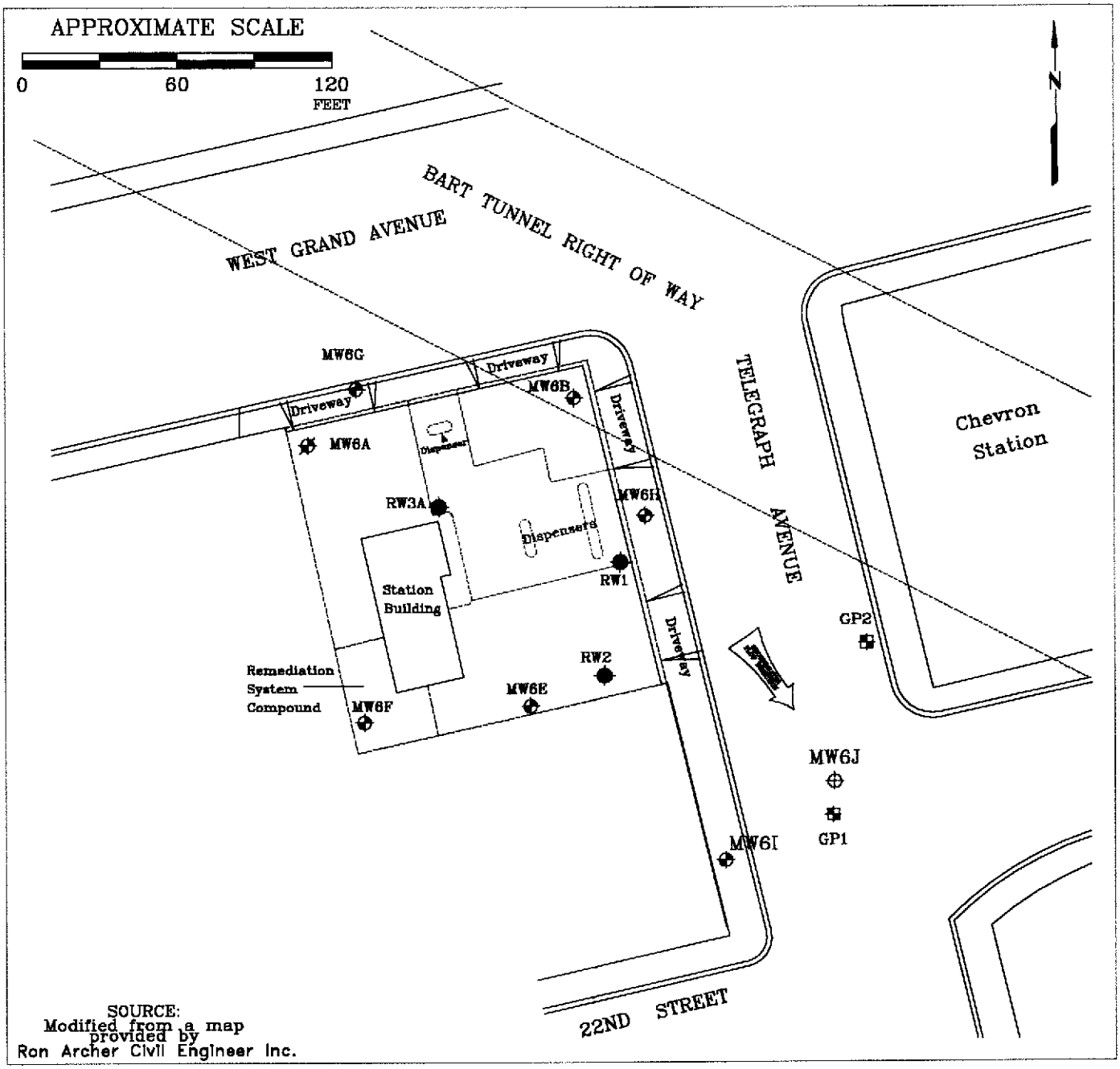
PROJECT ERI 2229

SITE VICINITY MAP

EXXON SERVICE STATION 7-0235
2225 Telegraph Avenue
Oakland, California

PLATE

1



SOURCE:
Modified from a map provided by
Ron Archer Civil Engineer Inc.

FN 22290003

EXPLANATION

MW6I — Groundwater Monitoring Well

8.00 — Groundwater elevation in feet above mean sea level

i = — Interpreted Groundwater Gradient

RW3A — Groundwater Recovery Well

GP1 — Geoprobe Location

Dominant Groundwater Flow Direction Based on Rose Diagram.

MW6J — Proposed Groundwater Monitoring Well

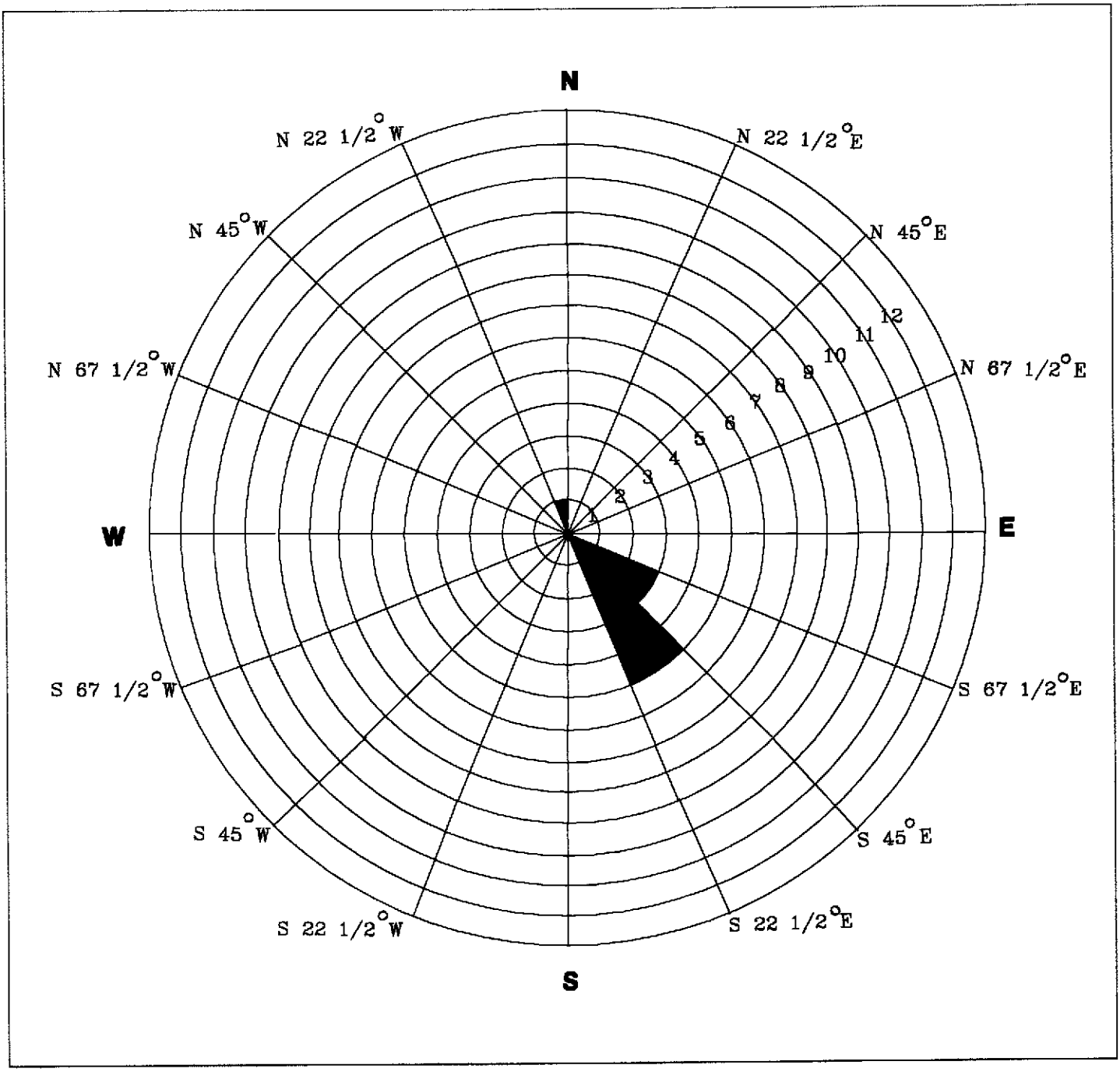
ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

