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ExxonMobil
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February 22, 2001

Mr. Scott Seery
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, CA 94501-6577

Subject: Former Exxon RAS #7-3399, 2991 Hopyard Road, Pleasanton, California

Dear Mr. Seery:

Attached for your review and comment is a copy of the *Well Installation Report* dated February 2001 for the above-referenced site. The report was prepared by ETIC Engineering, Inc. of Pleasant Hill, California, and documents the installation of three offsite groundwater monitoring wells. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached report is true and correct.

Please note that from this date forward, I will be the ExxonMobil contact for this site. If you have any questions or comments, please contact me at (925) 246-8747.

Sincerely,



Gene N. Ortega
Senior Engineer

pg 8?

Attachment: ETIC Well Installation Report dated February 2001

c: w/attachment:
Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region
Mr. Matthew Katen – Zone 7 Water Agency
Mr. Stephen Cusenza – City of Pleasanton Public Works Department
Mr. Thomas Elson – Luhdorff and Scalmanini Consulting Engineers
Mr. Winson B. Low – Valero Energy Corporation
Mr. Jude Marcal – U.S. Bank

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



Well Installation Report

**Former Exxon Retail Site 7-3399
2991 Hopyard Road
Pleasanton, California**

Prepared for

ExxonMobil Refining and Supply Company
P.O. Box 4032
2300 Clayton Road, Suite 1250
Concord, California 94524-4032

Prepared by

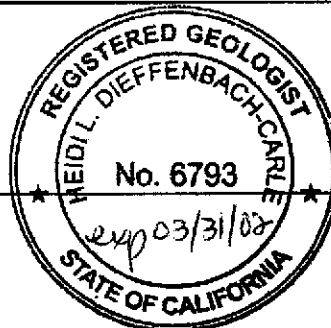
ETIC Engineering, Inc.
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(925) 602-4710

Joseph T. Muehleck
Project Manager

2/21/01

Date

Heidi Dieffenbach-Carle, R.G. #6793
Senior Geologist



February 20, 2001

Date

February 2001

CONTENTS

	<u>Page</u>
LIST OF FIGURES AND TABLES	
SITE CONTACTS	
1. INTRODUCTION	1
2. SITE BACKGROUND	2
2.1 SITE LOCATION AND LAND USE	2
2.2 SITE HISTORY AND STATUS	2
2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY	3
2.4 GEOLOGY AND HYDROGEOLOGY IN SITE VICINITY	3
3. SUBSURFACE INVESTIGATION	5
3.1 DRILLING OF SOIL BORINGS	5
3.2 SOIL SAMPLING	5
3.3 WELL INSTALLATION	6
3.4 WELL DEVELOPMENT	6
3.5 GROUNDWATER SAMPLING	7
3.6 SURVEYING OF GROUNDWATER MONITORING WELLS	7
3.7 WELL DESTRUCTION	7
3.8 WASTE CONTAINMENT AND DISPOSAL	7
4. RESULTS	8
4.1 SITE GEOLOGY AND HYDROGEOLOGY	8
4.2 SOIL ANALYTICAL METHODS AND RESULTS	8
4.3 GROUNDWATER ANALYTICAL METHODS AND RESULTS	8
5. SUMMARY	10
REFERENCES	11
FIGURES	
TABLES	
APPENDIX A:	Correspondence from the Alameda County Health Agency
APPENDIX B:	Permits
APPENDIX C:	Protocols for Borehole and Well Drilling, Completion, Development, and Sampling
APPENDIX D:	Boring Logs and Well Completion Diagrams
APPENDIX E:	Well Development Forms
APPENDIX F:	Laboratory Analytical Reports and Chain-of-Custody Documentation
APPENDIX G:	Non-hazardous Waste Manifests

LIST OF FIGURES AND TABLES

Former Exxon RS 7-3399

<u>Number</u>	<u>Description</u>
Figures	
1	Site plan.
2	Site vicinity map showing geologic cross-section lines.
3	Geologic cross-section A-A'.
4	Geologic cross-section B-B'.
5	Site plan showing groundwater elevations and groundwater sample analytical results for 26 September 2000.
Tables	
1	Well construction details.
2	Groundwater monitoring data.

SITE CONTACTS

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Pleasanton, California

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1. INTRODUCTION

This report documents the installation of three offsite groundwater monitoring wells (MW12A, MW13, and MW14) and the installation and destruction of one groundwater monitoring well (MW12) in the vicinity of former Exxon Retail Site (RS) 7-3399, located at 2991 Hopyard Road, Pleasanton, California (Figures 1 and 2).

ETIC Engineering, Inc. (ETIC) was retained by ExxonMobil Refining and Supply Company (ExxonMobil) to install the wells as part of a scope of work agreed upon by the Alameda County Health Agency (ACHA) and other interested parties at a meeting held on 2 May 2000. The meeting was attended by representatives from the ACHA, the City of Pleasanton, the Zone 7 Water Agency (Zone 7), the California Regional Water Quality Control Board San Francisco Bay Region, ETIC, and ExxonMobil. The well installations were requested to monitor groundwater between the site and two water supply wells. The water supply wells belong to the City of Pleasanton (Pleasanton well 7) and Zone 7 (well Hop 4) and are located within 1,000 feet of the site, as shown on Figure 2.

ETIC prepared and submitted a work plan, dated May 2000, detailing the proposed installation of the offsite wells (ETIC 2000a). The work plan called for the installation of the wells using air rotary drilling. Due to space constraints and the amount of water produced by air rotary drilling below the water table, it was later decided that sonic drilling would be a more practical method for installing the wells. As such, ETIC prepared and submitted an addendum to the work plan, dated August 2000 (ETIC 2000b), which outlined the installation of the wells using the sonic drilling method. Concurrence of the proposed work was given in a letter from the ACHA dated 10 August 2000. A copy of the letter from the ACHA is included in Appendix A.

Scope of Work

The investigation consisted of the following activities:

- From 15 through 30 August 2000, four soil borings, MW12, MW12A, MW13, and MW14, were drilled to depths of 132, 136, 73, and 143 feet below ground surface (bgs), respectively. The borings were located to the north and northwest of the site across Valley Avenue and drilled using the sonic drilling method. The borings were completed as groundwater monitoring wells with 2-inch casings. MW12A was drilled and installed as a groundwater monitoring well to replace MW12, which had a damaged casing.
- Due to its damaged casing, well MW12 was destroyed by pressure grouting.
- Wells MW12A, MW13, and MW14 were developed on 20 September 2000.
- On 26 September 2000, groundwater samples were collected from MW12A, MW13, and MW14 along with the other onsite and offsite wells in conjunction with quarterly groundwater monitoring (ETIC 2000c).

2. SITE BACKGROUND

2.1 SITE LOCATION AND LAND USE

Former Exxon RS 7-3399 is an active retail service station located at 2991 Hopyard Road, on the southeast corner of the intersection with Valley Avenue in Pleasanton, California. The site has six pump islands and two 10,000-gallon and one 12,000-gallon double-walled fiberglass underground storage tanks (USTs) for dispensing three grades of gasoline. Auto repair is conducted in the onsite station building. The site is relatively flat and at an elevation of approximately 321 feet.

2.2 SITE HISTORY AND STATUS

Former fuel USTs, originally installed in 1971, were removed from the site in 1988. The current fuel USTs have been in place since that time. The station underwent upgrades in 1997, at which time a 1,000-gallon used-oil tank was removed (Delta 1997). Former and current station features are shown in Figure 1. Operation of the site was taken over by Valero Energy Corporation in June 2000.

Environmental assessment and remedial actions have been conducted at the site since 1988 and have included: soil and groundwater monitoring (1988-present), excavation to 31 feet bgs (39 feet bgs in one 8-by-8-foot area) in the area of the former fuel USTs (1988), liquid-phase hydrocarbon (LPH) removal (1988-1990), groundwater extraction (1988-1990), soil vapor extraction (1989-1993 and 1997-1998), and air sparging/bioventing (1997-2000). Investigations and remedial actions from 1988 to 1996 are summarized in a Problem Assessment Report/Remedial Action Plan (PAR/RAP) prepared by Delta Environmental Consultants, Inc. (Delta 1996). Remedial actions since that time are summarized in the second/third quarter 1999 monitoring report (Delta 1999).

Remedial actions to date have focused on the saturated clayey sand to gravel zone encountered from approximately 35 to 55 feet bgs, where water had been first encountered (referred to as Zone 1), and the silts and clays overlying this zone. Groundwater and soil vapor extraction influent concentrations had approached asymptotic levels before shutdown of the respective systems. With the exception of MW9, hydrocarbon concentrations in groundwater samples collected from wells screened in this zone have generally shown a stable or decreasing trend. Methyl tertiary butyl ether (MTBE) has been detected in several wells in Zone 1 since quarterly MTBE analysis began in 1995. MTBE has been detected at higher concentrations in groundwater samples recently collected from a perched water table located approximately 10 feet beneath portions of the site.

Well MW9 was pressure grouted and replaced with newly installed well MW9A in November 2000 as outlined in the Work Plan for Well Replacement dated October 2000 (ETIC 2000d). A report documenting the well replacement will be submitted under separate cover.

A groundwater extraction system is under construction at the site. Groundwater extraction is initially proposed from wells OW2, VR1, and MW9A. Extracted groundwater will be pumped from the extraction wells to the existing treatment compound via underground double-contained pipes. Groundwater will be treated by pre-filtration, and by adsorption by granular activated carbon (GAC) to remove dissolved chemicals to meet discharge permit limits. A permit to discharge the treated groundwater has been obtained from the Dublin-San Ramon Services District and is in effect. The system is described in greater detail in a letter to the ACHA dated 13 December 2000 (ETIC 2000e).

2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY

The site is located in the north-central portion of the Livermore Valley, within the Coast Range Geomorphic Province. The Livermore Valley slopes gently toward the west.

The Livermore Valley is underlain by non-water bearing rocks and water bearing rocks and sediments (DWR 1974). The non-water bearing rocks are marine sandstone, shale, and conglomerate, and sandstone of Eocene to Miocene age. These rocks are exposed in the hills surrounding Livermore Valley and are found at depths greater than 1,000 feet beneath the valley floor.

The Plio-Pleistocene age Livermore Formation overlaps the Tassajara Formation beneath the north portion of the valley and is exposed over broad regions south of the valley. Sediments of this formation consist primarily of clayey gravel in a sandy clay matrix. Sedimentary units south of the valley dip gently north, are nearly level beneath the valley floor, and dip gently south beneath the north edge of the valley (DWR 1974).

Surficial valley-fill materials overlie both the Tassajara Foundation and the Livermore Formation and range in thickness from a few feet to approximately 400 feet. The Pleistocene to Holocene age sediments include unconsolidated sand, gravel, and clay which occur as terrace deposits, alluvial fan deposits with gravelly clayey facies, alluvium, basin deposits, or channel deposits of active streams (DWR 1974).

Groundwater beneath the area of investigation is located within the Livermore groundwater basin. The sediments and water bearing units comprising the basin include valley-fill materials, the Tassajara Formation, and the Livermore Formation (DWR 1974). The Livermore Valley groundwater basin is characterized by hydrologic discontinuities, and is segregated into sub-basins on the basis of localized faults. The Livermore Valley groundwater system is a multi-layered system with an unconfined aquifer overlying sequential partially confined aquifers. Groundwater in the basin generally flows to the west (DWR 1974). The principal streams in the area are Arroyo Valley Creek and Arroyo Mocho Creek, which flow toward the western end of the valley. Both creeks are greater than one half mile from the site.

2.4 GEOLOGY AND HYDROGEOLOGY IN SITE VICINITY

Figure 2 shows the locations of geologic cross-sections A-A' and B-B' (Figures 3 and 4) representing subsurface conditions in the vicinity. Larger copies of Figures 3 and 4 are provided in a sleeve in the back of this document. It should be noted that previous cross-sections related to this site showed two different locations for Pleasanton well 7 and Pleasanton test hole 7. It has been determined that they are in the same location. The log used for cross-section A-A' was from Pleasanton test hole 7 because it was considered to be more accurate (Binkley 1968). Three water bearing zones, named Zones 1, 2, and 3 for the purposes of this report, have been identified to the total depth explored beneath the site vicinity. Although these zones were encountered at varying depths, a typical geologic section is described below:

- Zone 1 - A clayey sand to gravel zone from approximately 35 to 55 feet bgs. Silts and clays from approximately 55 to 67 feet bgs underlying this zone are indicated in the areas explored.

- Zone 2 - A silty sand to gravelly sand is present beneath the silts and clays from approximately 67 to 82 feet bgs. Similar water levels in MW5S, screened in Zone 1, and MW5D, screened in Zone 2, indicate that these two zones may be hydraulically connected. Beneath Zone 2 in the areas explored, a clay layer is present from approximately 82 to 120 feet bgs.
- Zone 3 - Beneath the clay layer another saturated zone is observed which grades from silty sand to gravel to the total depth explored beneath the site vicinity (143 feet bgs). Similar lithology is observed in Pleasanton well 7. The uppermost screen in Pleasanton well 7 is located in this zone.

A perched water table has recently been discovered at an approximate depth of 10 feet bgs beneath portions of the site. In December 1999, six monitoring wells (PMW1-PMW6) were installed in this perched zone. UST backfill wells OW1 and OW2 are also considered to be part of this zone. Well VR1, screened from approximately 10-30 feet bgs in the former UST overexcavation area, appears to cross this zone, although water has been encountered at an approximate depth of 20 feet bgs since routine gauging began in June 1999 in this well.

Groundwater flow direction in the perched zone has been estimated to be to the east to southeast during the four gauging events to date in December 1999, April 2000, June 2000, and September 2000. Groundwater flow direction in Zone 1 during these four gauging events was to the northwest. Depth to water has ranged from approximately 28 to 55 feet bgs in this zone, and was measured at approximately 43 feet bgs in September 2000. Groundwater flow direction could not be estimated in deeper zones beneath the site vicinity. The direction and gradient of groundwater flow in the perched zone and Zone 1 estimated for 26 September 2000 is provided on Figure 5.

Pump tests conducted in 1988 did not indicate any hydraulic communication between Pleasanton well 7 and Zone 1 beneath the site (Delta 1996). Recent pumping and injection tests at Zone 7 wells (Hop 4, 6, and 9) (Figure 2) indicate that there may be some communication with MW8. The top of the shallowest screen in the Zone 7 wells is at approximately 215 feet bgs (Hop 6). MW8 is screened in Zone 3 from 118 to 133 feet bgs.

3. SUBSURFACE INVESTIGATION

ETIC observed the installation of groundwater monitoring wells MW12, MW12A, MW13, and MW14 and the destruction of well MW12 from 15 through 30 August 2000. The wells were drilled and installed by Boart Longyear (C-57 License #694686). The wells were installed to monitor groundwater between the site and two water supply wells. The water supply wells belong to the City of Pleasanton (Pleasanton well 7) and Zone 7 (well Hop 4) and are located within 1,000 feet of the site, as shown in Figure 2. Permits were obtained from Zone 7 prior to drilling. Copies of the permits are provided in Appendix B.

- MW13 was installed to monitor groundwater in Zone 2 between the site and wells Hop 4 and 9 at a similar depth to MW5D.
- MW12 was installed to monitor groundwater in Zone 3 between the site and wells Hop 4 and 9. MW12 was later destroyed by pressure grouting due to a damaged casing and was replaced with well MW12A.
- MW14 was installed to monitor groundwater in Zone 3 between the site and Pleasanton well 7.

3.1 DRILLING OF SOIL BORINGS

The borings were drilled using the sonic drilling method. The rig was equipped with an 8.3-inch diameter outer casing and a 10-foot-long, 6.3-inch-diameter inner core barrel. The sonic drilling method uses a combination of rotation, hydraulic pressure, and mechanical oscillation to advance the outer casing and an inner core barrel. The inner core barrel is advanced into the formation until full or until the sample blocks the passage of additional material into the barrel. The outer casing is advanced to prevent collapse of the borehole during retrieval of soil via the inner core barrel. A more detailed description of the sonic drilling method is provided in Appendix C.

Prior to drilling each well, a hole, designated as the delineation area, was cleared to a depth of 4 feet bgs using a hand auger. This procedure was performed to ensure that there were no obstructions near the potential path of the drill barrels. The barrels and downhole equipment were cleaned by pressure washing before drilling began and upon completion of each borehole. Equipment rinsate water was collected in a trough, pumped into 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 continuously from the surface to the total depth of all borings with the exception of MW12A, where no samples were collected from the surface to 110 feet bgs. The samples were collected by driving the inner core barrel into the formation. The soil inside the inner core barrel was retrieved to the surface and transferred into a cylindrical polyethylene bag.

The contents of the cylindrical bags were examined for geologic descriptions. Soil descriptions are recorded on the soil boring logs presented in Appendix D. Selected samples were collected from the cylindrical bags and placed in sealed 1-gallon bags for particle-size analysis.

All soil cuttings generated during drilling were placed into 55-gallon drums and temporarily stored on the site.

3.3 WELL INSTALLATION

Borings MW12, MW12A, MW13, and MW14 were completed as groundwater monitoring wells, in general accordance with ETIC's protocols (Appendix C) and local regulations. After it was discovered that the casing in well MW12 had partially collapsed (see below), the construction of the subsequent wells was altered in order to avoid similar problems. Well construction details are summarized in Table 1 and are shown on the soil boring logs and well construction diagrams provided in Appendix D.

Well MW12 was constructed with 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) blank well casing and screened with 0.020-inch machine-slotted Schedule 40 PVC casing. A filter pack of #3 sand was placed to approximately 2 feet above the top of the screened interval of the well. The annular space was then sealed with a 2-foot layer of hydrated bentonite pellets, followed by neat cement grout to just below ground surface. After its construction, an obstruction was discovered at approximately 42 feet bgs. A video camera was lowered into the well and the obstruction appeared to be due to the partial collapse of the PVC casing. ETIC surmised that the casing may have collapsed due to the heating of the grout seal as it cured. As such, the construction of the remaining wells was altered in order to try to prevent any future casing problems. MW12 was later destroyed (Section 3.7).

Wells MW12A and MW14 were constructed with 2-inch-diameter Schedule 40 PVC blank well casing and screened with 0.020-inch machine-slotted Schedule 40 PVC casing. A filter pack of #3 sand was placed to approximately 2 feet above the top of the screened interval of the wells. The annular space was then sealed with a 2-foot layer of hydrated bentonite, followed by volclay grout to 20 feet bgs and then by neat cement grout to just below ground surface.

Well MW13 was constructed with 2-inch-diameter Schedule 40 PVC blank well casing from ground surface to 11.5 feet bgs, with 2-inch-diameter Schedule 40 stainless steel blank well casing from 11.5 to 61.5 feet bgs, and screened with 0.020-inch machine-slotted Schedule 80 PVC casing. A filter pack of #3 sand was placed to approximately 4 feet above the top of the screened interval of the well. The annular space was then sealed with a 2-foot layer of hydrated bentonite pellets, followed by neat cement grout to just below ground surface.

3.4 WELL DEVELOPMENT

Wells MW12A, MW13, and MW14 were developed on 20 September 2000. Each well was surged and purged using an electric submersible pump. At least 8 casing volumes of water were removed from each well, until groundwater parameters stabilized and the water was free of silt.

Well development procedures are described in Appendix C, and the records of well development are presented in Appendix E.

3.5 GROUNDWATER SAMPLING

Groundwater samples were collected from MW12A, MW13, and MW14 along with the other onsite and offsite wells on 26 September 2000 in conjunction with quarterly groundwater monitoring.

Groundwater samples were collected with clean disposable bailers. The samples were labeled with the time, date, location, and sample identification number and placed in a cooler with ice for delivery to Sequoia Analytical in Redwood City, California. Groundwater sampling procedures are described in Appendix C.

3.6 SURVEYING OF GROUNDWATER MONITORING WELLS

The top-of-casing elevation of wells MW12A, MW13, and MW14 will be surveyed by a licensed land surveyor.

3.7 WELL DESTRUCTION

Well MW12 was destroyed on 30 August 2000 due to a partially collapsed casing. A permit from Zone 7 was obtained prior to well destruction. The well lid and cap were removed and the well was destroyed by grouting the casing with neat cement grout. The grout was pumped into the well under pressure up to the top of the well. The area was resurfaced with asphalt to match surrounding conditions.

3.8 WASTE CONTAINMENT AND DISPOSAL

Forty-two 55-gallon drums of soil were generated during drilling activities. The soil was placed in 55-gallon drums and temporarily stored on the site. Three composite soil samples were collected from the drums, submitted to Sequoia Analytical in Redwood City, California, and analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX), and total lead in order to characterize the soil for proper disposal. The soil was removed from the site on 25 September 2000 by Dillard Environmental Services of Byron, California, and transported to the Vasco Landfill in Livermore, California. The laboratory analytical report and chain-of-custody documentation are included in Appendix F. A copy of the non-hazardous waste manifest is provided in Appendix G.

Ten 55-gallon drums of equipment rinsate water and other water was generated during drilling activities. The water was placed in 55-gallon drums and temporarily stored on the site. The water was removed from the site on 29 September 2000 by Service Station Systems of San Jose, California, and transported to the Crosby and Overton, Inc. treatment facility in Long Beach, California. A copy of the non-hazardous waste manifest is provided in Appendix G.

4. RESULTS

4.1 SITE GEOLOGY AND HYDROGEOLOGY

Lithology observed in MW12, MW12A, MW13, and MW14 is characteristic of that observed in other borings at the site and vicinity as detailed in Section 2.4. The three water bearing zones, Zones 1, 2, and 3, were encountered during the current investigation. Zone 1 was encountered in all borings (where logged) beneath layers of silty clay and clay and was characterized as layers of sand and gravel with sand. A confining unit separating Zone 1 and Zone 2 was discovered in all borings (where logged) composed of layers of silty clay and silt with clay. A layer of gravelly clay was observed as part of the confining unit in MW12 and MW13. The confining unit was 8.5 feet thick in MW12 and MW13 and 14.5 feet thick in MW14. Zone 3 was encountered beneath a clay unit and was composed of layers of sand and gravel with sand. In MW12, an additional layer of clayey silt (3 feet thick) was observed within Zone 3. Detailed soil descriptions are presented on the boring logs in Appendix D.

Static water levels in wells MW12A, MW13, and MW14 were measured on 26 September 2000. The levels for the wells were measured at 48.26 feet, 45.62 feet, and 46.90 feet below top of casing, respectively. A gradient in Zone 3 has not been determined because the wells have not yet been surveyed.

4.2 SOIL ANALYTICAL METHODS AND RESULTS

Selected soil samples were collected for laboratory analysis from borings MW12 and MW14. The soil samples were submitted to Southern Petroleum Laboratories (SPL), Inc. in Houston, Texas, and subcontracted by SPL to McBride-Ratcliff and Associates, Inc. in Houston, Texas, for particle-size analysis by ASTM D422. Copies of the laboratory reports and chain-of-custody documentation are provided in Appendix F.

The samples chosen for particle-size analysis were mostly from the permeable zones encountered in each of the soil borings. Analysis of these samples was done in order to provide additional data for determining the relative hydraulic conductivity of the permeable zones. The results of this analysis generally correlate well with soil classifications on the boring logs.

4.3 GROUNDWATER ANALYTICAL METHODS AND RESULTS

Groundwater samples were collected from MW12A, MW13, and MW14 along with other wells on 26 September 2000 in conjunction with quarterly groundwater monitoring. The samples were analyzed for TPH-g by EPA Method 8015, BTEX by EPA Method 8021, and MTBE by EPA Method 8260. Current and historical groundwater analytical results are summarized in Table 2 and results for MTBE, BTEX, and TPH-g are presented on Figure 5. Additional information, including copies of the laboratory analytical report and chain-of-custody documentation for these and other onsite and offsite wells, was provided in the third quarter groundwater monitoring report submitted under separate cover (ETIC 2000c).

In the groundwater sample collected from MW13, benzene was detected at a concentration of 0.504 µg/L and MTBE was detected at 1.62 µg/L. TPH-g, BTEX, and MTBE were not detected in

5. SUMMARY

From 15 through 30 August 2000, ETIC observed the installation of four groundwater monitoring wells (MW12, MW12A, MW13, and MW14) at former Exxon RS 7-3399 (MW12A was installed to replace MW12, which was damaged and properly destroyed). The well installations were requested to monitor groundwater between the site and water supply wells in the area. Soil samples were collected continuously from the borings and selected samples were analyzed for particle size to provide additional data for determining the relative hydraulic conductivity of the permeable zones.

Lithology observed in MW12, MW12A, MW13, and MW14 is characteristic of that observed in other borings at the site and vicinity. Static water levels in wells MW12A, MW13, and MW14 were measured at 48.26 feet, 45.62 feet, and 46.90 feet below top of casing, respectively.

Groundwater samples were collected from the wells and analyzed for TPH-g, BTEX, and MTBE. In MW13, benzene was detected at a concentration of 0.504 $\mu\text{g/L}$ and MTBE was detected at 1.62 $\mu\text{g/L}$. TPH-g, BTEX, and MTBE were not detected in groundwater samples from MW12A or MW14 at concentrations above laboratory reporting limits.

The newly installed wells have been incorporated into the quarterly monitoring schedule for the site. Gauging and analytical results will be reported quarterly.

REFERENCES

Binkley (Thad C. Binkley Associates Consulting Engineers). 1968. Well No. 7 Report and Data. Pleasanton Township County Water District, Pleasanton, California. Binkley, San Jose, California.

Delta (Delta Environmental Consultants, Inc.). 1996. Problem Assessment Report/Remedial Action Plan, Exxon Service Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Delta, Rancho Cordova, California. 30 May.

Delta (Delta Environmental Consultants, Inc.). 1997. Soil Sampling Results from Used Oil Tank Removal and Product Distribution Upgrade, Exxon Service Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Letter to Exxon Company, U.S.A., Concord, California. Delta, Rancho Cordova, California. 17 June.

Delta (Delta Environmental Consultants, Inc.). 1999. Second Quarter 1999 Ground Water Monitoring and Remediation System Status Report and Supplemental Third Quarter 1999 Sampling Report, Exxon Service Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Delta, Rancho Cordova, California. 13 September.

DWR (California Department of Water Resources). 1974. Evaluation of Groundwater Resources, Livermore and Sunol Valleys. Bulletin No. 118-2. June.

ETIC (ETIC Engineering, Inc.). 2000a. Work Plan for Well Installation, Exxon Retail Site 7-3399, 2991 Hopyard Road, Pleasanton, California. ETIC, Walnut Creek, California. May.

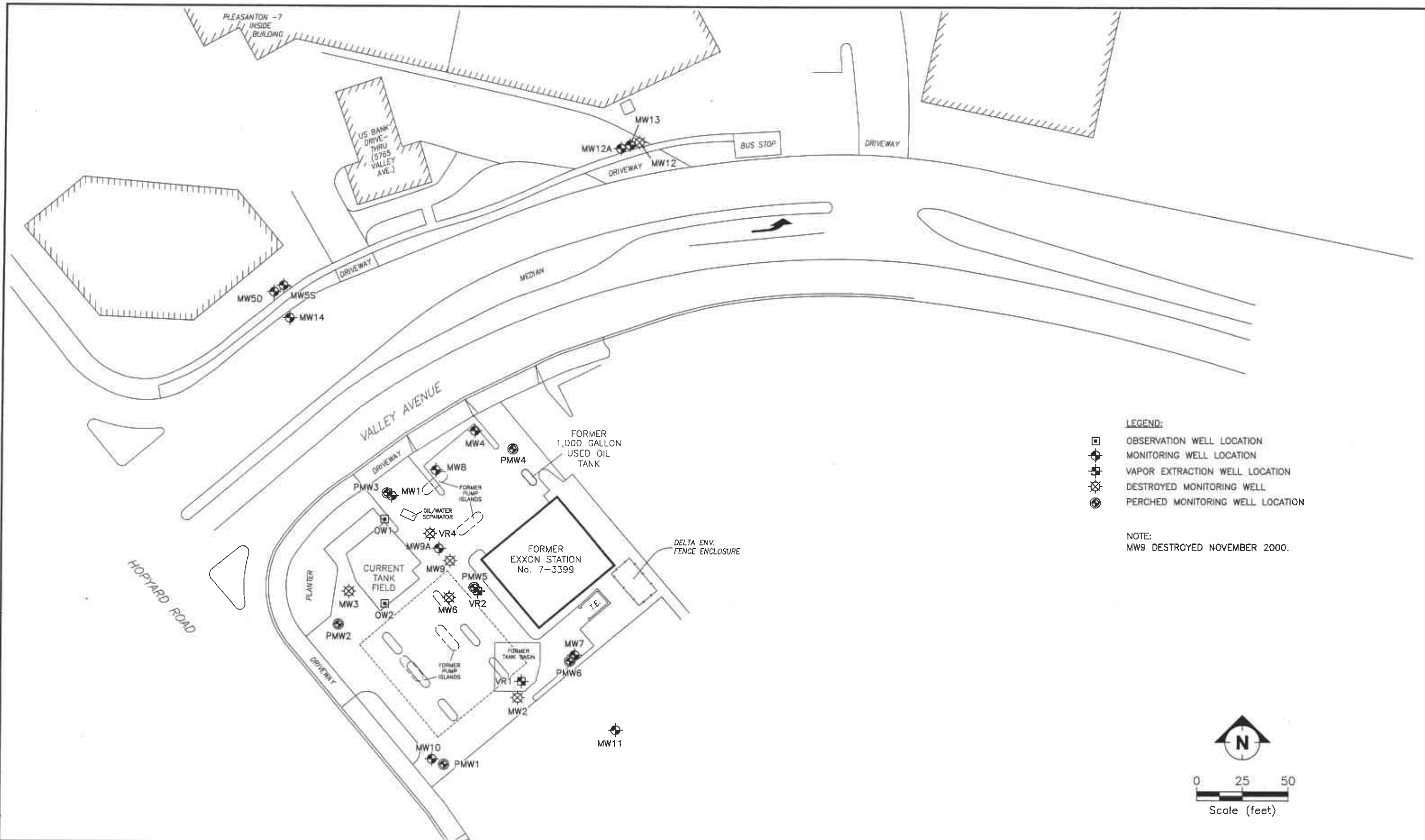
ETIC (ETIC Engineering, Inc.). 2000b. Addendum to Work Plan for Well Installation, Exxon Retail Site 7-3399, 2991 Hopyard Road, Pleasanton, California. ETIC, Walnut Creek, California. August.

ETIC (ETIC Engineering, Inc.). 2000c. Report of Groundwater Monitoring, Third Quarter 2000, Exxon Retail Site 7-3399, 2991 Hopyard Road, Pleasanton, California. ETIC, Walnut Creek, California. December.

ETIC (ETIC Engineering, Inc.). 2000d. Work Plan for Well Replacement, Former Exxon Retail Site 7-3399, 2991 Hopyard Road, Pleasanton, California. ETIC, Walnut Creek, California. October.

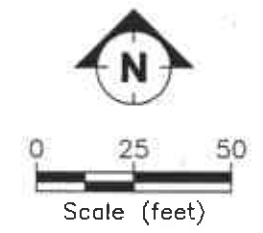
ETIC (ETIC Engineering, Inc.). 2000e. Letter to the ACHA, Former Exxon Retail Site 7-3399, 2991 Hopyard Road, Pleasanton, California. ETIC, Walnut Creek, California. 13 December.

RWQCB (California Regional Water Quality Control Board). 1990. Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites. RWQCB, Oakland, California.



- LEGEND:**
- OBSERVATION WELL LOCATION
 - ⊕ MONITORING WELL LOCATION
 - ⊕ VAPOR EXTRACTION WELL LOCATION
 - ⊗ DESTROYED MONITORING WELL
 - ⊕ PERCHED MONITORING WELL LOCATION

NOTE:
MW9 DESTROYED NOVEMBER 2000.

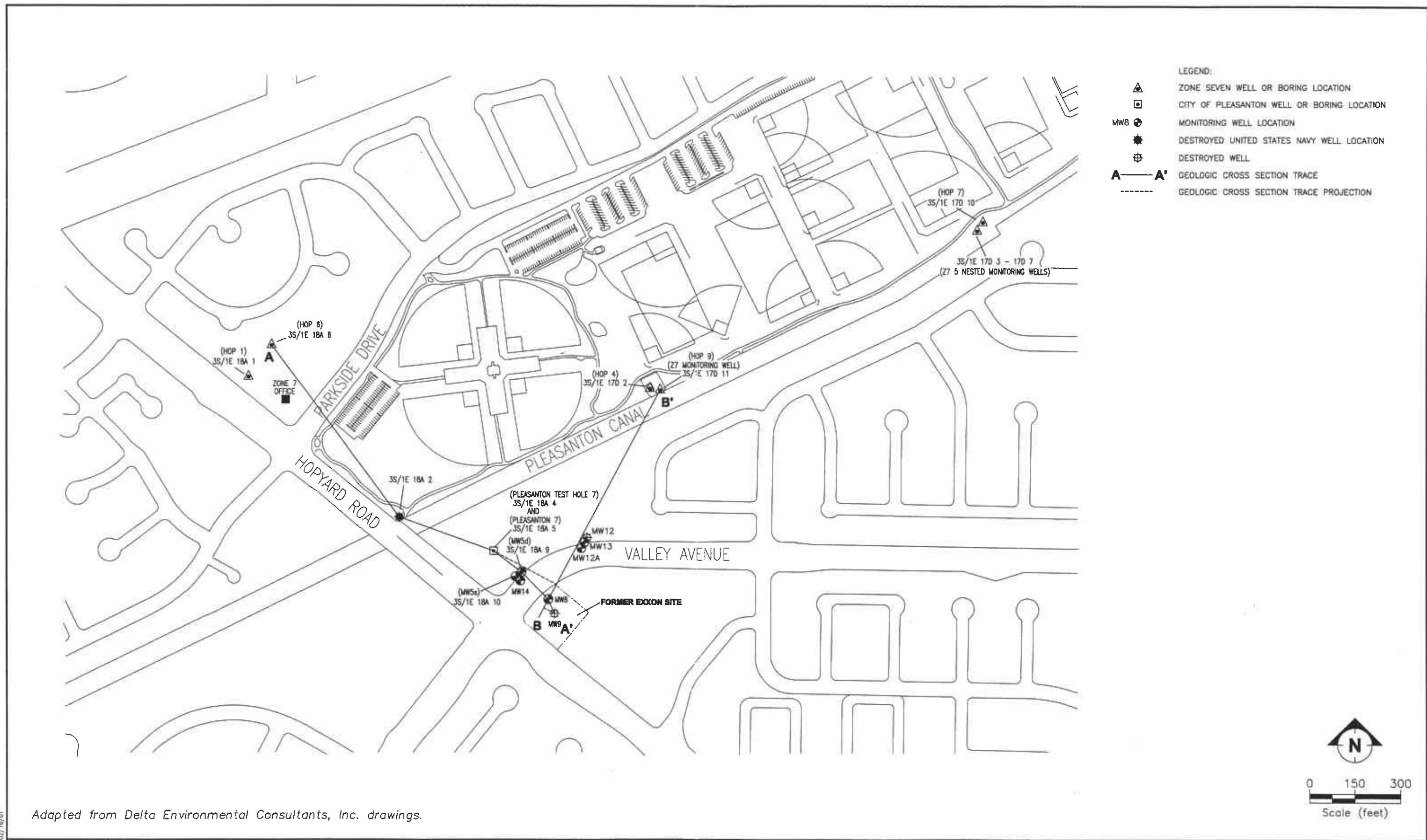


FILENAME: SITE001.DWG 02/07/01



SITE PLAN
FORMER EXXON RS 7-3399
 2991 HOPYARD ROAD,
 PLEASANTON, CALIFORNIA

FIGURE:
1



- LEGEND:
- ▲ ZONE SEVEN WELL OR BORING LOCATION
 - CITY OF PLEASANTON WELL OR BORING LOCATION
 - MWB ● MONITORING WELL LOCATION
 - ✱ DESTROYED UNITED STATES NAVY WELL LOCATION
 - ⊕ DESTROYED WELL
 - A—A' GEOLOGIC CROSS SECTION TRACE
 - GEOLOGIC CROSS SECTION TRACE PROJECTION

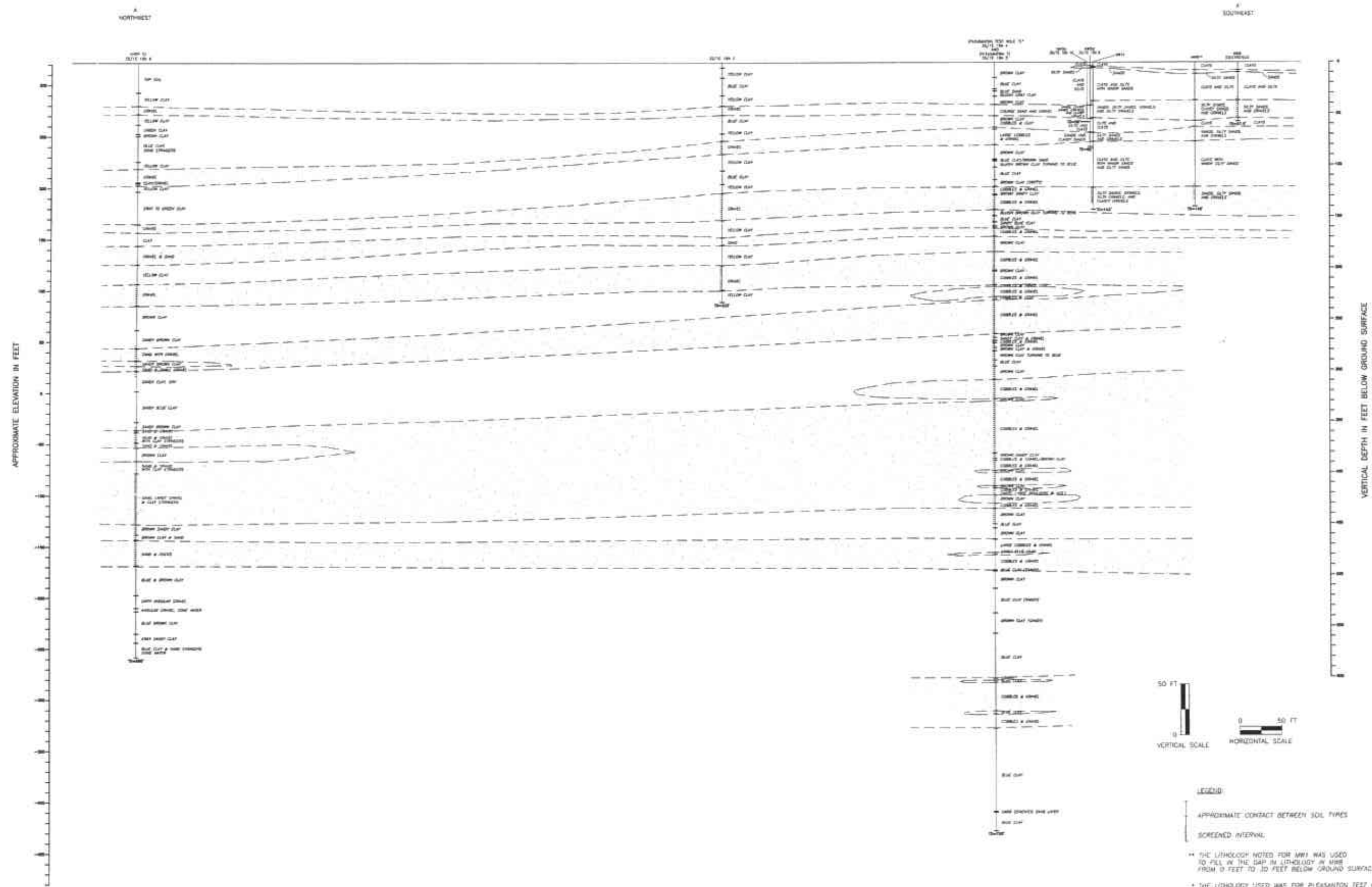
Adapted from Delta Environmental Consultants, Inc. drawings.

FILENAME: FIG2.DWG 02/16/01



GEOLOGIC CROSS-SECTION TRACE LOCATION MAP
 FORMER EXXON RS 7-3399
 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

FIGURE:
2



Adapted from Delta Environmental Consultants, Inc. drawings.

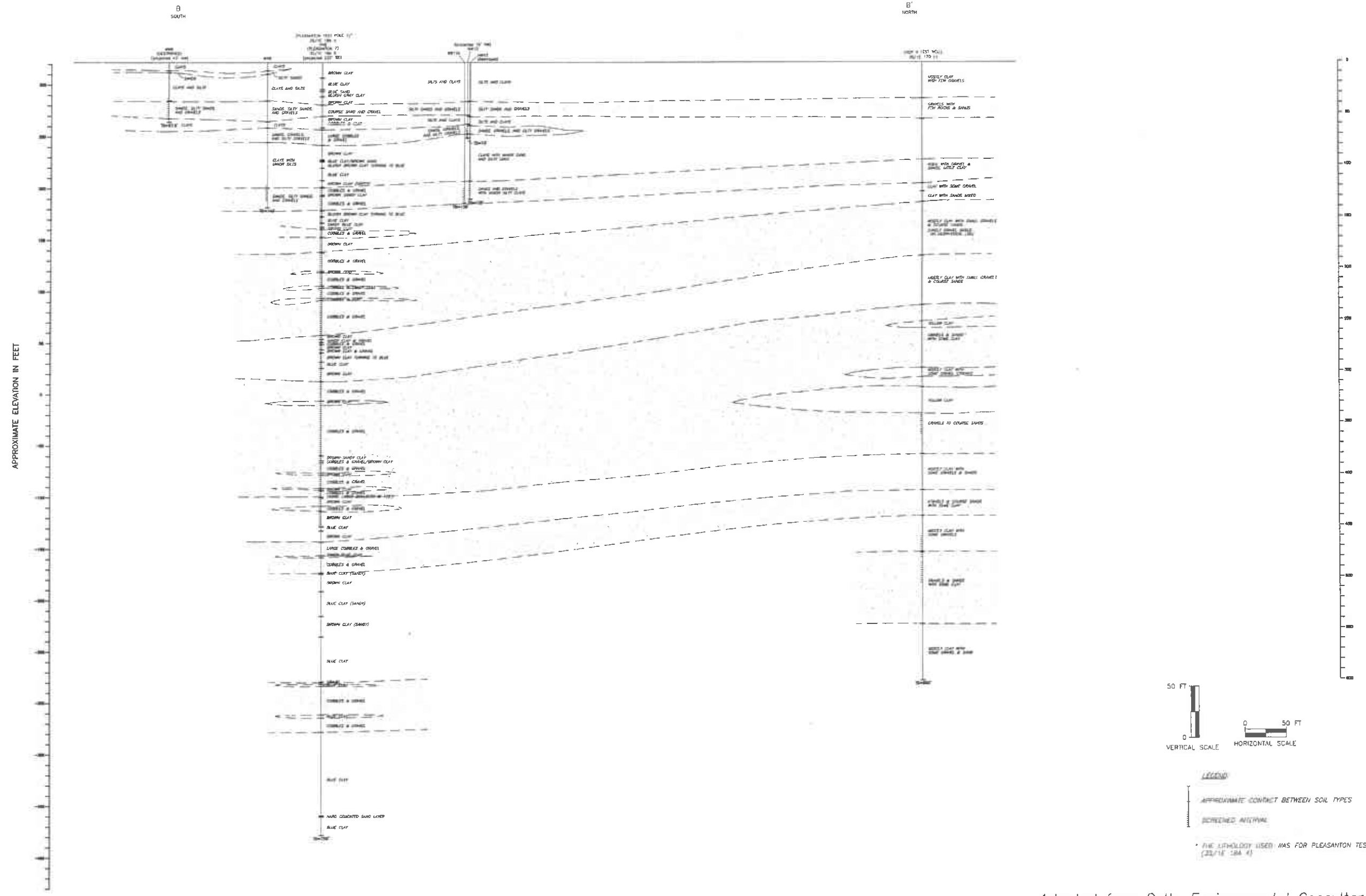
14119406C TCSA.DWG 02/16/01



GEOLOGIC CROSS-SECTION A-A'
 FORMER EXXON RS 7-3399
 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

FIGURE:

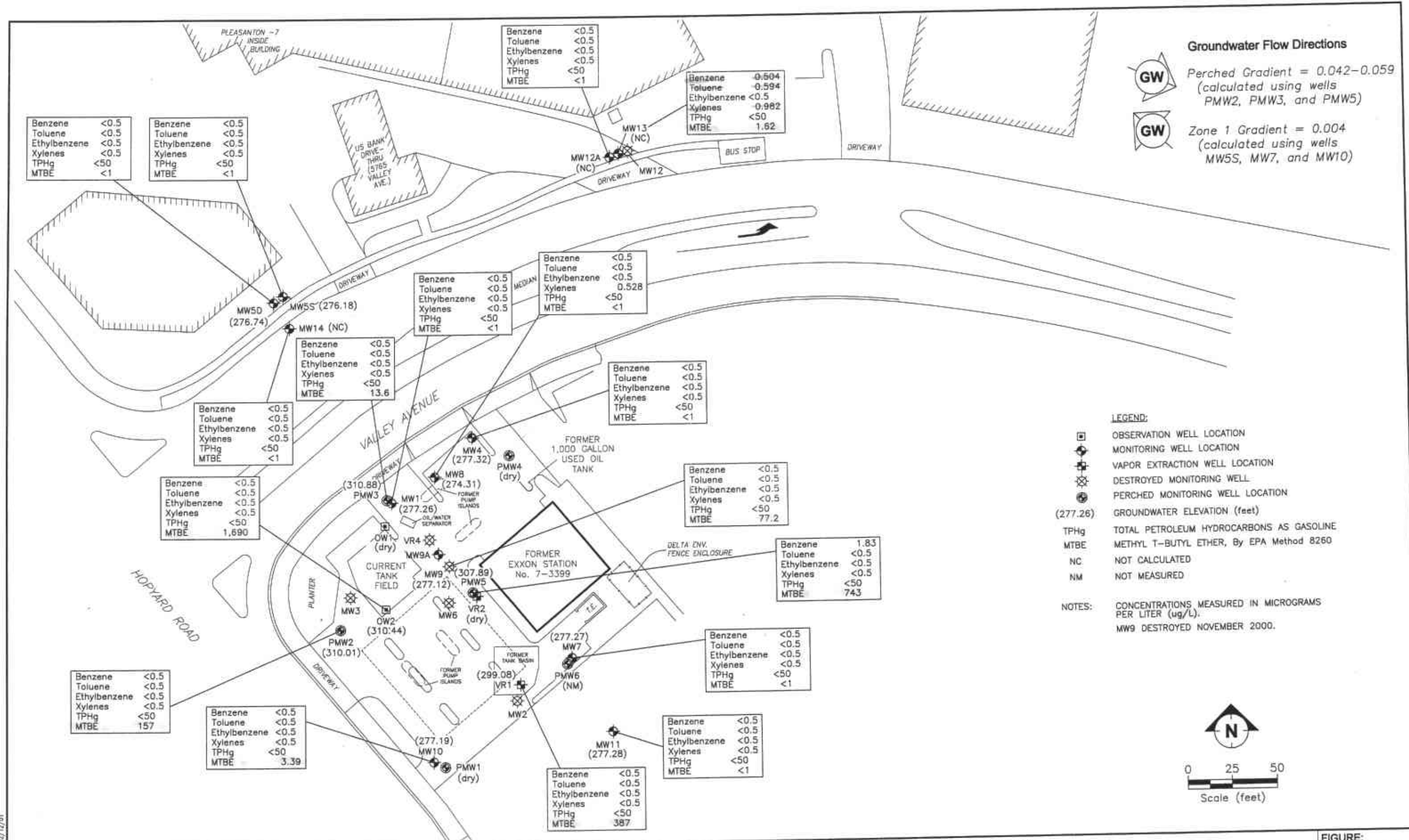
3



Adapted from Delta Environmental Consultants, Inc. drawings.

GEOLOGIC CROSS-SECTION B-B'
FORMER EXXON RS 7-3399
2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

FIGURE:
4



SITE PLAN SHOWING GROUNDWATER ELEVATIONS AND GROUNDWATER SAMPLE ANALYTICAL RESULTS
 FORMER EXXON RS 7-3399
 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA
 26 SEPTEMBER 2000

TABLE 1 CONSTRUCTION DETAILS FOR WELLS, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well No.	Date Installed	Elevation TOC* (ft)	Casing Material	Total Depth (ft bgs)	Well Depth (ft bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material	Status
MW1	04/01/88	320.52	--	57	57	--	4	32-57	0.020	30-57	--	Active
MW2 ^a	04/02/88	NM	--	57	57	--	4	37-57	0.020	34-57	--	Destroyed
MW3 ^b	04/04/88	NM	--	60	56	--	4	36-56	0.020	35-60	--	Destroyed
MW4	04/06/88	321.56	--	60	57	--	4	37-57	0.020	36-60	--	Active
MW5D	05/10/88	321.79	--	82.0	77.5	--	4	67.5-77.5	0.020	64-77.5	--	Active
MW5S	05/11/88	320.52	--	58	55	--	4	40-55	0.020	37.5-38	--	Active
MW6 ^c	05/11/88	NM	--	59	55	--	4	40-55	0.020	36-59	--	Destroyed
MW7	07/12/88	321.27	--	56.5	53	--	5	28-53	0.020	25-56.5	--	Active
MW8	09/30/89	321.86	PVC	140	133	14	4	118-133	0.020	114-133	--	Active
MW9	10/04/89	320.26	PVC	57.5	54.5	10	4	34.5-54.5	0.020	34-54.5	--	Active
MW10	10/06/89	322.99	PVC	60.5	60	10	4	40-60	0.020	38-60	--	Active
MW-11	11/02/89	321.73	PVC	55.5	55	10	4	35-55	0.020	33-55	--	Active
MW12 ^e	08/17/00	NM	PVC	132	131.5	8.33	2	114.5-131.5	0.020	112.5-132	#3 Sand	Destroyed
MW12A	08/30/00	NM	PVC	136	130.5	8.33	2	115.5-130.5	0.020	113.5-130.5	#3 Sand	Active
MW13	08/23/00	NM	PVC and Steel ^f	73	72	8.33	2	61.5-72	0.020	57.5-73	#3 Sand	Active
MW14	08/29/00	NM	PVC	143	136	8.33	2	121.5-136.5	0.020	119.5-143	#3 Sand	Active
VR1	10/24/88	321.00	PVC	30	30	10	4	10-30	0.020	10-30	--	Active
VR2	11/20/89	320.18	PVC	45.5	45	8	2	35-45	0.020	33-45.5	--	Active
VR3 ^d	11/20/89	318.73	PVC	35.5	35	8	2	5-35	0.020	4-35.5	--	Destroyed

TABLE 1 CONSTRUCTION DETAILS FOR WELLS, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well No.	Date Installed	Elevation TOC* (ft)	Casing Material	Total Depth (ft bgs)	Well Depth (ft bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material	Status
VR4 ^d	11/24/89	321.19	PVC	35.5	32.5	8	2	12.5-32.5	0.020	4-35.5	--	Destroyed
OW1	--	322.45	--	--	--	--	4	--	--	--	--	Active
OW2	--	321.55	--	--	--	--	4	--	--	--	--	Active
PMW1	12/16/99	322.75	PVC	16	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active
PMW2	12/16/99	322.37	PVC	16	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active
PMW3	12/16/99	321.27	PVC	16	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active
PMW4	12/16/99	321.37	PVC	16	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active
PMW5	12/16/99	320.04	PVC	35.5	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active
PMW6	12/17/99	321.38	PVC	16	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active

TOC Top of casing.
 * Measured from notch/mark on north edge of well casing.
 ft bgs Feet below ground surface.
 NM Not measured.
 -- Information not available.
 a Destroyed July 12, 1988.
 b Destroyed August 29, 1988.
 c Destroyed October 24 1988.
 d Destroyed November 5, 1999.
 e Destroyed August 30, 2000.
 f PVC screen from 61.5-72, stainless steel blank from 11.5-61.5, PVC blank from surface to 11.5.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW1	04/02/88	321.44	NM	NC	NM	<0.5	1.7	<0.5	<0.5	<20	NA
	04/06/88		36.34	285.10	0.00	NS	NS	NS	NS	NS	NS
	04/08/88		36.29	285.15	0.00	NS	NS	NS	NS	NS	NS
	04/19/88		36.36	285.08	0.00	NS	NS	NS	NS	NS	NS
	06/06/88		38.16	283.28	0.00	NS	NS	NS	NS	NS	NS
	06/23/88		38.71	282.73	0.00	NS	NS	NS	NS	NS	NS
	06/28/88		39.16	282.28	0.00	NS	NS	NS	NS	NS	NS
	07/06/88		39.73	281.71	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/13/88		40.22	281.22	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/12/88		NM	NC	NM	NS	NS	NS	NS	NS	NS
	08/26/88		41.90	279.54	0.00	NS	NS	NS	NS	NS	NS
	09/07/88		42.27	279.17	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	12/07/88		43.94	277.50	0.00	NS	NS	NS	NS	NS	NS
	12/19/88		43.70	277.74	0.00	NS	NS	NS	NS	NS	NS
	02/09/89		42.53	278.91	0.00	NS	NS	NS	NS	NS	NS
	03/03/89		NM	NC	NM	1.6	<0.5	<0.5	<0.5	<20	NA
	03/08/89		41.96	279.48	0.00	NS	NS	NS	NS	NS	NS
	04/03/89		41.59	279.85	0.00	NS	NS	NS	NS	NS	NS
	04/26/89		41.67	279.77	0.00	NS	NS	NS	NS	NS	NS
	06/30/89		43.79	277.65	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/17/89		44.74	276.70	0.00	<0.5	<0.5	<0.5	<0.5	23	NA
	07/18/89		44.76	276.68	0.00	NS	NS	NS	NS	NS	NS
	07/19/89		44.82	276.62	0.00	NS	NS	NS	NS	NS	NS
	07/20/89		44.85	276.59	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/21/89		44.95	276.49	0.00	NS	NS	NS	NS	NS	NS
	07/26/89		45.42	276.02	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/02/89		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/03/89		46.18	275.26	0.00	NS	NS	NS	NS	NS	NS
	08/17/89		47.12	274.32	0.00	NS	NS	NS	NS	NS	NS
	09/13/89		49.08	272.36	0.00	39	0.6	<0.5	5.1	220	NA
	11/28/89		50.21	271.23	0.00	NS	NS	NS	NS	NS	NS
	12/20/89		NM	NC	NM	56	0.72	<0.5	0.71	220	NA
	01/09/90		49.31	272.13	0.00	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW1	01/25/90	321.44	NM	NC	NM	18	1.6	<0.5	1.8	57	NA
	01/26/90		49.29	272.15	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		49.02 ^a	272.42	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		49.02	272.42	0.00	NS	NS	NS	NS	NS	NS
	02/27/90		NM	NC	NM	3.2	2.3	<0.5	3.2	55	NA
	03/26/90		48.71 ^a	272.73	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	03/26/90		48.70	272.74	0.00	NS	NS	NS	NS	NS	NS
	04/18/90		48.79	272.65	0.00	1.1	1.6	<0.5	3.1	25	NA
	05/17/90		49.40	272.04	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	06/11/90		50.83	270.61	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/30/90		52.17	269.27	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/27/90		53.44	268.00	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	09/28/90		53.40	268.04	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	12/27/90		NM	NC	NM	NS	NS	NS	NS	NS	NS
	03/20/91		53.35	268.09	0.00	NS	NS	NS	NS	NS	NS
	06/20/91		53.55	267.89	0.00	NS	NS	NS	NS	NS	NS
	09/12/91		NM	NC	NM	NS	NS	NS	NS	NS	NS
	12/30/91		NM	NC	NM	NS	NS	NS	NS	NS	NS
	01/30/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	02/16/93		NM	NC	NM	NS	NS	NS	NS	NS	NS
	03/02/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	03/24/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	04/14/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	05/21/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	06/08/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	07/14/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	08/10/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	09/16/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	10/07/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	11/09/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	12/10/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	01/26/93		NM	NC	NM	NS	NS	NS	NS	NS	NS
	02/16/93		NM	NC	NM	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW1	03/11/93	321.44	53.09	268.35	0.00	NS	NS	NS	NS	NS	NS
	04/12/93		53.32	268.12	0.00	NS	NS	NS	NS	NS	NS
	06/01/93		53.40	268.04	0.00	NS	NS	NS	NS	NS	NS
	07/15/93		59.80	261.64	0.00	NS	NS	NS	NS	NS	NS
	08/15/93		53.45	267.99	0.00	NS	NS	NS	NS	NS	NS
	09/29/93		53.43	268.01	0.00	NS	NS	NS	NS	NS	NS
	09/30/93		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	10/28/93		53.38	268.06	0.00	NS	NS	NS	NS	NS	NS
	11/23/93		53.46	267.98	0.00	NS	NS	NS	NS	NS	NS
	11/24/93		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/10-11/94		53.46	267.98	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/04-05/94		53.34	268.10	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/01/94 ^e		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/16/94		52.09	269.35	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/15/95		49.41	272.03	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/09/95		39.97	281.47	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/21/95		40.68	280.76	0.00	<0.5	0.83	<0.5	<0.5	<50	<2.5
	11/30/95		38.99	282.45	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	03/28/96		35.70	285.74	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	05/31/96		34.17	287.27	0.00	<0.5	<0.5	<0.5	<0.5	52	<5.0
	08/28/96		38.37	283.07	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	11/18/96		38.40	283.04	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	02/28/97		33.29	288.15	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	05/23/97		33.63	287.91	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	09/23/97		38.05	283.39	0.00	<0.5	<0.5	<0.5	<0.5	<50	29
	12/30/97		36.74	284.70	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/24/98		31.65	289.79	0.00	1.4	2.5	<0.5	1.4	<50	16
	06/15/98		29.28	292.16	0.00	<0.5	<0.5	<0.5	<0.5	<50	22
	09/11/98		34.94	286.50	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	12/09/98		31.14	290.30	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.0 ^f
	03/31/99		28.10	293.34	0.00	<0.5	<0.5	<0.5	<0.5	<50	124/131 ^g
	06/30/99		33.94	287.50	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	08/03/99		37.94	283.50	0.00	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW1	09/24/99	320.52	44.92	275.60	0.00	<0.5	<0.5	<0.5	<0.5	<50	<0.5 ^f
	12/22/99		9.93	310.59	0.00	1.9	1.4	1.5	7.3	<50	990 ^f
	01/21/00		39.35	281.17	0.00	<1.0	<1.0	<1.0	<1.0	<50	<5.0 ^f
	04/04/00		34.70	285.82	0.00	<1	<1	<1	<1	<50	<1
	06/28/00		39.72	280.80	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
	09/26/00		43.26	277.26	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
MW2	04/02/88	NM	NM	NC	0.25	NS	NS	NS	NS	NS	NS
	04/04/88		NM	NC	1.5	NS	NS	NS	NS	NS	NS
	04/05/88		NM	NC	1.5	NS	NS	NS	NS	NS	NS
	04/06/88		39.31	NC	3.2	NS	NS	NS	NS	NS	NS
	04/08/88		NM	NC	NM	NS	NS	NS	NS	NS	NS
	04/19/88		38.90	NC	2.48	NS	NS	NS	NS	NS	NS
	06/06/88		38.78	NC	0.26	NS	NS	NS	NS	NS	NS
	06/23/88		39.23	NC	0.13	NS	NS	NS	NS	NS	NS
	06/28/88		39.72	NC	NM	NS	NS	NS	NS	NS	NS
	07/06/88		40.31	NC	Slight sheen	25,700	18,500	2,900	21,400	62,000	NA
	07/12/88		Well destroyed								
MW3	04/06/88	NM	37.19	NC	0.00	<0.5	<0.5	<0.5	<0.5	20	NA
	04/08/88		37.14	NC	0.00	NS	NS	NS	NS	NS	NS
	04/19/88		37.22	NC	0.00	NS	NS	NS	NS	NS	NS
	06/06/88		39.02	NC	0.00	NS	NS	NS	NS	NS	NS
	06/23/88		39.58	NC	0.00	NS	NS	NS	NS	NS	NS
	06/28/88		40.04	NC	0.00	NS	NS	NS	NS	NS	NS
	07/06/88		40.60	NC	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/13/88		41.09	NC	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/12/88		NM	NC	NM	NS	NS	NS	NS	NS	NS
	08/26/88		42.77	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/29/88		Well destroyed								
MW4	04/08/88	321.56	36.41	285.15	0.00	NS	NS	NS	NS	NS	NS
	04/11/88		NM	NC	NM	1.8	16.3	0.6	7.1	80	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW4	04/19/88	321.56	36.51	285.05	0.00	NS	NS	NS	NS	NS	NS
	06/06/88		38.26	283.30	0.00	NS	NS	NS	NS	NS	NS
	06/23/88		38.83	282.73	0.00	NS	NS	NS	NS	NS	NS
	06/28/88		39.28	282.28	0.00	NS	NS	NS	NS	NS	NS
	07/06/88		39.85	281.71	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/13/88		40.31	281.25	0.00	<0.5	0.9	<0.5	<0.5	<20	NA
	08/12/88		NM	NC	NM	NS	NS	NS	NS	NS	NS
	08/26/88		42.01	279.55	0.00	NS	NS	NS	NS	NS	NS
	09/07/88		NM	NC	NM	NS	NS	NS	NS	NS	NS
	12/07/88		NM	NC	NM	NS	NS	NS	NS	NS	NS
	12/19/88		43.83	277.73	0.00	NS	NS	NS	NS	NS	NS
	02/09/89		42.67	278.89	0.00	NS	NS	NS	NS	NS	NS
	03/08/89		42.11	279.45	0.00	3.8	1.0	<0.5	<0.5	440	NA
	04/03/89		41.73	279.83	0.00	NS	NS	NS	NS	NS	NS
	04/26/89		41.79	279.77	0.00	NS	NS	NS	NS	NS	NS
	06/30/89		43.88	277.68	0.00	<0.5	<0.5	<0.5	<0.5	100	NA
	07/17/89		44.85	276.71	0.00	<0.5	<0.5	<0.5	<0.5	390	NA
	07/18/89		44.88	276.68	0.00	NS	NS	NS	NS	NS	NS
	07/19/89		44.92	276.64	0.00	NS	NS	NS	NS	NS	NS
	07/20/89		44.98	276.58	0.00	<0.5	<0.5	<0.5	<0.5	200	NA
	07/21/89		45.04	276.52	0.00	NS	NS	NS	NS	NS	NS
	07/26/89		45.50	276.06	0.00	<0.5	<0.5	<0.5	<0.5	66	NA
	08/02/89		NM	NC	NM	NS	NS	NS	NS	NS	NS
	08/03/89		46.28	275.28	0.00	NS	NS	NS	NS	NS	NS
	08/17/89		47.22	274.34	0.00	NS	NS	NS	NS	NS	NS
	09/13/89		49.19	272.37	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	11/28/89		50.34	271.22	0.00	NS	NS	NS	NS	NS	NS
	12/20/89		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	01/09/90		49.47	272.09	0.00	NS	NS	NS	NS	NS	NS
	01/26/90		49.36	272.20	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		49.18 ^a	272.38	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		49.15	272.41	0.00	NS	NS	NS	NS	NS	NS
	03/26/90		48.84 ^a	272.72	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW4	03/26/90	321.56	48.83	272.73	0.00	NS	NS	NS	NS	NS	NS
	04/18/90		48.90	272.66	0.00	NS	NS	NS	NS	NS	NS
	05/17/90		50.03	271.53	0.00	NS	NS	NS	NS	NS	NS
	06/11/90		50.98	270.58	0.00	NS	NS	NS	NS	NS	NS
	07/30/90		53.57	267.99	0.00	NS	NS	NS	NS	NS	NS
	08/01/90		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/27/90		53.61	267.95	0.00	NS	NS	NS	NS	NS	NS
	09/28/90		53.57	267.99	0.00	NS	NS	NS	NS	NS	NS
	12/27/90		53.68	267.88	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/20/91		53.56	268.00	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	06/20/91		53.75	267.81	0.00	NS	NS	NS	NS	NS	NS
	09/12/91		53.70	267.86	0.00	NS	NS	NS	NS	NS	NS
	12/30/91		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	01/30/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	03/02/92		53.83	267.73	0.00	NS	NS	NS	NS	NS	NS
	03/24/92		53.73	267.83	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	04/14/92		53.76	267.80	0.00	NS	NS	NS	NS	NS	NS
	05/21/92		54.73	266.83	0.00	NS	NS	NS	NS	NS	NS
	06/08/92		53.80	267.76	0.00	NS	NS	NS	NS	NS	NS
	07/14/92		53.60	267.96	0.00	NS	NS	NS	NS	NS	NS
	08/10/92		53.71	267.85	0.00	NS	NS	NS	NS	NS	NS
	09/16/92		53.89	267.67	0.00	NS	NS	NS	NS	NS	NS
	10/07/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	11/09/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	12/10/92		53.83	267.73	0.00	57	34	11	200	600	NA
	01/26/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	02/16/93		53.64	267.92	0.00	NS	NS	NS	NS	NS	NS
	03/11/93		53.54	268.02	0.00	NS	NS	NS	NS	NS	NS
	04/12/93		53.62	267.94	0.00	20	10	22	80	360	NA
	06/01/93		53.52	268.04	0.00	NS	NS	NS	NS	NS	NS
	07/15/93		53.80	267.76	0.00	NS	NS	NS	NS	NS	NS
	08/15/93		53.65	267.91	0.00	NS	NS	NS	NS	NS	NS
	09/29/93		54.23	267.33	0.00	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW4	09/30/93	321.56	NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	10/28/93		53.54	268.25	0.00	NS	NS	NS	NS	NS	NS
	11/23/93		53.57	267.99	0.00	NS	NS	NS	NS	NS	NS
	11/24/93		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/10-11/94		53.64	267.92	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/04-05/94		53.54	268.02	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/01/94 ^e		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/16/94		52.96	268.60	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/15/95		50.37	271.19	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/09/95		44.86	276.70	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/21/95		41.71	279.85	0.00	<0.5	<0.5	<0.5	<0.5	<50	2.6
	11/30/95		39.95	281.61	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	03/28/96		36.76	284.80	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	05/31/96		35.19	286.37	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	08/28/96		39.39	282.17	0.00	NS	NS	NS	NS	NS	NS
	11/18/96		39.42	282.14	0.00	NS	NS	NS	NS	NS	NS
	02/28/97		34.38	287.18	0.00	NS	NS	NS	NS	NS	NS
	05/23/97		34.66	286.90	0.00	NS	NS	NS	NS	NS	NS
	09/23/97		39.05	282.51	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	12/30/97		37.78	283.78	0.00	NS	NS	NS	NS	NS	NS
	03/24/98		NM	NC	NM	NS	NS	NS	NS	NS	NS
	06/15/98		30.32	291.24	0.00	NS	NS	NS	NS	NS	NS
	09/11/98		35.97	285.59	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	12/09/98		32.93	288.63	0.00	NS	NS	NS	NS	NS	NS
	03/31/99		29.71	291.85	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.0
	06/30/99		34.99	286.57	0.00	<0.5	<0.5	<0.5	<0.5	<50	2.65/3.12 th
	08/03/99		38.52	283.04	0.00	NS	NS	NS	NS	NS	NS
	09/24/99		42.93	278.63	0.00	<0.5	<0.5	<0.5	<0.5	<50	1.12 ^f
	12/22/99		NM	NC	NM	NS	NS	NS	NS	NS	NS
	04/04/00		NM	NC	NM	NS	NS	NS	NS	NS	NS
	06/28/00		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
	09/26/00		44.24	277.32	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW5S	05/25/88	321.64	38.46	283.18	0.00	<0.5	0.9	<0.5	<0.5	<20	NA
	06/06/88		38.86	282.78	0.00	NS	NS	NS	NS	NS	NS
	06/23/88		39.52	282.12	0.00	NS	NS	NS	NS	NS	NS
	06/28/88		39.84	281.80	0.00	NS	NS	NS	NS	NS	NS
	07/06/88		40.45	281.19	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/13/88		40.90	280.74	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/22/88		41.30	280.34	0.00	0.9	4.1	1.3	8.7	50	NA
	08/05/88		23.84 ^b	297.80	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/12/88		42.21	279.43	0.00	NS	NS	NS	NS	NS	NS
	08/26/88		42.55	279.09	0.00	NS	NS	NS	NS	NS	NS
	09/07/88		42.94	278.70	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	12/07/88		44.67	276.97	0.00	NS	NS	NS	NS	NS	NS
	02/09/89		43.19	278.45	0.00	NS	NS	NS	NS	NS	NS
	03/08/89		42.11	279.53	0.00	<0.5	<0.5	<0.5	<1.0	<20	NA
	04/26/89		41.84	279.80	0.00	NS	NS	NS	NS	NS	NS
	06/30/89		43.95	277.69	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/17/89		44.91	276.73	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/18/89		44.93	276.71	0.00	NS	NS	NS	NS	NS	NS
	07/19/89		44.98	276.66	0.00	NS	NS	NS	NS	NS	NS
	07/20/89		45.02	276.62	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/21/89		45.10	276.54	0.00	NS	NS	NS	NS	NS	NS
	07/26/89		45.57	276.07	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/02/89		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/03/89		46.31	275.33	0.00	NS	NS	NS	NS	NS	NS
	08/17/89		47.25	274.39	0.00	NS	NS	NS	NS	NS	NS
	09/13/89		49.22	272.42	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	11/28/89		50.39	271.25	0.00	NS	NS	NS	NS	NS	NS
	12/20/89		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	01/09/90		49.51	272.13	0.00	NS	NS	NS	NS	NS	NS
	01/26/90		49.40	272.24	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		49.20 ^a	272.44	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		49.20	272.44	0.00	NS	NS	NS	NS	NS	NS
	03/26/90		48.89 ^a	272.75	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW55	03/26/90	321.64	48.88	272.76	0.00	NS	NS	NS	NS	NS	NS
	04/18/90		48.95	272.69	0.00	NS	NS	NS	NS	NS	NS
	05/17/90		50.06	271.58	0.00	NS	NS	NS	NS	NS	NS
	06/11/90		50.98	270.66	0.00	NS	NS	NS	NS	NS	NS
	07/30/90		53.40	268.24	0.00	NS	NS	NS	NS	NS	NS
	08/01/90		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/27/90		53.60	268.04	0.00	NS	NS	NS	NS	NS	NS
	09/28/90		53.55	268.09	0.00	NS	NS	NS	NS	NS	NS
	12/27/90		53.61	268.03	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/20/91		53.56	268.08	0.00	NS	NS	NS	NS	NS	NS
	06/20/91		53.73	267.91	0.00	NS	NS	NS	NS	NS	NS
	09/12/91		53.78	267.86	0.00	NS	NS	NS	NS	NS	NS
	12/30/91		53.80	267.84	0.00	NS	NS	NS	NS	NS	NS
	01/30/92		53.82	267.82	0.00	NS	NS	NS	NS	NS	NS
	03/02/92		53.82	267.82	0.00	NS	NS	NS	NS	NS	NS
	04/14/92		53.74	267.90	0.00	NS	NS	NS	NS	NS	NS
	05/21/92		53.77	267.87	0.00	NS	NS	NS	NS	NS	NS
	06/08/92		53.81	267.83	0.00	NS	NS	NS	NS	NS	NS
	07/14/92		53.74	267.90	0.00	NS	NS	NS	NS	NS	NS
	08/10/92		53.78	267.86	0.00	NS	NS	NS	NS	NS	NS
	09/16/92		53.90	267.74	0.00	NS	NS	NS	NS	NS	NS
	10/07/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	11/09/92		53.87	267.77	0.00	NS	NS	NS	NS	NS	NS
	12/10/92		53.78	267.86	0.00	NS	NS	NS	NS	NS	NS
	01/26/93		53.38	268.26	0.00	NS	NS	NS	NS	NS	NS
	02/16/93		53.44	268.20	0.00	NS	NS	NS	NS	NS	NS
	03/11/93		53.28	268.36	0.00	NS	NS	NS	NS	NS	NS
	04/12/93		53.42	268.22	0.00	11	5.9	13	48	220	NA
	06/01/93		53.56	268.08	0.00	NS	NS	NS	NS	NS	NS
	07/15/93		53.00	268.64	0.00	NS	NS	NS	NS	NS	NS
	08/15/93		53.60	268.04	0.00	NS	NS	NS	NS	NS	NS
	09/29/93		53.62	268.02	0.00	NS	NS	NS	NS	NS	NS
	09/30/93		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW5S	10/28/93	321.64	54.62	267.02	0.00	NS	NS	NS	NS	NS	NS
	11/23/93		53.62	268.02	0.00	NS	NS	NS	NS	NS	NS
	03/10-11/94		53.61	268.03	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/04-05/94		53.52	268.12	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/01/94 ^e		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/16/94		53.05	268.59	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/01/94		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/16/94		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/15/95		50.55	271.09	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/09/95		44.96	276.68	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/21/95		41.77	279.87	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	11/30/95		39.95	281.69	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	03/28/96		36.80	284.84	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	05/31/96		35.28	286.36	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	08/28/96		39.46	282.18	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	11/18/96		39.47	282.17	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	02/28/97		34.44	287.20	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	05/23/97		34.72	286.92	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	09/23/97		39.09	282.55	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	12/30/97		37.83	283.81	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/24/98		32.76	288.88	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	06/15/98		30.46	291.18	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	09/11/98		36.04	285.60	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	12/09/98		33.00	288.64	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.0 ^f
	03/31/99		29.20	292.44	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.0
	06/30/99		35.08	286.56	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	08/03/99		38.62	283.02	0.00	NS	NS	NS	NS	NS	NS
	09/24/99	320.52	42.89	277.63	0.00	<0.5	<0.5	<0.5	<0.5	<50	<0.5 ^f
	12/22/99		42.05	278.47	0.00	<1.0	<1.0	<1.0	<1.0	<50	<5.0 ^f
	04/04/00		35.91	284.61	0.00	<1	<1	<1	<1	<50	<1
	06/28/00		40.75	279.77	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
	09/26/00		44.34	276.18	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW5D	05/25/88	321.79	38.55	283.24	0.00	<0.5	3.1	<0.5	<0.5	<20	NA
	06/06/88		38.90	282.89	0.00	NS	NS	NS	NS	NS	NS
	06/23/88		39.56	282.23	0.00	NS	NS	NS	NS	NS	NS
	06/28/88		40.23	281.56	0.00	NS	NS	NS	NS	NS	NS
	07/06/88		40.69	281.10	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/13/88		41.22	280.57	0.00	<0.5	<0.5	<0.5	<0.5	40	NA
	08/12/88		42.34	279.45	0.00	NS	NS	NS	NS	NS	NS
	08/26/88		42.60	279.19	0.00	NS	NS	NS	NS	NS	NS
	09/07/88		42.99	278.80	0.00	NS	NS	NS	NS	NS	NS
	12/07/88		44.58	277.21	0.00	NS	NS	NS	NS	NS	NS
	02/09/89 ^c		NM	NC	NM	NS	NS	NS	NS	NS	NS
	03/08/89 ^d		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	03/08/89		42.49	279.30	0.00	NS	NS	NS	NS	NS	NS
	04/03/89		42.21	279.58	0.00	NS	NS	NS	NS	NS	NS
	04/26/89		42.36	279.43	0.00	NS	NS	NS	NS	NS	NS
	06/30/89		44.79	277.00	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/17/89		45.73	276.06	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/18/89		45.75	276.04	0.00	NS	NS	NS	NS	NS	NS
	07/19/89		44.89	276.90	0.00	NS	NS	NS	NS	NS	NS
	07/20/89		46.02	275.77	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	07/21/89		46.18	275.61	0.00	NS	NS	NS	NS	NS	NS
	07/26/89		46.83	274.96	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/02/89		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/03/89		47.67	274.12	0.00	NS	NS	NS	NS	NS	NS
	08/17/89		48.27	273.52	0.00	NS	NS	NS	NS	NS	NS
	09/13/89		50.60	271.19	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	11/28/89		51.16	270.63	0.00	NS	NS	NS	NS	NS	NS
	12/20/89		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	01/09/90		50.42	271.37	0.00	NS	NS	NS	NS	NS	NS
	01/26/90		50.10	271.69	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		50.08	271.71	0.00	NS	NS	NS	NS	NS	NS
	03/26/90		49.80 ^f	271.99	0.00	NS	NS	NS	NS	NS	NS
	03/26/90		49.77	272.02	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW5D	04/18/90	321.79	49.80	271.99	0.00	NS	NS	NS	NS	NS	NS
	05/17/90		51.32	270.47	0.00	NS	NS	NS	NS	NS	NS
	06/11/90		52.10	269.69	0.00	NS	NS	NS	NS	NS	NS
	07/30/90		53.47	268.32	0.00	NS	NS	NS	NS	NS	NS
	08/01/90		NM	NM	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/27/90		58.24	263.55	0.00	NS	NS	NS	NS	NS	NS
	09/29/90		60.70	261.09	0.00	NS	NS	NS	NS	NS	NS
	12/27/90		62.52	259.27	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/20/91		59.18	262.61	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	06/20/91		65.02	256.77	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/12/91		DRY	DRY	NM	NS	NS	NS	NS	NS	NS
	12/30/91		DRY	DRY	NM	NS	NS	NS	NS	NS	NS
	01/30/92		DRY	DRY	NM	NS	NS	NS	NS	NS	NS
	03/02/92		DRY	DRY	NM	NS	NS	NS	NS	NS	NS
	03/24/92		74.98	246.81	0.00	NS	NS	NS	NS	NS	NS
	04/14/92		74.42	247.37	0.00	NS	NS	NS	NS	NS	NS
	05/21/92		75.67	246.12	0.00	NS	NS	NS	NS	NS	NS
	06/08/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	07/14/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	08/10/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	09/16/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	10/07/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	11/09/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	12/10/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	01/26/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	02/16/93		76.47	245.32	0.00	NS	NS	NS	NS	NS	NS
	03/11/93		74.03	247.76	0.00	NS	NS	NS	NS	NS	NS
	04/12/93		70.96	250.83	0.00	1.0	1.0	2.5	7.4	<50	NA
	06/01/93		67.64	254.15	0.00	NS	NS	NS	NS	NS	NS
	07/15/93		54.40	267.39	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/15/93		67.85	253.94	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/29/93		67.62	254.17	0.00	NS	NS	NS	NS	NS	NS
	09/30/93		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW5D	10/28/93	321.79	66.15	255.49	0.00	NS	NS	NS	NS	NS	NS
	11/23/93		64.80	256.84	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/10-11/94		59.10	262.69	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/04-05/94		55.66	265.13	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/01/94 ^e		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/16/94		54.36	268.74	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/15/95		51.20	270.59	0.00	NS	NS	NS	NS	NS	NS
	05/09/95		45.49	276.30	0.00	NS	NS	NS	NS	NS	NS
	05/12/95		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/21/95		42.35	279.44	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	11/30/95		43.60	278.19	0.00	5.4	10	1.4	12	77	<5.0
	03/28/96		37.12	284.67	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	05/31/96		35.67	286.12	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	08/28/96		40.22	281.57	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	11/18/96		39.89	281.90	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	02/28/97		34.75	287.04	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Duplicate	02/28/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Rinseate	02/28/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	05/23/97		35.21	286.58	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Duplicate	05/23/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Rinseate	05/23/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	09/23/97		39.58	282.21	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Duplicate	09/23/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Rinseate	09/23/97		NM	NC	NM	<0.5	1.5	<0.5	<0.5	<50	3.0
	12/30/97		38.30	283.49	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
Duplicate	12/30/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
Rinseate	12/30/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/24/98		32.77	289.02	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	06/15/98		30.69	291.10	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Duplicate	06/15/98		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	09/11/98		36.68	285.11	0.00	<0.5	<0.5	<0.5	<0.5	<50	33
Duplicate	09/11/98		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	35
	10/28/98		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.0 ^f