EXXON SERVICE STATION 7-0235
2225 Telegraph Avenue
Oakland, California

PROJECT NO. 2229

PLATE 2



FN 22290004

EXPLANATION

N Compass Direction

Nine Data Points Shown

Rose diagram developed by evaluating the groundwater gradient direction from the quarterly monitoring data. Each circle on the rose diagram represents the number of monitoring events that the gradient plotted in that 22 1/2 degree sector. For example, five quarterly groundwater gradient directions are plotted between south 45 degrees east and south 22 1/2 degrees east. Therefore, the dominant groundwater gradient direction as depicted by the rose diagram is between south 67 1/2 degrees east and south 22 1/2 degrees east.

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GROUNDWATER FLOW DIRECTION ROSE DIAGRAM

EXXON SERVICE STATION 7-0235
2225 Telegraph Avenue
Oakland, California

PROJECT NO. 2229

PLATE 3

December 7, 1999

ATTACHMENT A

FIELD PROTOCOL

FIELD PROTOCOL

Site Safety Plan

Fieldwork is performed by ERI personnel in accordance with a site safety plan (SSP) developed for the site. This plan describes the basic safety requirements for the subsurface investigation and the drilling of soil borings at the work site. The SSP is applicable to personnel and subcontractors of ERI. Personnel at the site are informed of the contents of the SSP before work begins. A copy of the SSP is kept at the work site and is available for reference by appropriate parties during the work. The ERI geologist acts as the Site Safety Officer.

Pre-Drilling Protocol

Prior to the drilling of soil borings, ERI will acquire necessary permits from the appropriate agency(ies). ERI will also contact Underground Service Alert (USA) and a private underground utility locator (per ExxonMobil protocol) before drilling to help locate public utility lines at the site. ERI will clear the proposed locations to a depth of approximately 4 or 8 feet (depending on the location) before drilling to reduce the risk of damaging underground structures

Direct Drive Push-Technology Drilling

Soil borings are drilled using a portable, truck-mounted pneumatic sampling device capable of pushing and/or driving a 2-inch core barrel into the subsurface. When groundwater is encountered in the borings, a bailer or Hydropunch® (or similar) sample device is used to collect a reconnaissance groundwater sample. After drilling and sampling is completed, the boring is abandoned using cement grout to fill the boring to the original surface.

Hydropunch® Sampling Technology (or similar)

The Hydropunch® (or similar) sampling device provides a method for collection of groundwater samples using a specially designed sample tool to provide a hydraulic connection with the water table. Both groundwater and separate-phase hydrocarbons may be sampled using a Hydropunch® sampler. To sample groundwater, the sample tool is pushed to the selected depth beneath the water table, then withdrawn to expose an inlet screen. The screened interval of the sampler is approximately 3 to 5 feet. Groundwater flows through the inlet screen and fills the body of the sampler. A water sample is then collected from the body of the sampler.

The water is transferred slowly from the bailer to laboratory-cleaned, 1-liter amber bottles and 40-milliliter glass vials for analyses by the laboratory. The glass vials contain hydrochloric acid as a preservative. ERI's geologist checks to see if headspace is present. If headspace is present, additional water is collected until none is present. Chain of Custody Records are initiated in the field by the geologist, updated throughout handling of the samples, and sent along with the samples to the laboratory. Copies of Chain of Custody Records are included in ERI's report.

Auger Drilling

The soil borings will be drilled with a B57 (or similar) drill rig with hollow-stem auger. Auger flights and sampling equipment will be steam-cleaned before use to minimize the possibility of crosshole contamination. The rinseate will be containerized and stored on site. ERI will coordinate with ExxonMobil for appropriate disposal of the rinsate.

Drilling will be performed under the observation of a field geologist, and the earth materials in the boring will be identified using visual and manual methods, and classified as drilling progresses using the Unified Soil Classification System. Soil borings B1 will be drilled to approximately 10 feet below first-encountered groundwater or 5 feet into any competent clay layer (aquitard) encountered beneath the water-bearing zone. If an aquitard is encountered, the boring will be terminated and backfilled with bentonite before installing a groundwater monitoring well.

During drilling, soil samples will be continuously collected. Samples will be collected with a California-modified, split-spoon sampler equipped with laboratory-cleaned brass sleeves. Samples will be collected by advancing the auger to a point just above the sampling depth and driving the sampler into the soil. The sampler will be driven 18 inches with a standard 140-pound hammer repeatedly dropped 30 inches. The number of blows required to drive the sampler each successive 6-inch interval will be counted and recorded to give an indication of soil consistency.

Soil samples will be monitored with a photoionization detector (PID), which measures hydrocarbon concentrations in the ambient air or headspace above the soil sample. Field instruments such as the PID are useful for indicating relative levels of hydrocarbon vapors, but do not detect concentrations of hydrocarbons with the same precision as laboratory analyses. Soil samples selected for possible chemical analysis will be sealed promptly with Teflon® tape and plastic caps. The samples will be labeled and placed in iced storage for transport to the laboratory. Chain of Custody Records will be initiated by the geologist in the field, updated throughout handling of the samples, and sent with the samples to the laboratory. Copies of these records will be in the final report. Cuttings generated during drilling will be placed on plastic sheeting and covered and left at the site. ERI will coordinate with ExxonMobil for the soil to be removed to an appropriate disposal facility.

Well Construction

The monitoring well will be constructed in the boring using thread-jointed, 2-inch inner diameter, Schedule 40 polyvinyl chloride (PVC) casing. No chemical cements, glues, or solvents will be used in well construction. The screened portion of the well will consist of factory-perforated casing with 0.020-inch wide slots. If unconfined aquifer conditions exist, the well screen will be installed from the total depth of each well to approximately 5 feet above the uppermost water-bearing unit. If confined conditions exist, the uppermost water-bearing unit will be screened exclusively. Unperforated casing will be installed from the top of each screen to the ground surface. The annular space in the well will be packed with number 2/12 sand to approximately one foot above the slotted interval and a surged and refilled bentonite plug will be added above the sand pack to prevent cement from entering the well pack. The remaining annulus will be backfilled to grade with a slurry of cement and bentonite powder.