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW5D	12/09/98	321.79	32.70	289.09	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.0 ^f
Duplicate	12/09/98		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.0 ^f
Rinseate	12/09/98		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.0 ^f
	03/31/99		28.91	292.88	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.0
Duplicate	03/31/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.0
	06/30/99		35.90	289.89	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Duplicate	06/30/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	3.3/<0.5 ^{fb}
Rinseate	06/30/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	08/03/99		40.39	281.40	0.00	<0.5	<0.5	<0.5	<0.5	<50	<0.5 ^f
Duplicate	08/03/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<0.5 ^f
	09/24/99		44.25	277.54	0.00	<0.5	<0.5	<0.5	<0.5	<50	<0.5 ^f
Duplicate	09/24/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<0.5 ^f
Rinseate	09/24/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<0.5 ^f
	12/22/99		38.51	283.28	0.00	<1.0	<1.0	<1.0	<1.0	<50	<5.0 ^f
Duplicate	12/22/99		NM	NC	NM	<1.0	<1.0	<1.0	<1.0	<50	<5.0 ^f
	04/04/00		30.05	291.74	0.00	<1	<1	<1	<1	<50	<1
	06/28/00		42.00	279.79	0.00	<0.5	<0.5	<0.5	<0.5	<50	1.47 ^f
	09/26/00		45.05	276.74	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
MW6	05/11/88	NM	37.31	NC	0.00	NS	NS	NS	NS	NS	NS
	05/17/88		NM	NM	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	06/06/88		38.70	NC	0.00	NS	NS	NS	NS	NS	NS
	06/23/88		39.23	NC	0.00	NS	NS	NS	NS	NS	NS
	06/28/88		39.74	NC	0.00	31.8	7.5	5.4	6.7	440	NA
	07/13/88		40.78	NC	0.00	162.3	7.7	22.5	14.1	290	NA
	08/05/88		41.72	NC	0.00	245	5.2	47.1	23.7	1,180	NA
	08/12/88		42.14	NC	0.00	NS	NS	NS	NS	NS	NS
	08/17/88		NM	NC	NM	NS	NS	NS	NS	NS	NS
	08/26/88		42.51	NC	0.00	NS	NS	NS	NS	NS	NS
	09/07/88		42.85	NC	0.00	474	16	262	136	2,920	NA
	10/24/88		Well destroyed								
MW7	07/13/88	321.27	40.50	280.77	0.00	860	1,910	710	4,420	16,700	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW7	07/22/88	321.27	41.85 ^a	279.42	0.00	136	85	5	58	460	NA
	08/05/88		41.45 ^a	279.82	0.00	73.3	52.8	2.3	28.1	270	NA
	08/12/88		42.69	278.58	NM	NS	NS	NS	NS	NS	NS
	09/07/88		42.60	278.67	NM	NS	NS	NS	NS	NS	NS
	12/07/88		NM	NC	NM	NS	NS	NS	NS	NS	NS
	01/17/89		43.20	278.07	NM	NS	NS	NS	NS	NS	NS
	02/09/89		NM	NC	NM	600	688	10	448	6,700	NA
	06/30/89		NM	NC	NM	180	50	13	40	1,100	NA
	08/02/89		NM	NC	NM	1.6	<0.5	<0.5	0.6	31	NA
	09/13/89		NM	NC	NM	<0.5	2.6	<0.5	12	87	NA
	10/12/89		49.93	271.34	0.00	NS	NS	NS	NS	NS	NS
	11/28/89		57.61 ^a	263.66	0.00	NS	NS	NS	NS	NS	NS
	12/20/89		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	01/09/90		57.57 ^a	263.70	0.00	NS	NS	NS	NS	NS	NS
	01/26/90		57.54 ^a	263.73	0.00	NS	NS	NS	NS	NS	NS
	01/26/90		49.08	272.19	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		55.26 ^a	266.01	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		48.93	272.34	0.00	NS	NS	NS	NS	NS	NS
	03/26/90		57.52 ^a	263.75	0.00	NS	NS	NS	NS	NS	NS
	03/26/90		48.60	272.67	0.00	NS	NS	NS	NS	NS	NS
	04/18/90		57.55 ^a	263.72	0.00	NS	NS	NS	NS	NS	NS
	05/17/90		57.40 ^a	263.87	0.00	NS	NS	NS	NS	NS	NS
	06/11/90		50.68	270.59	0.00	NS	NS	NS	NS	NS	NS
	07/30/90		NM	NC	NM	NS	NS	NS	NS	NS	NS
	08/27/90		53.05	268.22	0.00	NS	NS	NS	NS	NS	NS
	09/28/90		NM	NC	NM	NS	NS	NS	NS	NS	NS
	12/27/90		NM	NC	NM	NS	NS	NS	NS	NS	NS
	03/20/91		54.11	267.16	0.00	NS	NS	NS	NS	NS	NS
	06/20/91		55.14	266.13	0.00	<0.5	1.8	0.6	4.1	74	NA
	09/12/91		55.84	265.43	0.00	3.5	<0.5	1.7	6.8	<50	NA
	12/30/91		55.21	266.06	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	01/30/92		54.88	266.39	0.00	NS	NS	NS	NS	NS	NS
	03/02/92		NM	NC	NM	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW7	03/24/92	321.27	NM	NC	NM	NS	NS	NS	NS	NS	NS
	04/14/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	05/21/92		53.36	267.91	0.00	NS	NS	NS	NS	NS	NS
	06/08/92		54.20	267.07	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	07/14/92		53.31	267.96	0.00	NS	NS	NS	NS	NS	NS
	08/10/92		54.01	267.26	0.00	NS	NS	NS	NS	NS	NS
	09/16/92		55.97	265.30	0.00	NS	NS	NS	NS	NS	NS
	10/07/92		56.09	265.18	0.00	NS	NS	NS	NS	NS	NS
	11/09/92		54.16	267.11	0.00	NS	NS	NS	NS	NS	NS
	12/10/92		56.02	265.25	0.00	NS	NS	NS	NS	NS	NS
	01/26/93		56.15	265.12	0.00	NS	NS	NS	NS	NS	NS
	02/16/93		56.23	265.04	0.00	28	30	17	200	600	NA
	03/11/93		55.82	265.45	0.00	NS	NS	NS	NS	NS	NS
	04/12/93		55.45	265.82	0.00	NS	NS	NS	NS	NS	NS
	06/01/93		54.90	266.37	0.00	NS	NS	NS	NS	NS	NS
	07/15/93		54.50	266.77	0.00	NS	NS	NS	NS	NS	NS
	08/15/93		54.25	267.02	0.00	NS	NS	NS	NS	NS	NS
	09/29/93		54.55	266.72	0.00	NS	NS	NS	NS	NS	NS
	09/30/93		NM	NC	NM	NS	NS	NS	NS	NS	NS
	10/28/93		54.94	266.92	0.00	NS	NS	NS	NS	NS	NS
	11/23/93		54.73	266.54	0.00	NS	NS	NS	NS	NS	NS
	11/24/93		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/10-11-94		52.83	268.44	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/04-05/94		52.77	268.50	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/01/94 ^e		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/16/94		52.74	268.53	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/15/95		50.05	271.22	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/09/95		44.61	276.66	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/21/95		41.40	279.87	0.00	<0.5	<0.5	<0.5	<0.5	<50	4.1
	11/30/95		39.64	281.63	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	03/28/96		36.42	284.85	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	05/31/96		34.87	286.40	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	08/28/96		39.11	282.16	0.00	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	
MW7	11/18/96	321.27	39.10	282.17	0.00	NS	NS	NS	NS	NS	NS	
	02/28/97		34.03	287.24	0.00	NS	NS	NS	NS	NS	NS	
	05/23/97		34.36	286.91	0.00	NS	NS	NS	NS	NS	NS	
	09/23/97		38.66	282.61	0.00	<0.5	<0.5	<0.5	<0.5	<50	4.4	
	12/30/97		37.45	283.82	0.00	NS	NS	NS	NS	NS	NS	
	03/24/98		NM	NC	NM	NS	NS	NS	NS	NS	NS	NS
	06/15/98		30.05	291.22	0.00	NS	NS	NS	NS	NS	NS	NS
	09/11/98		35.63	285.64	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5	
	12/09/98		21.54	299.73	NM	NS	NS	NS	NS	NS	NS	NS
	03/31/99		28.84	292.43	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.0	
	06/30/99		34.68	286.59	0.00	5.96	<0.5	<0.5	<0.5	<50	<2.5	
	08/03/99		38.22	283.05	0.00	NS	NS	NS	NS	NS	NS	NS
	09/24/99		42.59	278.68	0.00	<0.5	<0.5	<0.5	<0.5	<50	11.7 ^f	
	12/22/99		41.69	279.58	0.00	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0 ^f	
	04/04/00		35.45	285.82	0.00	<1	<1	<1	<1	<50	<1	
	06/28/00		40.46	280.81	0.00	<0.5	<0.5	<0.5	<0.5	<50	4.88 ^f	
09/26/00	44.00	277.27	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f			
MW8	10/01/89	321.86	53.88	267.98	0.00	NS	NS	NS	NS	NS	NS	
	10/03/89		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA	
	11/28/89		53.74	268.12	0.00	NS	NS	NS	NS	NS	NS	
	12/20/89		NM	NC	NM	<0.5	<0.5	<0.5	0.61	<20	NA	
	01/09/90		57.90	263.96	0.00	NS	NS	NS	NS	NS	NS	
	01/26/90		53.57	268.29	0.00	NS	NS	NS	NS	NS	NS	
	01/31/90		NM	NC	NM	<0.5	<0.5	<0.5	0.87	<20	NA	
	02/09/90		NM	NC	NM	<0.5	<0.5	<0.5	1.1	<20	NA	
	(Blank)		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA	
	02/23/90		52.16	269.70	0.00	NS	NS	NS	NS	NS	NS	
	03/26/90		52.80 ^a	269.06	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA	
	(Blank)		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA	
	04/18/90		51.60	270.26	0.00	<0.5	0.58	<0.5	1.1	<20	NA	
	05/17/90		58.21	263.65	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA	
	06/11/90		58.65	263.21	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA	

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW8	07/30/90	321.86	64.33	257.53	0.00	NS	NS	NS	NS	NS	NS
	08/01/90		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<20	NA
	08/27/90		70.41	251.45	0.00	<0.5	<0.5	<0.5	0.5	<20	NA
	09/28/90		71.93	249.93	0.00	<0.5	<0.5	<0.5	0.5	<50	NA
	12/27/90		66.60	255.26	0.00	<0.5	<0.5	<0.5	0.6	<50	NA
	03/20/91		60.75	261.11	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	06/20/91		88.77	233.09	0.00	<0.5	<0.5	<0.5	0.6	<50	NA
	09/12/91		103.17	218.69	0.00	NS	NS	NS	NS	NS	NS
	10/14/91		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	12/30/91		81.15	240.71	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	01/30/92		81.69	240.17	0.00	NS	NS	NS	NS	NS	NS
	03/02/92		78.45	243.41	0.00	NS	NS	NS	NS	NS	NS
	03/24/92		76.55	245.31	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	04/14/92		75.56	246.30	0.00	NS	NS	NS	NS	NS	NS
	05/21/92		86.99	234.87	0.00	NS	NS	NS	NS	NS	NS
	06/08/92		91.69	230.17	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	07/14/92		94.65	227.21	0.00	NS	NS	NS	NS	NS	NS
	08/10/92		95.02	226.84	0.00	NS	NS	NS	NS	NS	NS
	09/16/92		91.90	229.96	0.00	<0.5	0.9	<0.5	<0.5	<50	NA
	10/07/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	11/09/92		84.35	237.51	0.00	NS	NS	NS	NS	NS	NS
	12/10/92		82.20	239.66	0.00	<0.5	0.6	<0.5	<0.5	<50	NA
	01/26/93		78.63	243.23	0.00	NS	NS	NS	NS	NS	NS
	02/16/93		76.90	244.96	0.00	0.7	0.6	<0.5	2.3	<50	NA
	03/11/93		74.39	247.47	0.00	NS	NS	NS	NS	NS	NS
	04/12/93		71.20	250.66	0.00	26	7.3	11	38	230	NA
	06/01/93		68.04	253.82	0.00	NS	NS	NS	NS	NS	NS
	07/15/93		78.05	243.81	0.00	NS	NS	NS	NS	NS	NS
	08/15/93		78.45	243.41	0.00	NS	NS	NS	NS	NS	NS
	09/29/93		73.64	248.22	0.00	NS	NS	NS	NS	NS	NS
	09/30/93		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	10/28/93		67.53	253.91	0.00	NS	NS	NS	NS	NS	NS
	11/23/93		64.68	256.76	0.00	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW8	11/24/93	321.86	NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/10-11/94		59.26	262.60	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/04-05/94		56.84	265.02	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/01/94 ^e		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/16/94		55.47	266.39	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/15/95		52.00	269.86	0.00	NS	NS	NS	NS	NS	NS
	05/09/95		46.60	275.26	0.00	NS	NS	NS	NS	NS	NS
	05/12/95		NM	NC	NM	2.3	1.2	2.0	7.4	<50	NA
	08/21/95		43.86	278.00	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	11/30/95		41.25	280.61	0.00	<0.5	<0.5	0.69	2.7	<50	<5.0
	03/28/96		37.71	284.15	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	05/31/96		36.71	285.15	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	08/28/96		42.80	279.06	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	11/18/96		40.78	281.08	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	02/28/97		35.14	286.72	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Duplicate	02/28/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Rinseate	02/28/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	05/23/97		36.41	285.45	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Duplicate	05/23/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Rinseate	05/23/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	09/23/97		41.22	280.64	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Duplicate	09/23/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Rinseate	09/23/09		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	12/30/97		39.81	282.05	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
Duplicate	12/30/97		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
Rinseate	12/30/97		NM	NC	NM	<0.5	0.52	<0.5	<0.5	<50	3.2 ^f
	03/24/98		31.46	290.40	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	06/15/98		31.43	290.43	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
Duplicate	06/15/98		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	09/11/98		38.73	283.13	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Duplicate	09/11/98		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW8	12/09/98	321.86	28.96	292.90	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.0 ^f
Duplicate	12/09/98		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.0 ^f
Rinseate	12/09/98		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.0 ^f
	03/31/99		25.05	296.81	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.0
Duplicate	03/31/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.0
Rinseate	03/31/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.0
	06/30/99		42.62	279.24	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
Duplicate	06/30/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	13.1/1.18 ^{f,lt}
Rinseate	06/30/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	08/03/99		51.59	270.27	0.00	<0.5	<0.5	<0.5	<0.5	<50	0.672 ^f
Duplicate	08/03/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	0.659 ^f
Rinseate	08/03/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	<0.5 ^f
	09/24/99		50.95	270.91	0.00	<0.5	<0.5	<0.5	<0.5	<50	0.777 ^f
Duplicate	09/24/99		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	0.776 ^f
	12/22/99		38.59	283.27	0.00	<1.0	<1.0	<1.0	<1.0	<50	<5.0 ^f
Duplicate	12/22/99		NM	NC	NM	<1.0	<1.0	<1.0	<1.0	<50	<5.0 ^f
Rinseate	12/22/99		NM	NC	NM	<1.0	<1.0	<1.0	<1.0	<50	<5.0 ^f
	04/04/00		36.21	285.65	0.00	<1	<1	<1	<1	<50	3.3/<5 ^f
	06/28/00		46.51	275.35	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
	09/26/00		47.55	274.31	0.00	<0.5	<0.5	<0.5	0.528	<50	<1 ^f
MW9	10/03/89	321.44	NM	NC	NM	1,000	9,200	3,000	13,000	89,000	NA
	10/12/89		50.24	271.20	0.00	NS	NS	NS	NS	NS	NS
	11/28/89		50.59	270.85	0.10	NS	NS	NS	NS	NS	NS
	12/01/89		50.32	271.12	0.02	NS	NS	NS	NS	NS	NS
	12/07/89		50.13	271.31	0.16	NS	NS	NS	NS	NS	NS
	12/13/89		49.91	271.53	Slight Sheen	NS	NS	NS	NS	NS	NS
	12/20/89		49.78	271.66	Slight Sheen	6,300	31,000	9,500	55,000	190,000	NA
	01/02/90		NM	NC	NM	NS	NS	NS	NS	NS	NS
	01/09/90		49.39	272.05	Slight Sheen	NS	NS	NS	NS	NS	NS
	01/25/90		NM	NC	NM	2,400	9,400	2,700	15,000	77,000	NA
	01/26/90		49.30	272.14	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		49.06 ^a	272.38	0.00	1,200	7,100	2,300	14,000	97,000	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW9	02/23/90	321.44	49.05	272.39	0.00	NS	NS	NS	NS	NS	NS
	03/26/90		48.75 ^a	272.69	0.00	1,800	7,700	2,000	11,000	89,000	NA
	03/26/90		48.73	272.71	Slight sheen	NS	NS	NS	NS	NS	NS
	04/18/90		48.81	272.63	0.00	2,000	7,500	2,500	16,000	110,000	NA
	05/17/90		49.96	271.48	0.00	1,500	5,700	2,300	14,000	81,000	NA
	06/11/90		51.58	269.86	0.00	NS	NS	NS	NS	NS	NS
	06/20/90		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	430	NA
	07/30/90		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	08/27/90		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	09/28/90		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	12/27/90		NM	NC	NM	NS	NS	NS	NS	NS	NS
	03/20/91		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	06/20/91		49.63	271.81	NM	NS	NS	NS	NS	NS	NS
	09/12/91		NM	NC	NM	NS	NS	NS	NS	NS	NS
	12/30/91		NM	NC	NM	NS	NS	NS	NS	NS	NS
	01/30/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	03/02/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	03/24/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	04/14/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	05/21/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	06/08/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	07/14/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	08/10/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	09/16/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	10/07/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	11/09/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	12/10/92		NM	NC	NM	NS	NS	NS	NS	NS	NS
	01/26/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	02/16/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	03/11/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	04/12/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	06/01/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	07/15/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW9	08/15/93	321.44	NM	NC	Dry	NS	NS	NS	NS	NS	NS
	09/29/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	10/28/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	11/23/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	03/10-11/94		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	05/04-05/94		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	11/16/94		52.62	268.82	0.00	NS	NS	NS	NS	NS	NS
	02/15/95		49.76	271.68	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/09/95		44.30	277.14	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/21/95		41.11	280.33	0.00	270	51	5.2	140	1,100	<25
	11/30/95		39.40	282.04	0.00	920	680	120	870	6,600	<100
	03/28/96		36.13	285.31	0.00	72	28	1.8	49	360	<10
	05/31/96		34.56	286.88	0.00	2,800	510	<50	400	8,200	<5.0
	08/28/96		38.80	282.64	0.00	1.6	<0.5	<0.5	9.6	160	28
	11/18/96	38.74	282.70	0.00	2,000	610	130	790	7,100	<200	
	02/28/97	33.74	287.70	0.00	2,900	2,600	280	2,400	22,000	4,200	
	05/23/97	33.77	287.67	0.00	5,300	5,200	800	3,900	32,000	1,600	
	09/23/97	320.68	38.17	282.51	0.00	<0.5	<0.5	<0.5	<0.5	<50	20
	12/30/97		38.83	281.85	0.00	840	750	80	310	4,600	1,100 ^f
	03/24/98		31.32	289.36	0.00	11,000	16,000	1,200	6,200	62,000	7,000
	06/15/98		28.72	291.96	0.00	1.8	2.7	<0.5	3.8	<50	8.1
	09/11/98		31.52	289.16	0.00	1.5	0.97	<0.5	1.1	<50	7.1
	12/09/98		28.92	291.76	0.00	1.4	2.9	<0.5	<0.5	<50	7.9 ^f
	03/31/99		27.77	292.91	0.00	2,560	4,100	118	3,090	18,400	3,850/4,950 ^f
	06/30/99		32.57	288.11	0.00	0.883	1.43	<0.5	1.24	<50	7.05/5.81 ^{fh}
	08/03/99		36.24	284.44	0.00	1.20	1.70	<0.5	0.60	91.1	<0.5 ^f
	09/24/99		320.26	41.65	278.61	0.00	2.60/3.13 ⁱ	1.06	<0.5	1.17	<50
12/22/99	40.55	279.71		0.00	860/870 ⁱ	380/380 ⁱ	<5.0/<5.0 ⁱ	2,190/2,170 ⁱ	7,300	4,300 ^f	
04/04/00	34.69	285.57		0.00	2.7	2.5	<1	9	<50	310/300 ^f	
06/28/00	39.31	280.95		0.00	111	2.98	<0.5	14.9	207	488 ^f	
09/26/00	43.14	277.12		0.00	<0.5	<0.5	<0.5	<0.5	<50	77.2 ^f	
MW10	10/12/89	322.99	51.93	271.06	0.00	<0.5	<0.5	<0.5	<0.5	20	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW10	11/28/89	322.99	51.88	271.11	0.00	NS	NS	NS	NS	NS	NS
	12/20/89		51.47	271.52	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	01/09/90		50.98	272.01	0.00	NS	NS	NS	NS	NS	NS
	01/26/90		50.87	272.12	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		50.67 ^a	272.32	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		50.65	272.34	0.00	NS	NS	NS	NS	NS	NS
	03/26/90		50.36 ^a	272.63	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	03/26/90		50.35	272.64	0.00	NS	NS	NS	NS	NS	NS
	04/18/90		50.45	272.54	0.00	NS	NS	NS	NS	NS	NS
	06/11/90		51.16	271.83	0.00	NS	NS	NS	NS	NS	NS
	07/30/90		55.72	267.27	0.00	NS	NS	NS	NS	NS	NS
	08/27/90		57.75	265.24	0.00	<0.5	<0.5	<0.5	<0.5	<20	NA
	09/28/90		NM	NC	NM	NS	NS	NS	NS	NS	NS
	12/27/90		58.08	264.91	0.00	NS	NS	NS	NS	NS	NS
	03/20/91		57.80	265.19	0.00	NS	NS	NS	NS	NS	NS
	06/20/91		58.00	264.99	0.00	NS	NS	NS	NS	NS	NS
	09/12/91		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	12/30/91		NM	NC	NM	NS	NS	NS	NS	NS	NS
	01/30/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	03/02/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	03/24/92		58.53	264.46	0.00	NS	NS	NS	NS	NS	NS
	04/14/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	05/21/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	06/08/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	07/14/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	08/10/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	09/16/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	10/07/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	11/09/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	12/10/92		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	01/26/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	02/16/93		58.23	264.76	0.00	NS	NS	NS	NS	NS	NS
	03/11/93		57.81	265.18	0.00	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW10	04/12/93	322.99	57.84	265.15	0.00	21	11	21	75	350	NA
	06/01/93		57.88	265.11	NM	NS	NS	NS	NS	NS	NS
	07/15/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	08/15/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	09/29/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	10/28/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	11/23/93		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	03/10-11/94		NM	NC	Dry	NS	NS	NS	NS	NS	NS
	05/04-05/94		57.21	265.78	Dry	NS	NS	NS	NS	NS	NS
	09/01/94 ^e		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	11/16/94		54.82	268.17	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	02/15/95		51.90	271.09	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/09/95		46.32	276.67	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/21/95		43.06	279.93	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	11/30/95		41.34	281.65	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	03/28/96		38.15	284.84	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	05/31/96		36.61	286.38	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	08/28/96		40.86	282.13	0.00	NS	NS	NS	NS	NS	NS
	11/18/96		40.90	282.09	0.00	NS	NS	NS	NS	NS	NS
	02/28/97		35.75	287.24	0.00	NS	NS	NS	NS	NS	NS
	05/23/97		36.07	286.92	0.00	NS	NS	NS	NS	NS	NS
	09/23/97		40.41	282.58	0.00	NS	NS	NS	NS	NS	NS
	12/30/97		38.20	284.79	0.00	NS	NS	NS	NS	NS	NS
	03/24/98		34.12	288.87	0.00	NS	NS	NS	NS	NS	NS
	06/15/98		31.79	291.20	0.00	NS	NS	NS	NS	NS	NS
	09/11/98		35.40	287.59	0.00	NS	NS	NS	NS	NS	NS
	12/09/98		34.32	288.67	0.00	NS	NS	NS	NS	NS	NS
	03/31/99		30.55	292.44	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.0
	06/30/99		36.36	286.63	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	08/03/99		39.95	283.04	0.00	NS	NS	NS	NS	NS	NS
	09/24/99		44.40	278.59	0.00	<0.5	<0.5	<0.5	0.87	<50	19.30 ^f
	12/22/99		43.39	279.60	0.00	9.5	5.3	3.9	25.1	140	<5.0 ^f
	04/04/00		37.18	285.81	0.00	<1	<1	<1	<1	<50	<1

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW10	06/28/00	322.99	42.19	280.80	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
	09/26/00		45.80	277.19	0.00	<0.5	<0.5	<0.5	<0.5	<50	3.39 ^f
MW11	11/10/89	321.77	50.64	272.13	0.00	NS	NS	NS	NS	NS	NS
	11/16/89		NM	NC	NM	4.1	9.4	0.74	20	150	NA
	11/28/89		50.51	272.26	0.00	NS	NS	NS	NS	NS	NS
	12/20/89		51.47	271.30	0.00	7.2	7.5	2.9	13	150	NA
	01/09/90		49.68	273.09	0.00	NS	NS	NS	NS	NS	NS
	01/26/90		49.55	273.22	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		49.37 ^a	273.40	0.00	NS	NS	NS	NS	NS	NS
	02/23/90		49.35	273.42	0.00	NS	NS	NS	NS	NS	NS
	03/26/90		49.03 ^a	273.74	0.00	<0.5	<0.5	<0.5	2.7	32	NA
	04/18/90		49.12	273.65	0.00	NS	NS	NS	NS	NS	NS
	05/17/90		50.30	272.47	0.00	NS	NS	NS	NS	NS	NS
	06/11/90		51.16	271.61	0.00	NS	NS	NS	NS	NS	NS
	07/30/90		53.50	269.27	0.00	<0.5	<0.5	<0.5	3.8	26	NA
	08/27/90		53.65	269.12	0.00	NS	NS	NS	NS	NS	NS
	09/28/90		53.62	269.15	0.00	NS	NS	NS	NS	NS	NS
	12/27/90		53.63	269.14	0.00	NS	NS	NS	NS	NS	NS
	03/20/91		53.26	269.51	0.00	NS	NS	NS	NS	NS	NS
	06/20/91		53.60	269.17	0.00	NS	NS	NS	NS	NS	NS
	09/12/91		53.60	269.17	0.00	NS	NS	NS	NS	NS	NS
	12/30/91		53.95	268.82	0.00	NS	NS	NS	NS	NS	NS
	01/30/92		53.65	269.12	0.00	NS	NS	NS	NS	NS	NS
03/02/92	53.68	269.09	0.00	NS	NS	NS	NS	NS	NS		
03/24/92	53.70	269.07	0.00	NS	NS	NS	NS	NS	NS		
04/14/92	53.66	269.11	0.00	NS	NS	NS	NS	NS	NS		
05/21/92	53.62	269.15	0.00	NS	NS	NS	NS	NS	NS		
06/08/92	53.61	269.16	0.00	NS	NS	NS	NS	NS	NS		
07/14/92	53.53	269.24	0.00	NS	NS	NS	NS	NS	NS		
08/10/92	53.58	269.19	0.00	NS	NS	NS	NS	NS	NS		
09/16/92	53.60	269.17	0.00	NS	NS	NS	NS	NS	NS		
10/07/92	DRY	DRY	DRY	NM	NS	NS	NS	NS	NS	NS	