The well will be protected with a locking cap and a traffic-rated, cast-steel utility box equipped with a steel skirt. The box has a watertight seal to protect against surface-water infiltration.

Well Development and Sampling

ERI will wait a minimum of 24 hours before development of the wells to allow the grout to set. The wells will be developed with a surge block and pump. Well development will continue until the discharge water is clear of silt and sand. Clay-size sediments derived from the screened portion of the formation cannot be eliminated by well development. After the wells have been allowed to stabilize, the wells will be checked for separate phase hydrocarbons using an interface probe. The thickness of any free phase hydrocarbons detected in the wells will be recorded. If free phase hydrocarbons are encountered in a well, the well will not be purged, and the water will not be sampled for chemical analysis.

If no free phase hydrocarbons are detected after development, the groundwater monitoring wells will be purged of stagnant water and a sample will be collected for laboratory analysis. The wells will be purged of approximately 3 to 5 well volumes of water with a submersible pump, or until pH, conductivity, and temperature of the purged water have stabilized. Water purged from the wells will be transported by ERI for disposal at Romic, Inc., of East Palo Alto, California.

The wells will be allowed to recover to at least 80 percent of static conditions, and a sample of the formation water will be collected with a Teflon® bailer cleaned with a laboratory-grade detergent and deionized water. The water will be transferred slowly from the bailer to laboratory-cleaned, 1 liter amber bottles and 40-milliliter glass vials for analyses by the laboratory. The glass vials will contain hydrochloric acid as a preservative. The sampler will check to see if headspace is present. If headspace is present, the sampler will collect more samples until none is present. Chain of Custody Records will be initiated in the field by the sampler, updated throughout handling of the samples, and sent along with the samples to the laboratory. Copies of Chain of Custody Records will be included in our final report.

Quality Assurance/Quality Control

The sampling and analysis procedures employed by ERI for soil sampling follow regulatory guidance documents for quality assurance/quality control (QA/QC). Quality control is maintained by site-specific field protocols and quality control checks performed by the laboratory. Laboratory and field handling of samples may be monitored by including QC samples for analysis. The number and types of QC samples are selected and analyzed on a project-specific basis.

Trip Blanks - Trip blanks are sent to the project site, and travel with samples collected from the project site to the laboratory. They are not opened, and are returned from the project site with the samples for analysis.

ATTACHMENT B

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY LETTER DATED FEBRUARY 24, 2000

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

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

February 24, 2000

STID 1039

Mr. Darin Rouse
Exxon Company, U.S.A.
P.O. Box 4032
Concord, CA 94524-4032

RE: Exxon Service Station 7-0235, 2225 Telegraph Avenue, Oakland

Dear Mr. Rouse:

This letter follows my review of the January 4, 2000 Environmental Resolutions, Inc. (ERI) work plan for a soil and water investigation (SWI) in locations downgradient of the subject site. This work plan was submitted in response to a November 5, 1999 request from this office for such work, prompted by the significant increase in methyl tert-butyl ether (MtBE) concentrations identified in water samples collected from well MW6H in the last two years.

ERI proposes the use of Geoprobe® or other "push-tool" sampling equipment to advance two borings into Telegraph Avenue from which both soil and groundwater samples will be collected. Although the proposed scope of work is acceptable as a preliminary step in the assessment, it is not a replacement for the monitoring wells requested previously.

The cited ERI workplan is accepted as submitted for this preliminary stage of the SWI.

Please call me at (510) 567-6783 should you have any questions and to advise me when permits have been secured and field work scheduled.

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

cc: Chuck Headlee, RWQCB
Leroy Griffin, Oakland Fire Department
Jim Chappell, Env. Resolutions, Inc., 73 Digital Dr., Ste. 100, Novato, CA 94949

ATTACHMENT C

EXCAVATION PERMIT

250 Frank H. Ogawa Plaza, 2nd ; Oakland, CA 94612 • Phone (510) 238-3443 FAX (510) 238-2263

PERMIT
EXCAVATION

Job Site 2225 TELEGRAPH AV Parcel# 008 -0659-002-01 Appl# X000025

Descr boring for soil & ground water investigation Permit Issued 03/17/0

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job #: Acct#:
Util Fund #:

		Applcnt	Phone#	Lic#	License Classes
Owner	EXXON CORPORATION				
Contractor	ENVIRONMENTAL RESOLUTIONS INC	X	(415)382-9105	611383-A	C10 C36
Arch/Engr					
Agent	DYLAN CROUSE				
Applic Addr	73 DIGITAL DR STE 100, CA, 94949				

$246.00 TOTAL FEES PAID AT ISSUANCE

$41.00 Applic	$205.00 Permit
$.00 Process	$.00 Rec Mgmt
$.00 Gen Plan	$.00 Invstg
$.00 Other	

CITY OF OAKLAND

ATTACHMENT D

DRILLING PERMIT

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST., HAYWARD, CA 94544
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 2225 Telegraph Avenue Oakland, California offsite

CLIENT
Name EXXON Company, USA
Address P.O. Box 4032 Phone (925) 246-8790
City Concord Zip 94524-4032

APPLICANT
Name Environmental Resolutions, Inc
Address 73 Digital, Suite 100 Fax 415 382-1856
City Novato, CA Phone 415 382-9105
Zip 94949

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	[ ]	General	[X]
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	[X]	Direct Push	

DRILLER'S LICENSE NO. 705927

WELL PROJECTS
Drill Hole Diameter ____ in. Maximum
Casing Diameter ____ in. Depth ____ ft.
Surface Seal Depth ____ ft. Number ____

GEOTECHNICAL PROJECTS
Number of Borings 2 Maximum
Hole Diameter 2 in. Depth 35 ft.

ESTIMATED STARTING DATE 3-29-00
ESTIMATED COMPLETION DATE 3-29-00

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

APPLICANT'S SIGNATURE [signature] DATE 3/16/00

Rev. 3-16-00

FOR OFFICE USE

PERMIT NUMBER W00-118
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 work the 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 feet shall be compacted cuttings.

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

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS

APPROVED [signature] DATE 3-20-00

ATTACHMENT E

UNIFIED SOIL CLASSIFICATION SYSTEM AND SYMBOL KEY AND SOIL BORING LOGS

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2229 Boring: GP1 Plate: APPENDIX
Site: Exxon Service Station 7-0235 Date: 3/29/00
Drill Contractor: Vironex
Sample Method: Split Spoon Geologist: JOHN B. BOBBITT
Drill Rig: 5400 Bore Hole Diameter: 2" Signature: John B. Bobbitt
Location: In the Middle of Telegraph Avenue and 22nd Street Intersection Registration: R.G. 4313
Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						14" asphalt, 12" road base	Backfilled with Grout
						Clay with some silt and trace of sand, greenish gray, damp, (70% clay, 20% silt, 10% fine-grained sand), high plasticity	
5		3.3			CH	clay with some silt, light brown, (80% clay, 20% silt)	
						same, mottled black	
10		0					
		0				same	
		▼			SP	(90% sand, 10% clay), moist, very fine-grained sand	
		0			CH	Clay with some sand, brown, mottled gray (80% clay, 20% fine-grained sand, moist, high plasticity	
15		0			SP	Sand with a trace of clay, brown, (90% sand, 10% clay), fine-grained sand	
		0			CH	Clay with a trace of silt, brown, moist, (85% clay, 15% silt), poorly graded, wet, high plasticity	
20		0			CL	Sandy clay with a trace of gravel, light brown, (60% clay, 35% sand, 5% gravel), fine-grained sand, poorly graded, fine gravel up to 1/2", medium plasticity, wet	
						22'-24' no sample	
25						Total depth at 24 feet. Groundwater encountered at 12.7 feet.	