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW11	11/09/92	321.77	DRY	DRY	NM	NS	NS	NS	NS	NS	NS
	12/10/92		53.59	269.18	0.00	NS	NS	NS	NS	NS	NS
	01/26/93		53.67	269.10	0.00	NS	NS	NS	NS	NS	NS
	02/16/93		53.60	269.17	0.00	NS	NS	NS	NS	NS	NS
	03/11/93		53.58	269.19	0.00	NS	NS	NS	NS	NS	NS
	04/12/93		53.54	269.23	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	06/01/93		53.52	269.25	0.00	NS	NS	NS	NS	NS	NS
	07/15/93		53.60	269.17	0.00	NS	NS	NS	NS	NS	NS
	08/15/93		53.55	269.22	0.00	NS	NS	NS	NS	NS	NS
	09/29/93		53.62	269.15	0.00	NS	NS	NS	NS	NS	NS
	09/30/93		NM	NC	NM	NS	NS	NS	NS	NS	NS
	10/28/93		53.63	269.14	0.00	NS	NS	NS	NS	NS	NS
	11/23/93		53.58	268.19	0.00	NS	NS	NS	NS	NS	NS
	11/24/93		NM	NC	NM	<0.5	<0.5	<0.5	<0.5	<50	NA
	03/10-11/94		53.61	268.16	0.00	NS	NS	NS	NS	NS	NS
	05/04-05/94		53.51	268.26	0.00	NS	NS	NS	NS	NS	NS
	11/16/94		53.46	268.31	0.00	NS	NS	NS	NS	NS	NS
	02/15/95		50.57	271.20	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	05/09/95		45.05	276.72	0.00	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/21/95		41.88	279.89	0.00	<0.5	<0.5	<0.5	<0.5	<50	2.8
	11/30/95		40.04	281.73	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	03/28/96		36.90	284.87	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	05/31/96		35.34	286.43	0.00	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	08/28/96		39.56	282.21	0.00	NS	NS	NS	NS	NS	NS
	11/18/96		39.56	282.21	0.00	NS	NS	NS	NS	NS	NS
	02/28/97		34.50	287.27	0.00	NS	NS	NS	NS	NS	NS
	05/23/97		34.80	286.97	0.00	NS	NS	NS	NS	NS	NS
	09/23/97		39.18	282.59	0.00	NS	NS	NS	NS	NS	NS
	12/30/97		37.94	283.83	0.00	NS	NS	NS	NS	NS	NS
	03/24/98		32.86	289.65	NM	NS	NS	NS	NS	NS	NS
	06/15/98		30.49	291.28	0.00	NS	NS	NS	NS	NS	NS
	09/11/98		35.96	285.81	0.00	NS	NS	NS	NS	NS	NS
	12/09/98		33.06	288.71	0.00	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
MW11	03/31/99	321.77	29.31	292.46	0.00	<0.5	<0.5	<0.5	<0.5	<50	2.79/2.64 ^f
	06/30/99		35.15	286.62	0.00	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	08/03/99		38.65	283.12	0.00	NS	NS	NS	NS	NS	NS
	09/24/99	321.73	43.08	278.65	0.00	<0.5	<0.5	<0.5	<0.5	<50	3.93 ^f
	12/22/99		40.94	280.79	0.00	<1.0	<1.0	<1.0	<1.0	<50	<5.0 ^f
	04/04/00		35.91	285.82	0.00	<1	<1	<1	<1	<50	<1
	06/28/00		40.46	281.27	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
	09/26/00		44.45	277.28	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
MW12A	09/26/00		48.26	NC	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
MW13	09/26/00		45.62	NC	0.00	0.504	0.594	<0.5	0.982	<50	1.62 ^f
MW14	09/26/00		46.90	NC	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
VR1	03/24/92		NM	NC	NM	1.7	<0.5	<0.5	<0.5	<50	NA
	06/30/99		19.52	NC	0.00	<0.5	<0.5	<0.5	<0.5	<50	6.83/7.31 ^{fh}
	08/03/99		19.53	NC	0.00	<0.5	<0.5	<0.5	<0.5	<50	2.49 ^f
	09/24/99	321.00	19.73	301.27	0.00	<0.5	<0.5	<0.5	<0.5	<50	5.94 ^f
	12/22/99		21.35	299.65	0.00	<1.0	<1.0	<1.0	<1.0	<50	10 ^f
	04/04/00		19.23	301.77	0.00	<1	<1	<1	<1	<50	4,500/5,500 ^f
	06/28/00		20.42	300.58	0.00	<0.5	<0.5	<0.5	<0.5	<50	1,370 ^f
	09/26/00		21.92	299.08	0.00	<0.5	<0.5	<0.5	<0.5	<50	387 ^f
VR2	06/30/99		33.63	NC	0.00	<0.5	<0.5	<0.5	<0.5	<50	1,080/1,160 ^{ft}
	08/03/99		37.19	NC	0.00	<0.5	<0.5	<0.5	<0.5	<50	3,390 ^f
	09/24/99	320.18	41.54	278.64	0.00	2,650	<50	<50	309	5,170	1,030 ^f
	12/22/99		40.63	279.55	0.00	<1.0	<1.0	<1.0	<1.0	<50	34 ^f
	01/21/00		39.04	281.14	0.00	<1.0	<1.0	<1.0	<1.0	<50	17 ^f
	04/04/00		35.63	284.55	0.00	<1	<1	<1	<1	<50	370/400 ^f
	06/28/00		39.28	280.90	0.00	1.12	<1	<1	<1	<50	268 ^f
	09/26/00		DRY	NC	NM	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
VR3	06/30/99		9.15	NC	0.00	<0.5	<0.5	<0.5	<0.5	<50	1,220/1,380 ^{EB}
	08/03/99		8.19	NC	0.00	<0.5	<0.5	<0.5	<0.5	<50	16,100 ^f
	09/24/99	318.73	8.97	309.76	0.00	7.20	1.14	<1.0	1.94	122	10,900 ^f
	Well destroyed 11/05/99										
VR4	06/30/99		8.50	NC	0.00	<0.5	<0.5	<0.5	<0.5	<50	146
	08/03/99		8.69	NC	0.00	<0.5	<0.5	<0.5	<0.5	71.7 ^B	3.96 ^f
	09/24/99	321.19	9.10	312.09	0.00	0.890	2.22	0.800	3.15	79.6	90.6 ^f
	Well destroyed 11/05/99										
OW1	09/24/99	322.45	10.37	312.08	0.00	2.10	1.41	<0.5	7.22	119	7,810 ^f
	12/22/99		10.93	311.52	0.00	12	<5.0	<5.0	5.2	360	44,000 ^f
	04/04/00		10.83	311.62	0.00	1	<1	<1	<1	120	5,300/6,800 ^f
	06/28/00		11.91	310.54	0.00	1.20	<1	<1	<1	<100	1,530 ^f
	09/26/00		DRY	NC	NM	NS	NS	NS	NS	NS	NS
OW2	09/24/99	321.55	9.48	312.07	0.00	31.1	<0.5	<0.5	20.6	275 ^B	177,000 ^f
	12/22/99		10.13	311.42	0.00	<5.0	<5.0	<5.0	5.2	410	85,000 ^f
	04/04/00		10.00	NC	NM	NS	NS	NS	NS	NS	NS
	06/28/00		11.00	310.55	0.00	<50	<50	<50	<50	<5,000	45,400 ^f
	09/26/00		11.11	310.44	0.00	<0.5	<0.5	<0.5	<0.5	<50	1,690 ^f
PMW1	12/22/99	322.75	NM	NC	Dry	NS	NS	NS	NS	NS	NS
	04/04/00		NM	NC	NM	NS	NS	NS	NS	NS	NS
	06/28/00		13.72	309.03	0.00	<0.5	<0.5	<0.5	<0.5	<50	<1 ^f
	09/26/00		DRY	NC	NM	NS	NS	NS	NS	NS	NS
PMW2	12/22/99	322.37	12.85	309.52	0.00	NS	NS	NS	NS	NS	NS
	04/04/00		10.65	311.72	0.00	<1	<1	<1	<1	<50	740/720 ^f
	06/28/00		11.50	310.87	0.00	<0.5	<0.5	<0.5	<0.5	<50	1,570 ^f
	09/26/00		12.36	310.01	0.00	<0.5	<0.5	<0.5	<0.5	<50	157 ^f
PMW3	12/22/99	321.27	12.61	308.66	0.00	NS	NS	NS	NS	NS	NS

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
PMW3	04/04/00	321.27	9.78	311.49	0.00	<1	<1	<1	<1	<50	250/310 ^f
	06/28/00		10.52	310.75	0.00	<0.5	<0.5	<0.5	<0.5	<50	31.5 ^f
	09/26/00		10.39	310.88	0.00	<0.5	<0.5	<0.5	<0.5	<50	13.6 ^f
PMW4	12/22/99	321.37	15.32	306.05	0.00	NS	NS	NS	NS	NS	NS
	04/04/00		10.60	310.77	0.00	<1	<1	<1	<1	<50	28/27 ^f
	06/28/00		14.00	307.37	0.00	<0.5	<0.5	<0.5	<0.5	<50	3.73 ^f
	09/26/00		DRY	NC	NM	NS	NS	NS	NS	NS	NS
PMW5	12/22/99	320.04	13.19	306.85	0.00	1.0	<1.0	<1.0	<1.0	<50	810 ^f
	04/04/00		9.61	310.43	0.00	<1	<1	<1	<1	<50	680/890 ^f
	06/28/00		10.10	309.94	0.00	1.79	<0.5	<0.5	<0.5	<50	629 ^f
	09/26/00		12.15	307.89	0.00	1.83	<0.5	<0.5	<0.5	<50	743 ^f
PMW6	12/22/99	321.38	NM	NC	Dry	NS	NS	NS	NS	NS	NS
	04/04/00		15.10	NC	NM	NS	NS	NS	NS	NS	NS
	06/28/00		14.60	NC	NM	NS	NS	NS	NS	NS	NS
	09/26/00		NM	NC	NM	NS	NS	NS	NS	NS	NS
Rinse Blank	09/26/00					<0.5	<0.5	<0.5	<0.5	<50	<1 ^f

a = Water level recorded during pumping of MW7.

b = Anomalous water level possibly due to recharge from a perched water zone.

c = Casing head cut to lower elevation.

d = Casing head damaged by construction.

e = Results obtained past the technical holding time.

f = Methyl tertiary butyl ether by EPA Method 8260.

g = Unidentified Hydrocarbon C6-C12.

h = Analysis performed outside of EPA recommended hold time.

Depth to groundwater = Measured from notch/mark on north edge of well casing.

LPH = Liquid-phase hydrocarbons.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Monitoring Well	Date	Reference Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)
-----------------	------	----------------------------	-----------------------	------------------------------	----------------------	----------------	----------------	----------------------	----------------------	------------------------	-------------

TPH = Total Petroleum Hydrocarbons.

MTBE = Methyl tertiary butyl ether.

NA = Not analyzed.

NC = Not calculated.

ND = Not detected at or above the laboratory's reporting limits.

NM = Not measured.

NS = Not sampled.

µg/L = Micrograms per liter.

Appendix A

Correspondence from the Alameda County Health Agency

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

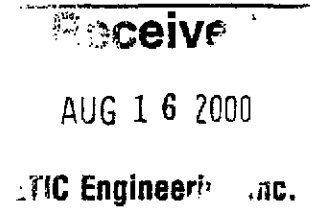
FILE CORR. REC'D.

August 10, 2000

STID 1932

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

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



RE: Exxon Service Station #7-3399, 2991 Hopyard Road, Pleasanton

Dear Mr. Rouse:

We are in receipt of the May 17, 2000 ETIC Engineering, Inc. (ETIC) workplan, as revised by ETIC in an addendum dated August 1, 2000. The cited workplan, as revised, proposes the locations, depths and screen intervals for the completion of two discrete clusters of sentinel wells (3 wells, total) in off-site locations north and northwest of the subject site. The revised workplan also describes the use of sonic drilling to advance the boreholes for these wells. All critical elements of this pending work are the result of a series of scoping meetings between the various interested and regulatory parties which appear at the end of this letter.

I understand that drilling has been scheduled to begin on Tuesday, August 15, 2000. Please contact me at (510) 567-6783 if you anticipate a change in this schedule.

Sincerely,

Scott D. Seery, CHMM
Hazardous Materials Specialist

- cc: Steve Cusenza, Pleasanton Public Works Department
Chuck Headlee, RWQCB
Matt Katen, Zone 7
Danielle Stefani, Livermore-Pleasanton Fire Department
Joe Muehleck, ETIC Engineering, Inc., 144 Mayhew Way, Walnut Creek, CA 94524-4032

Appendix B

Permits



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235
FAX (925) 462-3914

DRILLING PERMIT APPLICATION

MW12, MW13, ^{NW}14

FOR APPLICANT TO COMPLETE

FOR OFFICE

LOCATION OF PROJECT HOPYARD ROAD + VALLEY AVENUE PLEASANTON, CA

PERMIT NUMBER 20080
WELL NUMBER _____
APN _____

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT
Name EXXON MOBIL REFINING AND SUPPLY CO.
Address PO BOX 4032 Phone 925-246-8768
City CONCORD, CA Zip 94524-4032 (A)

GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name ETIC ENGINEERING
Address 144 MAYHEW WAY Fax 925-977-7915
City WALNUT CREEK, CA Phone 925-977-7914
Zip 94576

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.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input checked="" type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other _____	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	SONIC	

DRILLER'S LICENSE NO. C57-694686*
BOART LONGYEAR

WELL PROJECTS

Drill Hole Diameter	<u>9</u> in.	Maximum	
Casing Diameter	<u>2</u> in.	Depth	<u>150</u> ft.
Surface Seal Depth	<u>> 20</u> ft.	Number	<u>3</u>

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 8/15/00
ESTIMATED COMPLETION DATE 9/1/00

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

APPLICANT'S SIGNATURE [Signature] Date 8/2/00

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 with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

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

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS

* New driller and drilling method. 8/14/00

Approved [Signature] Date 5/18/00
Wyman Hong

8/6/99



ZONE 7 WATER AGENCY

FILE COPY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235
FAX (925) 462-3914

DRILLING PERMIT APPLICATION

MW12A

FOR APPLICANT TO COMPLETE

FOR OFFICE

LOCATION OF PROJECT HOPYARD ROAD + VALLEY AVE, PLEASANTON, CA

PERMIT NUMBER 20145
WELL NUMBER _____
APN _____

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
CPN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT Name EXXON MOBIL REFINING + SUPPLY CO.
Address PO BOX 4032 Phone 925-246-8768
City CONCORD, CA Zip 94524-4032

(A)

GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT Name ETIC ENGINEERING
Address 144 MAYHEW WAY Phone 925-977-7714
City WALNUT CREEK, CA Zip 94596

(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.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection <input type="checkbox"/>	General <input type="checkbox"/>
Water Supply <input type="checkbox"/>	Contamination <input type="checkbox"/>
Monitoring <input checked="" type="checkbox"/>	Well Destruction <input type="checkbox"/>

(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.

PROPOSED WATER SUPPLY WELL USE

New Domestic <input type="checkbox"/>	Replacement Domestic <input type="checkbox"/>
Municipal <input type="checkbox"/>	Irrigation <input type="checkbox"/>
Industrial <input type="checkbox"/>	Other _____ <input type="checkbox"/>

DRILLING METHOD:

Mud Rotary <input type="checkbox"/>	Air Rotary <input type="checkbox"/>	Auger <input type="checkbox"/>
Cable <input type="checkbox"/>	Other <input checked="" type="checkbox"/>	<u>SONIC</u>

DRILLER'S LICENSE NO. CS7-694686
BOART LONGYEAR

WELL PROJECTS

Drill Hole Diameter <u>8</u> in.	Maximum
Casing Diameter <u>2</u> in.	Depth <u>150</u> ft.
Surface Seal Depth <u>>20</u> ft.	Number <u>1</u>

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 8/25/00
ESTIMATED COMPLETION DATE 8/31/00

Approved Wyman Hong Date 8/24/00
Wyman Hong

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.
APPLICANT'S SIGNATURE [Signature] Date 8/23/00

7-3390



ZONE 7 WATER AGENCY

FILE COPY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235
FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

MWIZ
DESTRUCTION

FOR OFFICE

LOCATION OF PROJECT HOPYARD ROAD +
VALLEY AVE., PLEASANTON, CA

PERMIT NUMBER 20144
WELL NUMBER 3S/1E 18H20
APN _____

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT
Name EXXON MOBIL REFINING + SUPPLY CO.
Address PO BOX 4032 Phone 925-246-8768
City CONCORD, CA Zip 94524-4032

(A)

GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name ETIC ENGINEERING
Address 144 MAYHEW WAY Phone 925-977-7714
City WALNUT CREEK, CA Zip 94576
Fax 925-977-7715

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.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

SEE ATTACHED

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic LOG
Municipal Irrigation
Industrial Other _____

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

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLER'S LICENSE NO. CS7-694696

WELL PROJECTS BOART LONGYEAR
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 132 ft.
Surface Seal Depth 20 ft. Number 1

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

GEOTECHNICAL PROJECTS

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

F. WELL DESTRUCTION See attached.

ESTIMATED STARTING DATE 8/25/00
ESTIMATED COMPLETION DATE 8/31/00

Approved Wyman Hong Date 8/24/00
Wyman Hong

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

APPLICANT'S
SIGNATURE [Signature] Date 8/23/00

8/6/00

August 24, 2000

Zone 7
Water Resources Engineering
Groundwater Protection Ordinance

Exxon Mobil Refining & Supply Company
Valley Avenue & Hopyard Road
Pleasanton
Wells 3S/1E 18H20
Permit 20144

Destruction Requirements:

1. Sound the well as deeply as practicable and record for your report.
2. Remove the casing, seal, and gravel pack to two feet below the finished grade or original ground, whichever is the lower elevation.
3. Fill the entire casing with cement grout using a tremie pipe. ~~Allow the sealing material to spill over the top of the casing to fill any annular space between the casing and soil.~~
Then pressurize grout, tremie and casing forcing grout out in to the formation
4. After the seal has set, backfill the remaining hole with compacted material.

MK
8/24/00

Appendix C

**Protocols for Borehole and Well Drilling,
Completion, Development, and Sampling**

PROTOCOLS FOR BOREHOLE AND WELL DRILLING, COMPLETION, DEVELOPMENT, AND SAMPLING

SONIC DRILLING

Prior to drilling, all boreholes are cleared of underground utilities using an independent utility locating contractor and USAAlert. A 24-inch circle or a 2-foot by 2-foot square is cut in the surface cover at each well location. An area larger than the bit diameter is hand augered to 4 feet to ensure that there are no obstructions near the potential path of the drill bit and casing.

Boreholes are drilled with a truck-mounted sonic drill equipped with 8.33-inch diameter steel conductor casing. Refer to the attached Sonic Drilling Method Description (provided by Boart Longyear) for further information. The diameter of the casing is selected to provide an annular space between the boring wall and the well casing of no less than 2 inches.

All down-hole equipment is 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 or steel roll-off bins. All fluids generated during drilling activities are contained in sealed 55-gallon drums. All waste generated during drilling activities is stored onsite until appropriate transport to an ExxonMobil-approved disposal or treatment facility is arranged. The drums are labeled with the borehole numbers, 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, blow counts, organic vapor analyzer readings (if applicable), moisture content of the soils, and initial and static water levels.

SOIL SAMPLING

Due to the nature of sonic drilling, no undisturbed soil samples are collected. Soil cuttings are examined for soil characteristics and logging purposes and classified according to the Unified Soil Classification System.

BOREHOLE GROUTING

Should boreholes be terminated, they are abandoned with a cement grout containing less than 5 percent pure sodium bentonite. The grout is pumped through a grouting tube positioned at the bottom of the boreholes.

WELL INSTALLATION

The boreholes are completed as groundwater monitoring wells, vapor extraction wells, groundwater extraction wells, or air sparging wells. The wells are constructed by installing Schedule 40 polyvinyl chloride (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. 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 2 to 4 feet above the top of the screen. The sand is placed through the inner opening of the outer casings as they are slowly removed. The sand is sealed by adding 1–2 feet of bentonite pellets and hydrating them with deionized 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 after completion. Development consists of surging the screened interval of the well for approximately 15 minutes. The well is then purged, with a vacuum truck and 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.

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. Purge water is transported to an ExxonMobil-approved treatment facility.

GROUNDWATER SAMPLING

All samples are collected with a factory cleaned disposable bailer. The bailer is operated by hand on a new rope or on Teflon-coated stainless steel wire. Sampling personnel wear clean Nitrile gloves during sampling operations and while handling sample bottles.

The groundwater samples are emptied from the bailer directly into the sample bottles with a bottom-emptying device. The samples are collected in either 40-ml glass volatile organic analysis vials or 1-liter amber bottles with Teflon-lined septum caps. The sample bottles contain appropriate preservatives, typically hydrochloric acid. The samples are filled to the top of the bottle so that there are no air bubbles.

The sample bottles are labeled with the well number, date, location, sampler's initials, and preservative. The sample vials are placed in an iced cooler for delivery to a certified laboratory for analysis. Standard chain-of-custody procedures are followed.

Attachment C-1

Sonic Drilling Method Description

(provided by Boart Longyear)

The Principle of Sonic Drilling

Sonic Drilling, Rotasonic, Rotosonic, Sonicore, Vibratory or Resonantsonic Drilling, are some of the many names given to a dual cased drilling system that employs the use of high frequency mechanical vibration to take continuous core samples of overburden and most bedrock formations, and to advance casing into the ground for well construction and other purposes.

Any of the names above can be used because they all describe a high frequency vibratory drilling system that is basically the same. The only differences are the rig designs, the operators, and some of the downhole tools and methods of operation that various sonic drillers or companies use. For ease, and to be consistent, we will refer to this system or method as sonic drilling throughout this article.

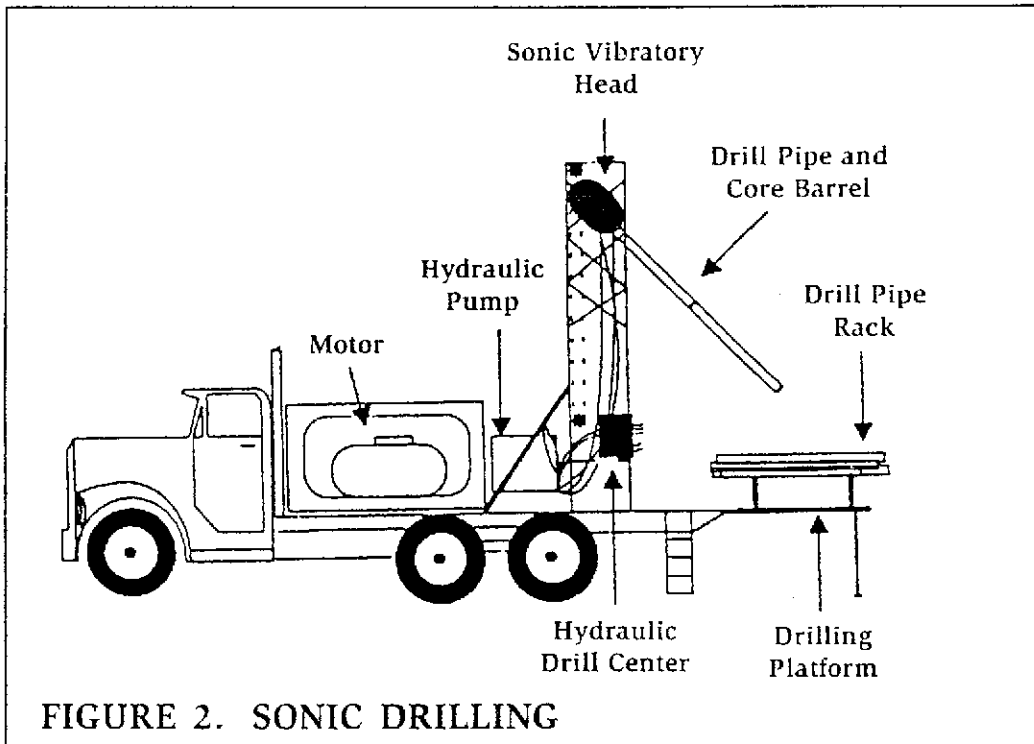
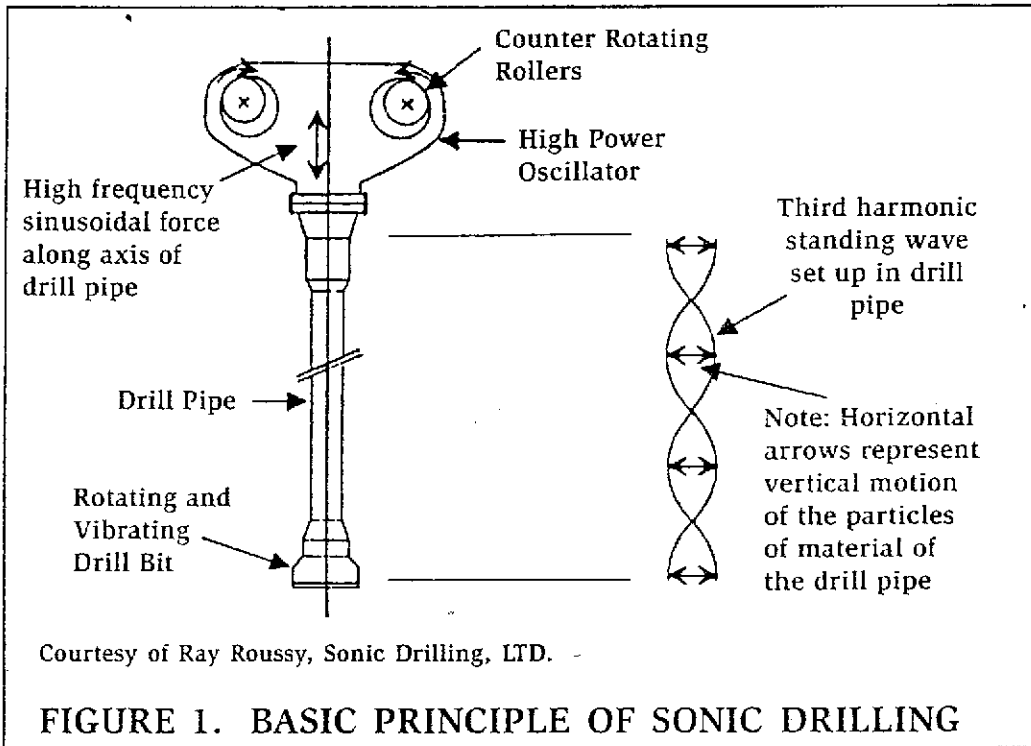
The word sonic appears in most of these names because this drilling technique vibrates the entire drill string at a frequency rate between 50 and 150 hertz or cycles per second. This frequency falls within the lower range of sound vibration that can be detected by the human ear, thus the term sonic has been commonly used to describe this drilling system.

The Rota- or Roto- part of the drilling technique refers to the rotational power that can be applied in hard formations to slowly rotate the drill string to evenly distribute the energy and the wear at the drill bit face.

A sonic drill rig looks and operates very much like any conventional top-drive rotary or auger rig. The main difference is that a sonic drill rig has a specially designed hydraulically powered drill head or oscillator which generates adjustable high frequency vibrational forces. The sonic head is attached directly to the core barrel, drill pipe or outer casing, sending the high frequency vibrations down through the drill steel to the face of the drill bit creating the displacement, fracturing or shearing action depending upon the foundation being drilled.

The oscillator uses two eccentric, counter rotating balance weights or rollers that are timed to direct 100 percent of the vibration at 0 degrees and 180 degrees. There is an air spring system in the drill head that insulates or separates the vibration from the drill rig itself. This principle is shown in Figure 1.

The vibrational frequency is controlled to suit operating conditions and to achieve optimum drilling rates. When the vibrations coincide with the natural resonate frequency of the steel drill rod or casing a natural phenomenon called resonance occurs, therefore the word resonant. A complete or detailed discussion of resonance is beyond the scope of this article. However, a brief explanation of what resonance does with this system is to allow the rig to transfer timed vibrational energy into the top of the drill string, utilizing the natural stored energy of the steel, to cause the drill string to act like a flywheel or a spring delivering tremendous amounts of energy directly to the bit face. This, plus the fact that the soil particles along the side of the drill string tend to fluidize or move away from the drill string allows for very fast penetration rates. In many overburden formations, a sonic drill rig can achieve rates of one foot per second.



Sonic Bore Hole Advancement

Process: The processes which result in borehole advancement are fracturing, shearing and displacement. Drilling through cobbles, boulders and rock is caused by fracturing of the material by the inertial moment of the drill bit. Shearing takes place in dense silts, clay and shales, provided the amplitude of the drill bit is high enough to overcome the elasticity of the formation material. Displacement occurs when unconsolidated formation material is moved away by the vibrating drill bit. We have 3 drill basic drill bit face designs:

- 1) "Crowd in" - moves all the bit face material into the core barrel.
- 2) "Crowd out" - moves all the bit face material into the borehole wall.
- 3) "Neutral" - lets the bit face material seek the path of least resistance..

Very few, if any, drill cuttings are conveyed to the surface, except for the core sample itself. As a result the volume of drill cuttings generated during sonic drilling is in most cases only 10% to 20% of the volume created by hollow stem auger, rotary, or cable tool methods.

Operation: Optimum penetration rates are obtained when the vibration frequency and down-pressure work in harmony. Experienced drillers have a "feel" when this occurs, and it is monitored by watching the oil pressure gauges in the system. The driller watches the pressure gauges and modifies the frequency of the vibration being generated, the rotation, or the down pressure for the conditions encountered. Adjustments to the frequency are accomplished with a lever which controls two hydraulic motors that drive the counter-rotating rollers.



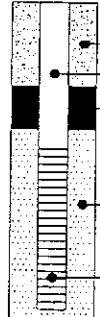

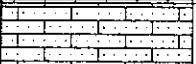
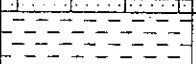
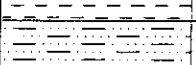
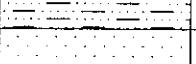
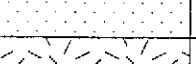
Several design features in addition to the use of vibration increases the speed and efficiency of the drilling process. The head, which combines rotation and vibration as previously discussed, is able to pivot 90 degrees. This allows rapid connection of flush-threaded drill pipe by rotating a male-threaded adapter on the head and aligning a length of female-threaded drill pipe directly to the adapter on the head. A fully automated, hydraulic, rotating wrench allows easy breakdown of the drill pipe connections. Once the connection is broken, the head and drill pipe are pivoted to the horizontal position, the rotation is reversed, and the drill pipe is "unscrewed" from the head.

Safety: Another feature of the sonic drill rig is a raised drilling platform. The drilling platform is approximately four feet above the ground surface, allowing a safer and cleaner work environment. Drilling operations are conducted without the inconvenience often caused by ground surface conditions (mud, snow, etc.). The drill pipe is stacked on racks on the platform, which increases the speed of adding and removing the drill string. Figure 2 on page 3 is a diagram which displays these features.

Appendix D

Boring Logs and Well Completion Diagrams

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 gravel, 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 silts or clays of medium to high plasticity.	
HIGHLY ORGANIC SOILS			Pt	Peat and other highly organic soils.

SYMBOLS	DRILL LOG	ROCK TYPES
 First Encountered Groundwater  Static Groundwater 		
		Limestone
		Dolomite
		Mudstone
		Siltstone
		Sandstone
		Igneous



LOG OF SOIL BORING: MW12

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

CLIENT Exxon Mobil	SITE NUMBER 7-3399	LOCATION 2991 Hopyard Rd. Pleasanton, CA
DRILLING AND SAMPLING METHODS Borehole cleared to 4 feet bgs using a hand auger. Drilled with a Sonic Drill Rig with 8.33" OD Casing. Sampled with a 6.285" OD X 10-foot sampler.		
WATER LEVEL	51.9	
TIME	0914	
DATE	8/22/00	
REFERENCE	TOC	
		DRILLING START TIME: 8/15/00 FINISH TIME: 8/17/00

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				Asphalt (2.5")	
							DESCRIPTION BY: H. Barry and B. Campbell	
					0		ASPHALT (2.5")	
					1	GW	SANDY, CLAYEY GRAVEL (GW): dark grayish brown (2.5Y 4/2), well graded, medium cementation, damp, subangular to subrounded gravel to 1.5", fine to coarse sand.	
					2	CL	SILTY CLAY (CL): olive brown (2.5Y 4/3), medium plasticity, medium stiff, damp; fine to coarse sand, some subangular gravel to 1".	
					3			
					4			
					5			
					6	ML	CLAYEY SILT (ML): dark yellowish brown (10YR 4/4), soft, low plasticity, damp; some clay, rare fine sand.	
					7			
					8			
					9			
					10	CL	SILTY CLAY (CL): olive (5Y 4/3), medium to high plasticity, stiff, damp.	
					11			
					12		SAME: olive yellow mottling, increase in silt content.	
					13	ML	CLAYEY SILT (ML): olive (5Y 4/3), low plasticity to nonplastic, firm; some fine sand.	
					14			
					15			
					16	CL	CLAY (CL): olive gray (5Y 4/2), medium plasticity, firm to hard, damp; became silty at 16ft, yellowish brown (10YR 5/4) mottling.	
					17			
					18			
					19	CL		
					20	CL	CLAY (CL): dark olive gray (5Y 3/2), hard, medium plasticity, damp.	

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW12	
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING					
					21	CL	SILTY CLAY (CL): olive gray (5Y 4/2), soft, medium plasticity, damp; firm at 20.5'.	
					22			
					23			
					24			SAME: soft.
					25			
					26	CL		
					27			SAME: color changes to olive (5Y 5/3), firm.
					28			
					29	CL		CLAY (CL): olive gray (5Y 4/2), medium plasticity, firm to hard, damp; became sandy between 28-29, fine sand.
					30			
					31	CL		SANDY CLAY (CL): olive (5Y 5/3), soft, low plasticity, damp, fine sand.
					32			
					33			
					34	CL		SILTY CLAY (CL): grayish brown (2.5Y 5/2), hard, medium plasticity, damp.
					35			
					36			SAME: rare well-rounded gravel to 0.5".
					37	CL		SANDY CLAY (CL): light olive brown (2.5Y 5/3), firm, nonplastic, damp; fine to medium sand, rare subrounded gravel to 0.25".
					38			
					39			
					40	SM		SILTY SAND WITH GRAVEL (SM): pale olive (5Y 6/3), weak cementation, subrounded to angular gravel clasts up to 2cm, nonplastic fines, moist.
					41			
					42			
					43			
					44	GW		GRAVEL WITH SAND (GW): olive (5Y 5/3), well graded, medium to coarse sand, subrounded gravel clasts up to 8cm, wet, weak, nonplastic fines; minor silt.
					45			

Zone 1



CLIENT

Exxon Mobil

SITE NUMBER

7-3399

LOCATION

2991 Hopyard Rd.
Pleasanton, CA

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW12								
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING												
					46		GRAVEL WITH SAND (GW): olive (5Y 5/3), well graded, medium to coarse sand, subrounded gravel clasts up to 8cm, wet, weak, nonplastic fines; minor silt.								
					47			SAME: saturated, subrounded to rounded gravel to 8cm.							
					48										
					49										
					50										
					51										
					52										
					53									SILTY CLAY (CL): pale olive (5Y 6/3), white stringers, hard, low plasticity, damp.	
					54										SILT WITH MINOR CLAY (ML): olive (5Y 5/4), soft, low plasticity, damp.
					55										
					56										
					57										
					58										
					59										
					60										
					61										
					62										
					63										
					64										
					65										
					66										
					67										
					68										
					69										
					70										

Zone 1



Zone 2



CLIENT

Exxon Mobil

SITE NUMBER

7-3399

LOCATION

2991 Hopyard Rd.
Pleasanton, CA

INCHES

DRIVEN

RECOVER

BLOWS/6"
SAMPLER

PID
READING

WELL
DETAIL

DEPTH
(feet)

GRAPHIC
LOG

LOG OF SOIL BORING:

MW12

71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95

CL

CL

CL

SP-SM

CL

SILTY CLAY (CL): light olive brown (2.5Y 5/6), firm to hard, medium plasticity, damp; white stringers from 72 to 75.5; some white spots visible at variable depths.

SAME: rare subrounded gravel to 4cm at 79'.

SAME: olive (5Y 4/3) mottling starting at 80'.

SAME: test at 85' -> dry strength = high.

SAME: only minor mottling below 88'; becomes sandy below 88'.

SAND WITH SILT (SP-SM): olive (5Y 4/3), poorly graded, weak, fine sand, low plastic fines, wet.

SILTY CLAY (CL): light olive brown (2.5Y 5/6), firm to hard, medium plasticity, damp; some white spots visible at variable depths.



CLIENT

Exxon Mobil

SITE NUMBER

7-3399

LOCATION

2991 Hopyard Rd.
Pleasanton, CA

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW12	
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING					
					96	 CL	<p>SILTY CLAY (CL): light olive brown (2.5Y 5/6), firm to hard, medium plasticity, damp; some white spots visible at variable depths.</p>	
					97			
					98			<p>SAME: color change to pale yellow (5Y 7/3) below 98'.</p>
					99			
					100			<p>SAME: grades to very hard below 100'.</p>
					101			
					102			
					103			
					104			
					105		 CL	<p>SAME: grades to firm between 105-108'; hard below 108'.</p>
					106			
					107			
					108			
					109	 CL	<p>SAME: minor very fine sand content below 109'.</p>	
					110			
					111			
					112			
					113			
					114			
					115	 SP	<p>SAND (SP): dark olive brown (2.5Y 3/3), poorly graded, medium to coarse sand, gravel content increases from none at 114.5 to GW at 118.5', weak, minor silt content, moist, subrounded gravel clasts up to 5cm.</p>	
					116			
					117			
					118			
					119	 GW	<p>GRAVEL WITH SAND (GW): dark olive brown (2.5Y 3/3), well graded, weak, subrounded to subangular clasts up to 6.5cm, nonplastic fines, moist.</p>	
					120			

Zone 3



CLIENT

Exxon Mobil

SITE NUMBER

7-3399

LOCATION

2991 Hopyard Rd.
Pleasanton, CA

INCHES

DRIVEN

RECOVER

BLOWS/6"
SAMPLER

PID
READING

WELL
DETAIL

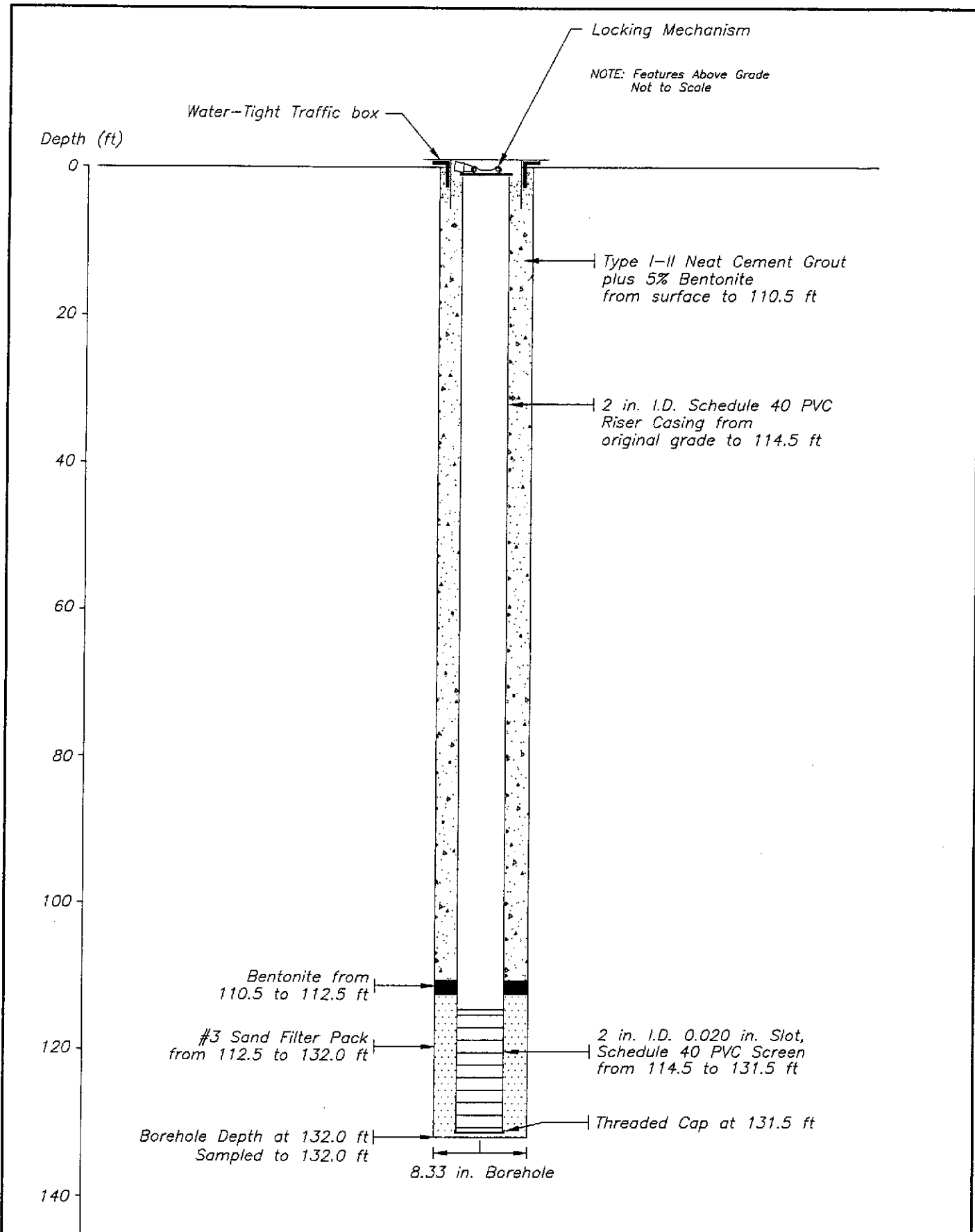
DEPTH
(feet)

GRAPHIC
LOG

LOG OF SOIL BORING:

MW12

					121	GW	GRAVEL WITH SAND (GW): dark olive brown (2.5Y 3/3), well graded, weak, subrounded to subangular clasts up to 6.5cm, nonplastic fines, moist.
					122	CL/ML	CLAYEY SILT (CL/ML): olive brown (2.5Y 5/6), soft, low plasticity, damp; some medium to coarse sand.
					123		
					124		
					125		
					126	SP	SAND (SP): dark olive brown (2.5Y 3/3), poorly graded medium sand, weak, nonplastic fines, moist.
					127		
					128	GW	GRAVEL WITH SAND (GW): light olive brown (2.5Y 5/4), well graded, weak, subrounded to subangular clasts up to 5cm, nonplastic fines, moist.
					129		
					130	GW	SAME: very coarse gravel, subrounded clasts up to 8cm.
					131	GW	GRAVEL WITH SAND (GW): light olive brown (2.5Y 5/4), well graded, weak, subrounded to subangular clasts up to 5cm, nonplastic fines, moist.
					132		Boring terminated at 132 feet below ground surface. Sampled to 132 feet below ground surface.
					133		
					134		
					135		
					136		
					137		
					138		
					139		
					140		
					141		
					142		
					143		
					144		
					145		





LOG OF SOIL BORING: **MW12A**

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

CLIENT Exxon Mobil	SITE NUMBER 7-3399	LOCATION 2991 Hopyard Rd. Pleasanton, CA
DRILLING AND SAMPLING METHODS Borehole cleared to 4 feet bgs using a hand auger. Drilled with a Sonic Drill Rig with 8.33" OD Casing. Sampled with a 6.285" OD X 10-foot sampler.		
WATER LEVEL	57.04	DRILLING
TIME	1639	START TIME
DATE	8/30/00	FINISH TIME
REFERENCE	TOC	DATE
		8/28/00
		8/30/00

INCHES		WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	SURFACE CONDITIONS Asphalt
DRIVEN	RECOVER				
			0		NO SAMPLE COLLECTED FROM 0-110' BGS. REFER TO LOG OF MW12 FOR 0-110' BGS (included here in italics).
			1		<i>ASPHALT (2.5")</i>
			2		<i>SANDY, CLAYEY GRAVEL (GW): dark grayish brown (2.5Y 4/2), well graded, medium cementation, damp, subangular to subrounded gravel to 1.5", fine to coarse sand.</i>
			3		<i>SILTY CLAY (CL): olive brown (2.5Y 4/3), medium plasticity, medium stiff, damp; fine to coarse sand, some subangular gravel to 1".</i>
			4		
			5		
			6		<i>CLAYEY SILT (ML): dark yellowish brown (10YR 4/4), soft, low plasticity, damp; some clay, rare fine sand.</i>
			7		
			8		
			9		
			10		<i>SILTY CLAY (CL): olive (5Y 4/3), medium to high plasticity, stiff, damp.</i>
			11		
			12		<i>SAME: olive yellow mottling, increase in silt content.</i>
			13		<i>CLAYEY SILT (ML): olive (5Y 4/3), low plasticity to nonplastic, firm; some fine sand.</i>
			14		
			15		
			16		<i>CLAY (CL): olive gray (5Y 4/2), medium plasticity, firm to hard, damp; became silty at 16ft, yellowish brown (10YR 5/4) mottling.</i>
			17		
			18		
			19		
			20		<i>CLAY (CL): dark olive gray (5Y 3/2), hard, medium plasticity, damp.</i>

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW12A
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				
					21	CL	<i>SILTY CLAY (CL): olive gray (5Y 4/2), soft, medium plasticity, damp; firm at 20.5'.</i>
					22		
					23		
					24		<i>SAME: soft.</i>
					25		
					26	CL	
					27		<i>SAME: color changes to olive (5Y 5/3), firm.</i>
					28		
					29	CL	<i>CLAY (CL): olive gray (5Y 4/2), medium plasticity, firm to hard, damp; became sandy between 28-29, fine sand.</i>
					30		
					31	CL	<i>SANDY CLAY (CL): olive (5Y 5/3), soft, low plasticity, damp, fine sand.</i>
					32		
					33		
					34	CL	<i>SILTY CLAY (CL): grayish brown (2.5Y 5/2), hard, medium plasticity, damp.</i>
					35		
					36		<i>SAME: rare well-rounded gravel to 0.5".</i>
					37	CL	<i>SANDY CLAY (CL): light olive brown (2.5Y 5/3), firm, nonplastic, damp; fine to medium sand, rare subrounded gravel to 0.25".</i>
					38		
					39		
					40	SM	<i>SILTY SAND WITH GRAVEL (SM): pale olive (5Y 6/3), weak cementation, subrounded to angular gravel clasts up to 2cm, nonplastic fines, moist.</i>
					41		
					42		
					43	GW	<i>GRAVEL WITH SAND (GW): olive (5Y 5/3), well graded, medium to coarse sand, subrounded gravel clasts up to 8cm, wet, weak, nonplastic fines; minor silt.</i>
					44		
					45		