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Portland I/II

FN: 2229GP1

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2229 Boring: GP2 Plate: APPENDIX
Site: Exxon Service Station 7-0235 Date: 3/29/00
Drill Contractor: Vfironex
Sample Method: Split Spoon Geologist: JOHN B. BOBBITT
Drill Rig: 5400 Bore Hole Diameter: 2" Signature: John Bobbitt
Location: Approximately 15' North of the Northeastern Corner of Telegraph Avenue and 22nd Street Registration: R.G. 4313
Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						14" asphalt	
						Clay with some silt and a trace of sand, light brown, (70% clay, 20% silt, 10% fine-grained sand), moist, high plasticity	
5		0			CH		
10		0				same, mottled black	
		8			SC	Sand with some clay, light brown, (75% sand, 25% clay), wet, slight plasticity	
		6			SP	Sand with a trace of silt, greenish gray, (90% sand, 10% silt), fine-grained sand, poorly graded sand, wet	
15		4			CH	Sandy clay, greenish gray, mottled orange, (60% clay, 40% sand), fine-grained sand, poorly graded sand, wet, high plasticity	
		7				same, sand with a trace of clay, light brown (90% sand, 10% clay), very fine-grained sand, poorly graded sand, wet	
20		0			SP		
		5				same	
						Total depth at 23 feet. Groundwater encountered at 12 feet.	
25							

Backfilled with Grout

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Portland I,II

FN: 2229GP2

ATTACHMENT F

ANALYTICAL LABORATORY REPORT AND CHAIN OF CUSTODY RECORD

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

EXXON Company U.S.A.

Certificate of Analysis Number:

00040279

Report To:	Environmental Resolution, Inc. Jim Chappell 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-9105 fax: (415) 382-1856	**Project Name:**	222903x
		Site:	7-0235,19802887
		Site Address:	
		PO Number:	
		State:	California
		State Cert. No.:	
Fax To:	*Environmental Resolution, Inc.* *Jim Chappell* *fax: (415) 382-1856*	**Date Reported:**	

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SP-1-1	00040279-01	Soil	3/29/00 5:05:00 PM	4/11/00		☐

Sonia West

4/17/00

West, Sonia
Senior Project Manager

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: SP-1-1 Collected: 3/29/00 5:05:00 SPL Sample ID: 00040279-01

Site: 7-0235,19802887

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
HALOGENATED VOLATILES ORGANIC COMPOUNDS			**MCL**	**SW8010B**		**Units: mg/Kg**		
1,1,1-Trichloroethane	ND		0.001	1		04/13/00 0:47	JN	249688
1,1,2,2-Tetrachloroethane	ND		0.002	1		04/13/00 0:47	JN	249688
1,1,2-Trichloroethane	ND		0.001	1		04/13/00 0:47	JN	249688
1,1-Dichloroethane	ND		0.001	1		04/13/00 0:47	JN	249688
1,1-Dichloroethene	ND		0.001	1		04/13/00 0:47	JN	249688
1,2-Dichlorobenzene	ND		0.001	1		04/13/00 0:47	JN	249688
1,2-Dichloroethane	ND		0.001	1		04/13/00 0:47	JN	249688
1,2-Dichloropropane	ND		0.001	1		04/13/00 0:47	JN	249688
1,3-Dichlorobenzene	ND		0.002	1		04/13/00 0:47	JN	249688
1,4-Dichlorobenzene	ND		0.002	1		04/13/00 0:47	JN	249688
Bromodichloromethane	ND		0.001	1		04/13/00 0:47	JN	249688
Bromoform	ND		0.001	1		04/13/00 0:47	JN	249688
Bromomethane	ND		0.001	1		04/13/00 0:47	JN	249688
Carbon tetrachloride	ND		0.001	1		04/13/00 0:47	JN	249688
Chlorobenzene	ND		0.001	1		04/13/00 0:47	JN	249688
Chloroethane	ND		0.001	1		04/13/00 0:47	JN	249688
Chloroform	ND		0.001	1		04/13/00 0:47	JN	249688
Chloromethane	ND		0.001	1		04/13/00 0:47	JN	249688
cis-1,2-Dichloroethene	ND		0.001	1		04/13/00 0:47	JN	249688
cis-1,3-Dichloropropene	ND		0.001	1		04/13/00 0:47	JN	249688
Dibromochloromethane	ND		0.001	1		04/13/00 0:47	JN	249688
Dichlorodifluoromethane	ND		0.001	1		04/13/00 0:47	JN	249688
Methylene chloride	ND		0.002	1		04/13/00 0:47	JN	249688
Tetrachloroethene	ND		0.001	1		04/13/00 0:47	JN	249688
trans-1,2-Dichloroethene	ND		0.001	1		04/13/00 0:47	JN	249688
trans-1,3-Dichloropropene	ND		0.001	1		04/13/00 0:47	JN	249688
Trichloroethene	ND		0.001	1		04/13/00 0:47	JN	249688
Trichlorofluoromethane	ND		0.001	1		04/13/00 0:47	JN	249688
Surr: 3-Bromochlorobenzene	131	%	50-150	1		04/13/00 0:47	JN	249688
Surr: Fluorobenzene	93.3	%	70-130	1		04/13/00 0:47	JN	249688
METALS BY METHOD 6010B, TOTAL			**MCL**	**SW6010B**		**Units: mg/Kg**		
Lead	4.35		0.5	1		04/12/00 15:28	EG	247878

Run ID/Seq #: TJAT_000412A-247878

Prep Method	Prep Date	Prep Initials
SW3050B	04/11/2000 18:40	AA

Sonia West

West, Sonia
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Case Narrative for:
EXXON Company U.S.A.

Certificate of Analysis Number:
00030881

Report To:		Project Name:	222903X
Environmental Resolution, Inc.		Site:	7-0235,19802887
Jim Chappell		Site Address:	
73 Digital Drive Suite 100			
Novato		PO Number:	
California		State:	California
94949-		State Cert. No.:	
ph: (415) 382-9105	fax: (415) 382-1856	Date Reported:	4/5/00

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Sonia West

West, Sonia
Senior Project Manager

4/6/00
Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

EXXON Company U.S.A.

Certificate of Analysis Number:

00030881

Report To: Environmental Resolution, Inc.
Jim Chappell
73 Digital Drive Suite 100

Novato
California
94949-
ph: (415) 382-9105 fax: (415) 382-1856

Fax To: *Environmental Resolution, Inc.*
Jim Chappell *fax: (415) 382-1856*

Project Name: 222903X
Site: 7-0235,19802887
Site Address:

PO Number:
State: California
State Cert. No.:
Date Reported: 4/5/00

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
-5-GP1	00030881-01	Soil	3/29/00 10:00:00 AM	3/31/00 10:00:00 AM		☑
-P1	00030881-02	Soil	3/29/00 10:05:00 AM	3/31/00 10:00:00 AM		☐
GP1	00030881-03	Soil	3/29/00 10:10:00 AM	3/31/00 10:00:00 AM		☐
-13-GP1	00030881-04	Soil	3/29/00 10:15:00 AM	3/31/00 10:00:00 AM		☑
-15-GP1	00030881-05	Soil	3/29/00 10:20:00 AM	3/31/00 10:00:00 AM		☑
GP1	00030881-06	Soil	3/29/00 10:40:00 AM	3/31/00 10:00:00 AM		☑
-GP1	00030881-07	Soil	3/29/00 11:00:00 AM	3/31/00 10:00:00 AM		☑
-5-GP2	00030881-08	Soil	3/29/00 2:45:00 PM	3/31/00 10:00:00 AM		☑
P2	00030881-09	Soil	3/29/00 2:50:00 PM	3/31/00 10:00:00 AM		☐
GP2	00030881-10	Soil	3/29/00 2:55:00 PM	3/31/00 10:00:00 AM		☐
-13-GP2	00030881-11	Soil	3/29/00 3:00:00 PM	3/31/00 10:00:00 AM		☑
GP2	00030881-12	Soil	3/29/00 3:20:00 PM	3/31/00 10:00:00 AM		☑
GP2	00030881-13	Soil	3/29/00 3:25:00 PM	3/31/00 10:00:00 AM		☑
19-GP2	00030881-14	Soil	3/29/00 3:30:00 PM	3/31/00 10:00:00 AM		☑
-21-GP2	00030881-15	Soil	3/29/00 3:35:00 PM	3/31/00 10:00:00 AM		☑
-GP1	00030881-16	Water	3/29/00 10:30:00 AM	3/31/00 10:00:00 AM		☐
-GP1	00030881-16	Water	3/29/00 10:30:00 AM	3/31/00 10:00:00 AM		☑
-23-GP1	00030681-17	Water	3/29/00 11:30:00 AM	3/31/00 10:00:00 AM		☐
GP2	00030681-18	Water	3/29/00 3:10:00 PM	3/31/00 10:00:00 AM		☐
GP2	00030881-18	Water	3/29/00 3:10:00 PM	3/31/00 10:00:00 AM		☑
-23-GP2	00030881-19	Water	3/29/00 4:25:00 PM	3/31/00 10:00:00 AM		☐
-GP2	00030881-19	Water	3/29/00 4:25:00 PM	3/31/00 10:00:00 AM		☑
P1	00030881-20	Soil	3/29/00 5:05:00 PM	3/31/00 10:00:00 AM		☐

Sonia West 4/6/00

West, Sonia — Date
Senior Project Manager

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

4/6/00 6:50:09 AM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: S-9-GP1 **Collected:** 3/29/00 10:05:00 **SPL Sample ID:** 00030881-02

Site: 7-0235,19802887

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1		1		04/03/00 22:34	CJ	235275
Surr: 1,4-Difluorobenzene	86.4	%	72-153		1		04/03/00 22:34	CJ	235275
Surr: 4-Bromofluorobenzene	80.9	%	51-149		1		04/03/00 22:34	CJ	235275
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: mg/Kg**		
Benzene	ND		0.001		1		04/03/00 22:34	CJ	235208
Ethylbenzene	ND		0.001		1		04/03/00 22:34	CJ	235208
Methyl tert-butyl ether	ND		0.001		1		04/03/00 22:34	CJ	235208
Toluene	ND		0.001		1		04/03/00 22:34	CJ	235208
m,p-Xylene	ND		0.001		1		04/03/00 22:34	CJ	235208
o-Xylene	ND		0.001		1		04/03/00 22:34	CJ	235208
Xylenes,Total	ND		0.001		1		04/03/00 22:34	CJ	235208
Surr: 1,4-Difluorobenzene	94.9	%	59-127		1		04/03/00 22:34	CJ	235208
Surr: 4-Bromofluorobenzene	101	%	48-156		1		04/03/00 22:34	CJ	235208

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: S-11-GP1 **Collected:** 3/29/00 10:10:00 **SPL Sample ID:** 00030881-03

Site: 7-0235,19802887

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1	1		04/03/00 23:07	CJ	235276
Surr: 1,4-Difluorobenzene	88.6	%	72-153	1		04/03/00 23:07	CJ	235276
Surr: 4-Bromofluorobenzene	81.8	%	51-149	1		04/03/00 23:07	CJ	235276
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: mg/Kg**		
Benzene	ND		0.001	1		04/03/00 23:07	CJ	235211
Ethylbenzene	ND		0.001	1		04/03/00 23:07	CJ	235211
Methyl tert-butyl ether	ND		0.001	1		04/03/00 23:07	CJ	235211
Toluene	ND		0.001	1		04/03/00 23:07	CJ	235211
m,p-Xylene	ND		0.001	1		04/03/00 23:07	CJ	235211
o-Xylene	ND		0.001	1		04/03/00 23:07	CJ	235211
Xylenes,Total	ND		0.001	1		04/03/00 23:07	CJ	235211
Surr: 1,4-Difluorobenzene	93.2	%	59-127	1		04/03/00 23:07	CJ	235211
Surr: 4-Bromofluorobenzene	99.3	%	48-156	1		04/03/00 23:07	CJ	235211

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: S-9-GP2 **Collected:** 3/29/00 2:50:00 **SPL Sample ID:** 00030881-09

Site: 7-0235,19802687

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1		1		04/04/00 1:47	CJ	235281
Surr: 1,4-Difluorobenzene	89.2	%	72-153		1		04/04/00 1:47	CJ	235281
Surr: 4-Bromofluorobenzene	82.5	%	51-149		1		04/04/00 1:47	CJ	235281
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: mg/Kg**		
Benzene	ND		0.001		1		04/04/00 1:47	CJ	235225
Ethylbenzene	ND		0.001		1		04/04/00 1:47	CJ	235225
Methyl tert-butyl ether	ND		0.001		1		04/04/00 1:47	CJ	235225
Toluene	ND		0.001		1		04/04/00 1:47	CJ	235225
m,p-Xylene	ND		0.001		1		04/04/00 1:47	CJ	235225
o-Xylene	ND		0.001		1		04/04/00 1:47	CJ	235225
Xylenes,Total	ND		0.001		1		04/04/00 1:47	CJ	235225
Surr: 1,4-Difluorobenzene	91.7	%	59-127		1		04/04/00 1:47	CJ	235225
Surr: 4-Bromofluorobenzene	100	%	48-156		1		04/04/00 1:47	CJ	235225

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
6880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: S-11-GP2 **Collected:** 3/29/00 2:55:00 **SPL Sample ID:** 00030881-10

Site: 7-0235,19802887

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: mg/Kg**		
Gasoline Range Organics	ND		1		1		04/04/00 2:20	CJ	235282
Surr: 1,4-Difluorobenzene	88.2	%	72-153		1		04/04/00 2:20	CJ	235282
Surr: 4-Bromofluorobenzene	82.5	%	51-149		1		04/04/00 2:20	CJ	235282
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: mg/Kg**		
Benzene	ND		0.001		1		04/04/00 2:20	CJ	235228
Ethylbenzene	ND		0.001		1		04/04/00 2:20	CJ	235228
Methyl tert-butyl ether	ND		0.001		1		04/04/00 2:20	CJ	235228
Toluene	ND		0.001		1		04/04/00 2:20	CJ	235228
m,p-Xylene	ND		0.001		1		04/04/00 2:20	CJ	235228
o-Xylene	ND		0.001		1		04/04/00 2:20	CJ	235228
Xylenes, Total	ND		0.001		1		04/04/00 2:20	CJ	235228
Surr: 1,4-Difluorobenzene	93.5	%	59-127		1		04/04/00 2:20	CJ	235228
Surr: 4-Bromofluorobenzene	99.4	%	48-156		1		04/04/00 2:20	CJ	235228

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: W-13-GP1 **Collected:** 3/29/00 10:30:00 **SPL Sample ID:** 00030881-16

Site: 7-0235,19802887

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	ND		50		1		04/03/00 19:43	WR	235180
Surr: 1,4-Difluorobenzene	101	%	62-144		1		04/03/00 19:43	WR	235180
Surr: 4-Bromofluorobenzene	100	%	44-153		1		04/03/00 19:43	WR	235180
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5		1		04/03/00 19:43	WR	235157
Ethylbenzene	ND		0.5		1		04/03/00 19:43	WR	235157
Methyl tert-butyl ether	ND		2		1		04/03/00 19:43	WR	235157
Toluene	ND		0.5		1		04/03/00 19:43	WR	235157
m,p-Xylene	ND		0.5		1		04/03/00 19:43	WR	235157
o-Xylene	ND		0.5		1		04/03/00 19:43	WR	235157
Xylenes,Total	ND		0.5		1		04/03/00 19:43	WR	235157
Surr: 1,4-Difluorobenzene	103	%	72-137		1		04/03/00 19:43	WR	235157
Surr: 4-Bromofluorobenzene	104	%	48-156		1		04/03/00 19:43	WR	235157

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: W-23-GP1 **Collected:** 3/29/00 11:30:00 **SPL Sample ID:** 00030881-17

Site: 7-0235,19802887

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND		50		1		04/03/00 20:07	WR	235181
Surr: 1,4-Difluorobenzene	87.6	%	62-144		1		04/03/00 20:07	WR	235181
Surr: 4-Bromofluorobenzene	103	%	44-153		1		04/03/00 20:07	WR	235181
PURGEABLE AROMATICS				MCL	SW8021B		Units: ug/L		
Benzene	ND		0.5		1		04/03/00 20:07	WR	235158
Ethylbenzene	ND		0.5		1		04/03/00 20:07	WR	235158
Methyl tert-butyl ether	ND		2		1		04/03/00 20:07	WR	235158
Toluene	ND		0.5		1		04/03/00 20:07	WR	235158
m,p-Xylene	ND		0.5		1		04/03/00 20:07	WR	235158
o-Xylene	ND		0.5		1		04/03/00 20:07	WR	235158
Xylenes,Total	ND		0.5		1		04/03/00 20:07	WR	235158
Surr: 1,4-Difluorobenzene	102	%	72-137		1		04/03/00 20:07	WR	235158
Surr: 4-Bromofluorobenzene	107	%	48-156		1		04/03/00 20:07	WR	235158

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
6880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: W-12-GP2 **Collected:** 3/29/00 3:10:00 **SPL Sample ID:** 00030881-18

Site: 7-0235,19802887

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed.	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	100		50		1		04/03/00 20:31	WR	235182
Surr: 1,4-Difluorobenzene	93.9	%	62-144		1		04/03/00 20:31	WR	235182
Surr: 4-Bromofluorobenzene	103	%	44-153		1		04/03/00 20:31	WR	235182
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5		1		04/03/00 20:31	WR	235159
Ethylbenzene	ND		0.5		1		04/03/00 20:31	WR	235159
Methyl tert-butyl ether	ND		2		1		04/03/00 20:31	WR	235159
Toluene	ND		0.5		1		04/03/00 20:31	WR	235159
m,p-Xylene	ND		0.5		1		04/03/00 20:31	WR	235159
o-Xylene	ND		0.5		1		04/03/00 20:31	WR	235159
Xylenes,Total	ND		0.5		1		04/03/00 20:31	WR	235159
Surr: 1,4-Difluorobenzene	104	%	72-137		1		04/03/00 20:31	WR	235159
Surr: 4-Bromofluorobenzene	105	%	48-156		1		04/03/00 20:31	WR	235159

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: W-23-GP2 **Collected:** 3/29/00 4:25:00 **SPL Sample ID:** 00030881-19

Site: 7-0235,19802887

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	CA_GRO		Units: ug/L		
Gasoline Range Organics	ND		50		1		04/03/00 20:56	WR	235183
Surr: 1,4-Difluorobenzene	88.1	%	62-144		1		04/03/00 20:56	WR	235183
Surr: 4-Bromofluorobenzene	104	%	44-153		1		04/03/00 20:56	WR	235183
PURGEABLE AROMATICS				MCL	SW8021B		Units: ug/L		
Benzene	ND		0.5		1		04/03/00 20:56	WR	235160
Ethylbenzene	ND		0.5		1		04/03/00 20:56	WR	235160
Methyl tert-butyl ether	ND		2		1		04/03/00 20:56	WR	235160
Toluene	ND		0.5		1		04/03/00 20:56	WR	235160
m,p-Xylene	ND		0.5		1		04/03/00 20:56	WR	235160
o-Xylene	ND		0.5		1		04/03/00 20:56	WR	235160
Xylenes,Total	ND		0.5		1		04/03/00 20:56	WR	235160
Surr: 1,4-Difluorobenzene	102	%	72-137		1		04/03/00 20:56	WR	235160
Surr: 4-Bromofluorobenzene	108	%	48-156		1		04/03/00 20:56	WR	235160

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: SP-1-1 **Collected:** 3/29/00 5:05:00 **SPL Sample ID:** 00030881-20

Site: 7-0235,19802887

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	CA_GRO		Units: mg/Kg		
Gasoline Range Organics	ND		1		1		04/04/00 7:42	CJ	235289
Surr: 1,4-Difluorobenzene	89.4	%	72-153		1		04/04/00 7:42	CJ	235289
Surr: 4-Bromofluorobenzene	84.0	%	51-149		1		04/04/00 7:42	CJ	235289
PURGEABLE AROMATICS				MCL	SW8021B		Units: mg/Kg		
Benzene	ND		0.001		1		04/04/00 7:42	CJ	235241
Ethylbenzene	ND		0.001		1		04/04/00 7:42	CJ	235241
Methyl tert-butyl ether	ND		0.001		1		04/04/00 7:42	CJ	235241
Toluene	ND		0.001		1		04/04/00 7:42	CJ	235241
m,p-Xylene	ND		0.001		1		04/04/00 7:42	CJ	235241
o-Xylene	ND		0.001		1		04/04/00 7:42	CJ	235241
Xylenes,Total	ND		0.001		1		04/04/00 7:42	CJ	235241
Surr: 1,4-Difluorobenzene	91.3	%	59-127		1		04/04/00 7:42	CJ	235241
Surr: 4-Bromofluorobenzene	103	%	48-156		1		04/04/00 7:42	CJ	235241

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution

Quality Control Documentation

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

222903X

Analysis: Purgeable Aromatics
Method: SW8021B
WorkOrder: 00030881
Lab Batch ID: R11678

Method Blank

RunID: HP_U_000403A-235150 Units: ug/L
Analysis Date: 04/03/2000 15:39 Analyst: WR

Analyte	Result	Rep Limit
Benzene	ND	0.50
Ethylbenzene	ND	0.50
Methyl tert-butyl ether	ND	2.0
Toluene	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50
Xylenes,Total	ND	0.50
Surr: 1,4-Difluorobenzene	103.0	72-137
Surr: 4-Bromofluorobenzene	105.1	48-156

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00030881-16A	W-13-GP1
00030881-17A	W-23-GP1
00030881-18A	W-12-GP2
00030881-19A	W-23-GP2

Laboratory Control Sample (LCS)

RunID: HP_U_000403A-235149 Units: ug/L
Analysis Date: 04/03/2000 14:35 Analyst: WR

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	45	90	61	119
Ethylbenzene	50	45	91	70	118
Methyl tert-butyl ether	50	46	92	72	128
Toluene	50	45	91	65	125
m,p-Xylene	100	90	90	72	116
o-Xylene	50	46	91	72	117
Xylenes,Total	150	136	91	72	117

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00030854-05
RunID: HP_U_000403A-235151 Units: ug/L
Analysis Date: 04/03/2000 16:03 Analyst: WR

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20	97.8	20	20	100	2.15	21	32	164
Ethylbenzene	ND	20	20	98.2	20	20	100	1.90	19	52	142
Methyl tert-butyl ether	ND	20	21	104	20	21	105	0.415	20	39	150
Toluene	ND	20	20	97.6	20	20	99.9	2.40	20	38	159

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

222903X

Analysis: Purgeable Aromatics
Method: SW8021B
WorkOrder: 00030881
Lab Batch ID: R11678

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00030854-05
RunID: HP_U_000403A-235151 Units: ug/L
Analysis Date: 04/03/2000 16:03 Analyst: WR

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m-Xylene	ND	40	38	96.1	40	38	96.0	.0664	17	53	144
o-Xylene	ND	20	19	96.6	20	20	97.7	1.21	18	53	143
Xylenes,Total	ND	60	57	95.0	60	58	96.7	1.74	18	53	144

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

222903X

Analysis: Gasoline Range Organics **WorkOrder:** 00030881
Method: CA_GRO **Lab Batch ID:** R11680

Method Blank

RunID: HP_U_000403B-235175 Units: mg/L
Analysis Date: 04/03/2000 17:41 Analyst: WR

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	92.7	62-144
Surr: 4-Bromofluorobenzene	100.5	44-153

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00030881-16A	W-13-GP1
00030881-17A	W-23-GP1
00030881-18A	W-12-GP2
00030881-19A	W-23-GP2

Laboratory Control Sample (LCS)

RunID: HP_U_000403B-235172 Units: mg/L
Analysis Date: 04/03/2000 14:59 Analyst: WR

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	1	100	64	131

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00030854-06
RunID: HP_U_000403B-235173 Units: mg/L
Analysis Date: 04/03/2000 16:52 Analyst: WR

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.92	102	0.9	0.97	108	5.62	36	36	160

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

222903X

Analysis: Purgeable Aromatics **WorkOrder:** 00030881
Method: SW8021B **Lab Batch ID:** R11682

Method Blank

RunID: HP_R_000403A-235199 Units: ug/Kg
Analysis Date: 04/03/2000 20:59 Analyst: CJ

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,4-Difluorobenzene	94.1	59-127
Surr: 4-Bromofluorobenzene	98.1	48-156

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00030881-02A	S-9-GP1
00030881-03A	S-11-GP1
00030881-09A	S-9-GP2
00030881-10A	S-11-GP2
00030881-20A	SP-1-1

Laboratory Control Sample (LCS)

RunID: HP_R_000403A-235487 Units: ug/Kg
Analysis Date: 04/04/2000 8:19 Analyst: CJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	48	95	60	116
Ethylbenzene	50	48	95	68	127
Methyl tert-butyl ether	50	42	84	64	126
Toluene	50	47	94	64	122
m,p-Xylene	100	94	94	68	129
o-Xylene	50	47	94	68	127
Xylenes,Total	150	141	94	68	129

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00030881-07
RunID: HP_R_000403A-235195 Units: ug/Kg
Analysis Date: 04/03/2000 18:49 Analyst: CJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	15	77.1	20	14	70.8	8.58	34	35	139
Ethylbenzene	ND	20	15	76.0	20	14	71.0	6.78	35	31	137
Methyl tert-butyl ether	ND	20	14	68.0	20	12	61.0	10.9	22	27	196
Toluene	ND	20	16	78.0	20	14	71.5	8.72	28	31	137

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

222903X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00030881
Lab Batch ID: R11682

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00030881-07
RunID: HP_R_000403A-235195 Units: ug/Kg
Analysis Date: 04/03/2000 18:49 Analyst: CJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m,p-Xylene	ND	40	30	75.4	40	28	70.7	6.41	38	19	144
o-Xylene	ND	20	15	74.8	20	14	70.0	6.63	57	25	139
Xylenes,Total	ND	60	45	75.0	60	42	70.0	6.90	38	19	144

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

222903X

Analysis: Gasoline Range Organics
Method: CA_GRO
WorkOrder: 00030881
Lab Batch ID: R11684

Method Blank

RunID: HP_R_000403B-235272 Units: mg/Kg
Analysis Date: 04/03/2000 20:59 Analyst: CJ

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	1.0
Surr: 1,4-Difluorobenzene	91.1	72-153
Surr: 4-Bromofluorobenzene	81.1	51-149

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00030881-02A	S-9-GP1
00030881-03A	S-11-GP1
00030881-09A	S-9-GP2
00030881-10A	S-11-GP2
00030881-20A	SP-1-1

Laboratory Control Sample (LCS)

RunID: HP_R_000403B-235269 Units: mg/Kg
Analysis Date: 04/03/2000 18:22 Analyst: CJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.58	58	53	137

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00030881-07
RunID: HP_R_000403B-235270 Units: mg/Kg
Analysis Date: 04/03/2000 19:54 Analyst: CJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.84	93.8	0.9	0.8	88.6	5.67	50	36	163

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution

Chain of Custody

And

Sample Receipt Checklist

EXXON COMPANY, USA (West Coast)

CHAIN OF CUSTODY RECORD No. [redacted] Page 1 of 2

Exxon Engineer: Darin L. Rouse Phone: (925) 246-8768
Consultant Co. Name: EKI Contact: JAMES CHAMBERLAIN
Address: 73 Digital Drive Fax: 415 382-1856
Suite 100, NOVATO CA 94949
RAS #: 7-0235 Facility/State ID # (TN Only):
AFE # (Terminal Only): Consultant Project #: 221903X
Location: 2225 Telegraph AVE (City) OAKLAND (State) CA
☒ EE ☐ C&M ☐ SDT
Consultant Work Release #: 19802887
Sampled By: D. Crouse

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX: H_2O	SOIL	AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 GRO ☒ / 8015 DRO ☐	BTEX 8020 ☒ / 602 ☐	MTBE 8020 ☒ / 8260 ☒	OXYGENATES (7) 8260 ☐	O&G IR 413.1 ☐ / GRAV. 413.2 ☐	VOL. 8260 ☐ / 624 ☐	SEMI-VOL 8270 ☐ / 625 ☐	PNA/PAH 8100 ☐ / 8310 ☐ / 8270 ☐	PCB/PEST 8081/8082 ☐ / PCB ONLY ☐	TCLP FULL: VOA ☐ SEMIVOA ☐ PEST ☐ HERB ☐	METALS, TOTAL ☐ / METALS, TCLP ☐	LEAD, TOTAL 239.1 ☐ / 7421 ☐ / LEAD, TCLP ☐	LEAD, DISSOLVED ☐ / LEAD TOTAL ☐	REACTIVITY ☐ CORROSIVITY ☐ FLASH POINT ☐	PURGEABLE HYDROCARBON 8010 ☐ / 601 ☐	TPH/IR 418.1 ☐	TOX/TOH ☐
S-5-GP1	3/29	1000				X			ICE	1	2x6	Hold																
S-9-GP1		1005				X				1		X	X	X														
S-11-GP1		1010				X				1		X	X	X														
S-13-GP1		1015				X				1		Hold																
S-15-GP1		1020				X				1		Hold																
S-17-GP1		1040				X				1		Hold																
S-20-GP1		1100				X				1		Hold																
S-5-GP2		1445				X				1		Hold																
S-9-GP2		1450				X				1		X	X	X														
S-11-GP2	↓	1455				X			↓	1	↓	X	X	X														

RUSH

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX) — OTHER

TAT
24 HR. ___* 72 HR. ___*
48 HR. ___* 96 HR. ___*
8 Business X *Contact US Prior to Sending Sample
Other ___

EXXON UST CONTRACT NO. C41483

SPECIAL DETECTION LIMITS (Specify)

REMARKS:

QA/QC Level
Standard X CLP ☐ Other ☐ ___

SPECIAL REPORTING REQUIREMENTS (Specify)
PDF ☐ ☐ EDD
FAX X ☐ FAX C-O-C W/REPORT

LAB USE ONLY Lot # 550 EDD Storage Location
WORK ORDER #: 00030881 LAB WORK RELEASE #:

CUSTODY RECORD

Relinquished By Sampler: Dylan K. Crouse	3/30/00	Time	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	Date	Time	Received By: 1000
			Way Bill #: 3/31/00 Cooler Temp: 4

Triplicate: Original • White Lab's Copy • Green Client Copy • Yellow

EXXON COMPANY, USA (West Coast)

CHAIN OF CUSTODY RECORD NO. [redacted] PAGE 2 of 2

Exxon Engineer: Daryn L. Rouse Phone: (925) 246-8768

Consultant Co. Name: ERI Contact: James Chappell

Address: 73 Digital Drive Fax: 415-382-1856

Suite 100, Novato CA 94949

RAS #: 7-0235 Facility/State ID # (TN Only):

AFE # (Terminal Only): Consultant Project #: 22903X

Location: 2225 Telegraph Ave (City) Oakland (State) CA

☒ EE ☐ C&M ☐ SDT

Consultant Work Release #: 19802887

Sampled By: D. Crase

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX: H_2O	MATRIX: SOIL	MATRIX: AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 GRO ☒	TPH/GC 8015 DRO ☐	BTEX 8020 ☒	BTEX 602 ☐	MTBE 8020 ☒	MTBE 8260 ☒ confirmation	OXYGENATES (7) 8260 ☐	O&G IR 413.1 ☐	O&G GRAV. 413.2 ☐	VOL. 8260 ☐	624 ☐	SEMI-VOL 8270 ☐	625 ☐	PNA/PAH 8100 ☐	8310 ☐	8270 ☐	PCB/PEST 8081/8082 ☐	PCB ONLY ☐	TCLP FULL ☐ VOA ☐ SEMIVOA ☐ PEST ☐ HERB ☐	METALS, TOTAL ☐	METALS, TCLP ☐	LEAD, TOTAL 239.1 ☐	7421 ☐	LEAD, TCLP ☐	LEAD, DISSOLVED ☐	LEAD TOTAL ☒	REACTIVITY ☐	CORROSIVITY ☐	FLASH POINT ☐	PURGEABLE HYDROCARBON 8010 ☒	601 ☐	TPH/IR 418.1 ☐	TOX/TOH ☐
S-13-GP2	3/29	1500				X			ICE	1	2½"		Hold																											
S-15-GP2		1520				X				1			Hold																											
S-17-GP2		1525				X				1			Hold																											
S-19-GP2		1530				X				1			Hold																											
S-21-GP2		1535				X				1			Hold																											
W-13-GP1		1030		X	X				HCL	6	40ml		X	X	X	X																							
W-23-GP1		1130		X	X				HCL	6			X	X	X	X																							
W-12-GP2		1510		X	X				HCL	6			X	X	X	X																							
W-23-GP2		1625		X	X				HCL	3			X	X	X	X																							
SP-1-1		1705				X				1	2½"		X	X	X	X																				X			

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)

OTHER

TAT

24 HR. ___* 72 HR. ___*

48 HR. ___* 96 HR. ___*

8 Business ☒ *Contact US Prior to Sending Sample

Other ___

EXXON UST CONTRACT NO. C41483

QA/QC Level: Standard ☒ CLP ☐ Other ☐ ___

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ ☐ EDD

FAX ☐ ☐ FAX C-O-C W/REPORT

REMARKS: MTBE confirmation using 8260

LAB USE ONLY Lot # Storage Location

WORK ORDER #: LAB WORK RELEASE #:

CUSTODY RECORD

Relinquished By Sampler: Dylan R. Crase	3/30/00	11:45	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	Date	Time	Received By: Way Bill #: [redacted] 3/31/00 Cooler Temp: 1000

Triplicate: Original • White Lab's Copy • Green Client Copy • Yellow

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	00030881	Received by:	Stelly, D'Anna
Date and Time Received:	3/31/00 10:00:00 AM	Carrier name:	FedEx
Temperature:	4		

Shipping container/cooler in good condition?	Yes	☑	No ☐	Not Present	☐
Custody seals intact on shippping container/cooler?	Yes	☐	No ☐	Not Present	☑
Custody seals intact on sample bottles?	Yes	☐	No ☐	Not Present	☑
Chain of custody present?	Yes	☑	No ☐		
Chain of custody signed when relinquished and received?	Yes	☑	No ☐		
Chain of custody agrees with sample labels?	Yes	☑	No ☐		
Samples in proper container/bottle?	Yes	☑	No ☐		
Sample containers intact?	Yes	☑	No ☐		
Sufficient sample volume for indicated test?	Yes	☑	No ☐		
All samples received within holding time?	Yes	☑	No ☐		
Container/Temp Blank temperature in compliance?	Yes	☑	No ☐		
Water - VOA vials have zero headspace?	Yes	☑	No ☐	Not Present	☐
Water - pH acceptable upon receipt?	Yes	☑	No ☐		