CLIENT

Exxon Mobil

SITE NUMBER

7-3399

LOCATION

2991 Hopyard Rd.
Pleasanton, CA

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW12A
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				
					46		<p>GRAVEL WITH SAND (GW): olive (5Y 5/3), well graded, medium to coarse sand, subrounded gravel clasts up to 8cm, wet, weak, nonplastic fines; minor silt.</p> <p>SAME: saturated, subrounded to rounded gravel to 8cm.</p> <p>SILTY CLAY (CL): pale olive (5Y 6/3), white stringers, hard, low plasticity, damp.</p> <p>SILT WITH MINOR CLAY (ML): olive (5Y 5/4), soft, low plasticity, damp.</p> <p>SILTY CLAY (CL): olive (5Y 5/4), firm to hard, medium-high plasticity, damp.</p> <p>GRAVELLY CLAY (CL): olive (2.5Y 5/3), firm, medium plasticity, subrounded to subangular gravel clasts up to 5.5cm, damp; minor coarse sand.</p> <p>SILTY GRAVEL WITH SAND (GW-GM): olive (5Y 5/4), well graded, weak, medium to coarse sand, subrounded gravel clasts up to 4cm, nonplastic fines, wet.</p> <p>SAND WITH GRAVEL (SW): olive (5Y 4/3), well graded, medium to coarse sand, subrounded clasts up to 4.5cm, weak, nonplastic fines, wet.</p> <p>SAND WITH GRAVEL (SP/GW): olive (5Y 4/3), poorly graded, subrounded gravel clasts up to 3cm, weak, nonplastic fines, wet; grades to almost GW below 67.5'.</p> <p>SILTY CLAY (CL): light olive brown (2.5Y 5/6), firm to hard, medium plasticity, damp; white stringers from 72 to 75.5; some white spots visible at variable depths.</p>
					47		
					48		
					49		
					50		
					51		
					52		
					53		
					54		
					55		
					56		
					57		
					58		
					59		
					60		
					61		
					62		
					63		
					64		
					65		
					66		
					67		
					68		
					69		
					70		



CLIENT
Exxon Mobil

SITE NUMBER
7-3399

LOCATION
2991 Hopyard Rd.
Pleasanton, CA

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW12A
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PIVOT READING				
					71		<p>SILTY CLAY (CL): light olive brown (2.5Y 5/6), firm to hard, medium plasticity, damp; white stringers from 72 to 75.5; some white spots visible at variable depths.</p> <p><i>SAME: rare subrounded gravel to 4cm at 79'.</i></p> <p><i>SAME: olive (5Y 4/3) mottling starting at 80'.</i></p> <p><i>SAME: test at 85' -> dry strength = high.</i></p> <p><i>SAME: only minor mottling below 88'; becomes sandy below 88'.</i></p> <p>SAND WITH SILT (SP-SM): olive (5Y 4/3), poorly graded, weak, fine sand, low plastic fines, wet.</p> <p>SILTY CLAY (CL): light olive brown (2.5Y 5/6), firm to hard, medium plasticity, damp; some white spots visible at variable depths.</p>
					72		
					73		
					74		
					75		
					76		
					77		
					78		
					79		
					80		
					81		
					82		
					83		
					84		
					85		
					86		
					87		
					88		
					89		
					90		
				91			
				92			
				93			
				94			
				95			

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW12A
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				
					96		<p>SILTY CLAY (CL): light olive brown (2.5Y 5/6), firm to hard, medium plasticity, damp; some white spots visible at variable depths.</p> <p>SAME: color change to pale yellow (5Y 7/3) below 98'.</p> <p>SAME: grades to very hard below 100'.</p> <p>SAME: grades to firm between 105-108'; hard below 108'.</p> <p>SAME: minor very fine sand content below 109'.</p>
					97		
					98		
					99		
					100		
					101		
					102		
					103		
					104		
					105		
					106	<p>MW12 LOG BETWEEN 0-110' BELOW GROUND SURFACE MW12A LOG BELOW 110' BELOW GROUND SURFACE</p>	<p>SILTY CLAY (CL): olive (5Y 5/4), firm to hard, medium plasticity, damp; minor very fine sand content below 110.5'; minor coarse sand below 111.5'; sand content increases with depth.</p>
					107		
					108		
					109		
					110		
					111	<p>SAND (SP): dark olive brown (2.5Y 3/3), poorly graded, medium to coarse sand, gravel content increases from none at 115.5' to GW at 118.5', weak minor nonplastic silt, moist, subrounded gravel clasts to 5cm.</p> <p>GRAVEL WITH SAND (GW): dark olive brown (2.5Y 3/3), well graded, weak, subrounded to subangular clasts up to 6.5cm, nonplastic fines, weak.</p>	<p>SAND (SP): dark olive brown (2.5Y 3/3), poorly graded, medium to coarse sand, gravel content increases from none at 115.5' to GW at 118.5', weak minor nonplastic silt, moist, subrounded gravel clasts to 5cm.</p> <p>GRAVEL WITH SAND (GW): dark olive brown (2.5Y 3/3), well graded, weak, subrounded to subangular clasts up to 6.5cm, nonplastic fines, weak.</p>
					112		
					113		
					114		
					115		
					116		
					117		
					118		
					119		
					120		



CLIENT

Exxon Mobil

SITE NUMBER

7-3399

LOCATION

2991 Hopyard Rd.
Pleasanton, CA

INCHES

DRIVEN

RECOVER

BLOWS/6"
SAMPLER

PID
READING

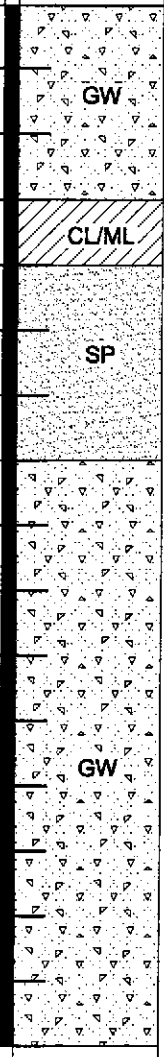
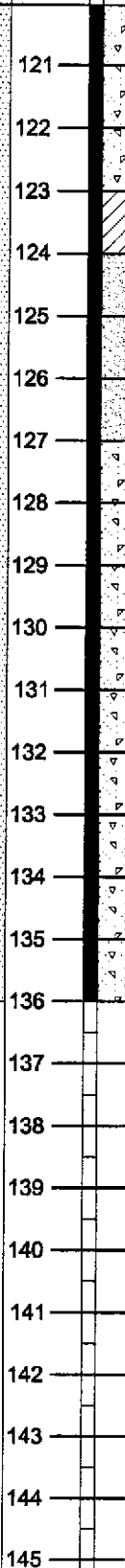
WELL
DETAIL

DEPTH
(feet)

GRAPHIC
LOG

LOG OF SOIL BORING:

MW12A



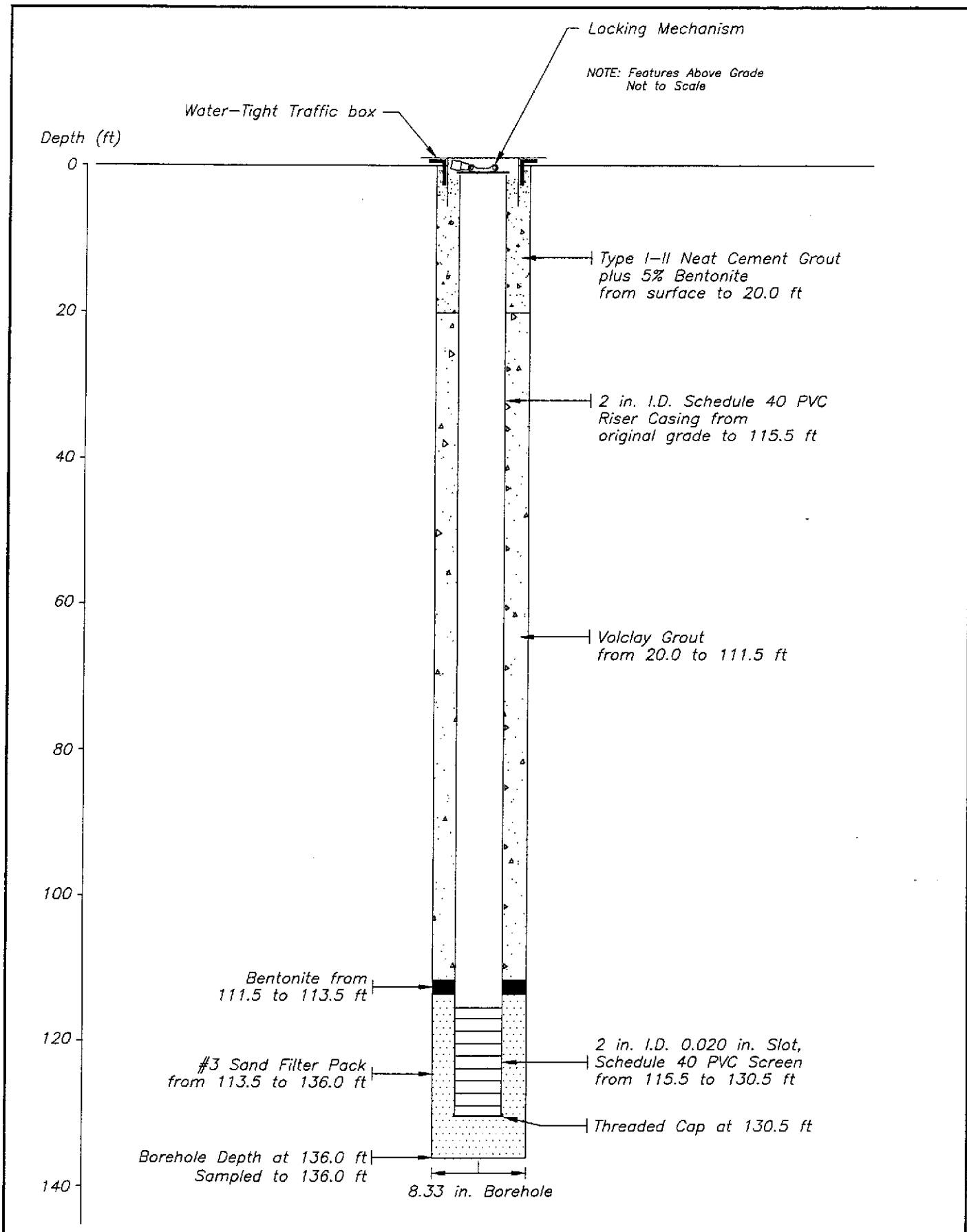
GRAVEL WITH SAND (GW): dark olive brown (2.5Y 3/3), well graded, weak, subrounded to subangular clasts up to 6.5cm, nonplastic fines, weak.

CLAYEY SILT (CL/ML): olive brown (2.5Y 5/6), soft, low plasticity, damp, some medium to coarse sand.

SAND (SP): dark olive brown (2.5Y 3/3), poorly graded, medium sand, weak nonplastic fines, moist.

GRAVEL WITH SAND (GW): light olive brown (2.5Y 5/4), well-graded, weak, subrounded to subangular clasts up to 13cm, nonplastic fines, moist.

Boring terminated at 136 feet below ground surface. Sampled to 136 feet below ground surface.





LOG OF SOIL BORING: **MW13**

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

CLIENT Exxon Mobil	SITE NUMBER 7-3399	LOCATION 2991 Hopyard Rd. Pleasanton, CA	
DRILLING AND SAMPLING METHODS Borehole cleared to 4 feet bgs using a hand auger. Drilled with a Sonic Drill Rig with 8.33" OD Casing. Sampled with a 6.285" OD X 10-foot sampler.			
WATER LEVEL	44.63'	DRILLING	
TIME	0755	START TIME	FINISH TIME
DATE	8/21/00	DATE	DATE
REFERENCE	BGS	8/18/00	8/23/00

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				Asphalt (2.5")	
							DESCRIPTION BY: B. Campbell	
					0		ASPHALT (2.5")	
					1		SANDY CLAYEY GRAVEL WITH SAND (GC): dark grayish brown, (2.5Y 4/2), medium cementation, damp, subangular to subrounded gravel to 1.5", fine to coarse sand.	
					2		SILTY CLAY (CL): olive brown (2.5Y 4/3), medium plasticity, medium stiff, fine to coarse sand, some subangular gravel to 1".	
					3			
					4			
					5		CLAYEY SILT (ML): dark yellowish brown (10YR 4/4), soft, low plasticity, damp, some clay, rare fine sand.	
					6			
					7			
					8			
					9			
					10		SILTY CLAY (CL): olive (5Y 4/3), medium to high plasticity, stiff, damp.	
					11		SAME: increase in silt content.	
					12			
					13		CLAYEY SILT (ML): olive (5Y 4/3), low to medium plasticity, firm, some fine sand, damp.	
					14			
					15			
					16		CLAY (CL): olive gray (5Y 4/2), medium plasticity, firm to hard, damp; became silty at 16ft; yellowish brown (10YR 5/4) mottling.	
					17			
					18			
					19		CLAY (CL): dark olive gray (5Y 3/2), hard, medium plasticity, damp.	
					20			

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW13	
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING					
					21		SILTY CLAY (CL): olive gray (5Y 4/2), soft, medium plasticity, damp; firm at 20.5'.	
					22		CL	SAME: soft at 23'.
					23			CL
					24		CL	
					25			CL
					26		CL	
					27			CL
					28		CL	
					29			CL
					30		CL	
					31			CL
					32		CL	
					33			CL
					34		CL	
					35			CL
					36		CL	
					37			CL
					38		SM	
					39			SM
					40		GW	
					41			GW
				42	GW			
				43		GW	GRAVEL WITH SAND (GW): olive (5Y 5/3), well graded, medium to coarse sand, subrounded gravel clasts up to 8cm, wet, weak, nonplastic fines, minor silt.	
				44	GW			
				45		GW		

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW13		
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING						
					46		<p>GRAVEL WITH SAND (GW): olive (5Y 5/3), well graded, medium to coarse sand, subrounded gravel clasts up to 8cm, wet, weak, nonplastic fines, minor silt.</p>		
					47				
					48				
					49				
					50				
					51				
					52				<p>SILTY CLAY (CL): pale olive (5Y 6/3), white stringers, hard, low plasticity, damp.</p>
					53				
					54				<p>SILT WITH MINOR CLAY (ML): olive (5Y 5/4), soft, low plasticity, damp.</p>
					55				
					56		<p>SILTY CLAY (CL): olive (5Y 5/4), firm to hard, medium to high plasticity, damp.</p>		
					57				
					58		<p>GRAVELLY CLAY (CL): olive (2.5Y 5/3), firm, medium plasticity, subrounded to subangular gravel clasts up to 3cm, damp; minor coarse sand.</p>		
					59				
					60		<p>SILTY GRAVEL WITH SAND (GW-GM): olive (5Y 4/4), well graded, weak, medium to coarse sand, subrounded gravel clasts up to 4cm, nonplastic fines, wet.</p>		
					61				
					62		<p>SAND (SP): small lens of SP similar to SW from 62.75-64.</p>		
					63				
					64		<p>SAND WITH GRAVEL (SW): olive (5Y 4/3), well graded, medium to coarse sand, subrounded gravel clasts up to 4cm, nonplastic fines, wet.</p>		
					65				
					66		<p>SAND WITH GRAVEL (SP/GW): olive (5Y 4/3), interchanging layers of poorly graded sand lenses and well-graded gravel lenses, subrounded gravel clasts up to 4cm, weak, nonplastic fines.</p>		
					67				
					68		<p>SAND WITH GRAVEL (SP/GW): olive (5Y 4/3), interchanging layers of poorly graded sand lenses and well-graded gravel lenses, subrounded gravel clasts up to 4cm, weak, nonplastic fines.</p>		
					69				
					70		<p>SILTY CLAY (CL): light olive brown (2.5Y 5/6), firm to hard, medium plasticity, damp.</p>		
					71				

Zone 2



CLIENT

Exxon Mobil

SITE NUMBER

7-3399

LOCATION

2991 Hopyard Rd.
Pleasanton, CA

INCHES

DRIVEN

RECOVER

BLOWS/6"
SAMPLER

PID
READING

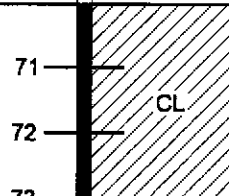
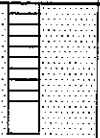
WELL
DETAIL

DEPTH
(feet)

GRAPHIC
LOG

LOG OF SOIL BORING:

MW13



71

72

73

74

75

76

77

78

79

80

81

82

83

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92

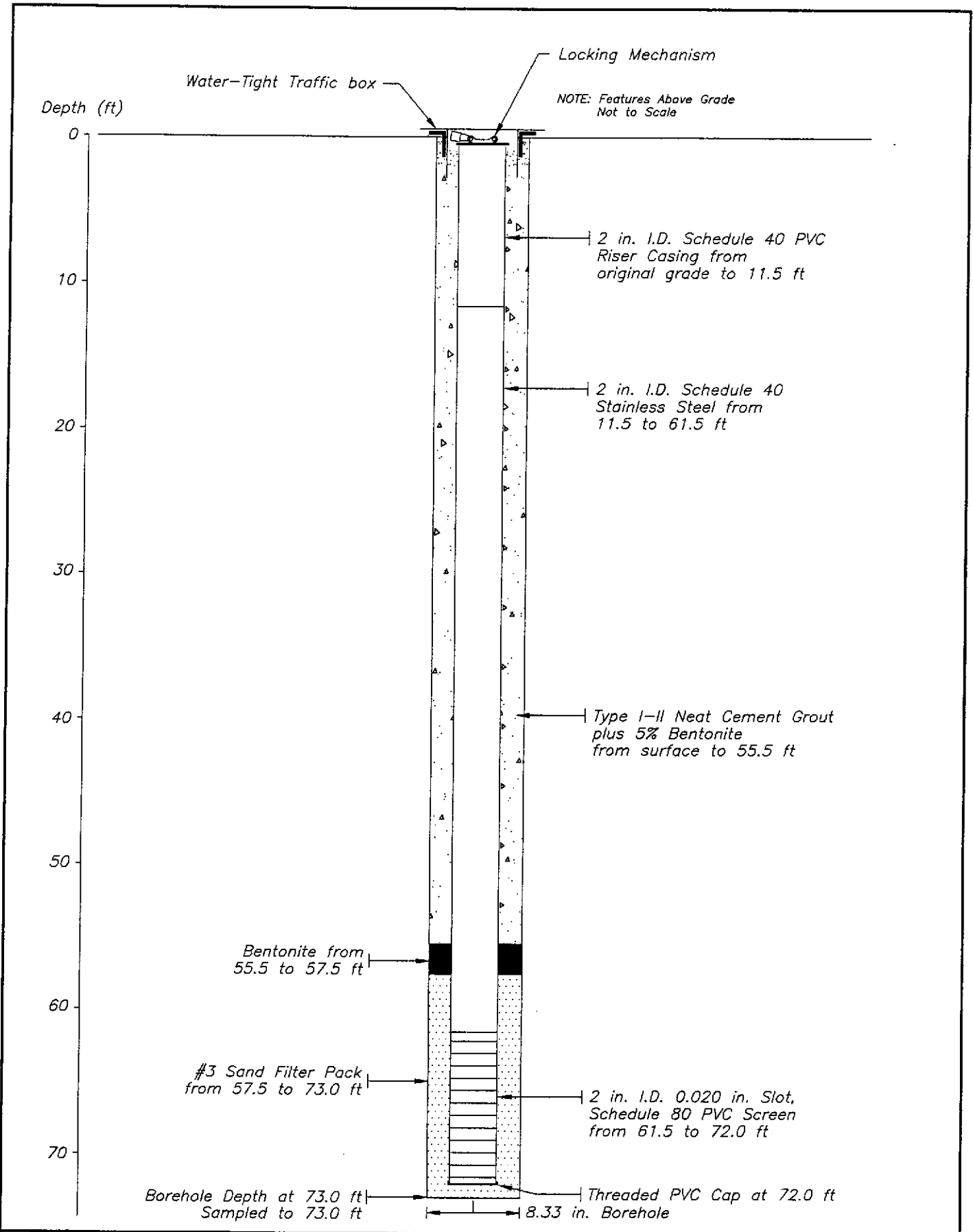
93

94

95

SILTY CLAY (CL): light olive brown (2.5Y 5/6), firm to hard, medium plasticity, damp.

Boring terminated at 73 feet below ground surface.
Sampled to 73 feet below ground surface.





LOG OF SOIL BORING: **MW14**

COORDINATES:

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

CLIENT Exxon Mobil	SITE NUMBER 7-3399	LOCATION 2991 Hopyard Rd. Pleasanton, CA
DRILLING AND SAMPLING METHODS Borehole cleared to 4 feet bgs using a hand auger. Drilled with a Sonic Drill Rig with 8.33" OD Casing. Sampled with a 6.285" OD X 10-foot sampler.		
WATER LEVEL	51.24	
TIME	1016	
DATE	8/30/00	
REFERENCE	TOC	
		DRILLING START TIME FINISH TIME
		DATE 8/22/00 DATE 8/29/00

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				Asphalt (2.5")	
							DESCRIPTION BY: B. Campbell	
					0		ASPHALT (2.5")	
					1		GRAVEL WITH SAND (GW): brown (7.5YR 5/4), well graded, fine to coarse sand, subrounded to subangular clasts up to 3cm, nonplastic fines, damp.	
					2			
					3		SILTY CLAY (CL): black (7.5YR, 2.5/1), soft, medium plasticity, moist.	
					4			
					5		SAND (SP): dark greenish gray (4/1), poorly graded, very fine (almost silt size grains), weak, low plasticity, moist.	
					6		CLAYEY SILT (ML): olive (5Y 4/3), soft, low to medium plasticity, slow dilatency, moist.	
					7			
					8			
					9		CLAY (CL): dark olive gray (5Y 3/2), soft to firm, low silt content, medium plasticity, moist.	
					10			
					11		CLAYEY SAND (SC): dark olive gray (5Y 3/2), soft to firm, low plasticity, moist.	
					12			
					13		CLAY (CL): dark olive gray (5Y 3/2), soft to firm, low silt content, medium plasticity, moist.	
					14		CLAYEY SILT (ML): olive (5Y 4/3), soft, low to medium plasticity, slow dilatency, moist.	
					15		CLAY (CL): black (5Y 2.5/1), black streaks (carbon), iron oxide staining, firm to hard, medium to high plasticity, moist.	
					16			
					17			
					18			
					19			
					20			

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW14
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				
					21	CL	SAME: Less iron oxide staining. From 21-22', soft, medium plasticity. From 22' down, firm.
					22		
					23		
					24	CL	CLAY (CL): olive (5Y 4/4), firm, medium plasticity, moist; minor silt content.
					25		
					26		
					27		
					28	CL	SAME (CL): color change to dark olive gray (5Y 3/2); change to soft to firm.
					29		
					30		
					31		
					32	CL	SAME (CL): other mottled colors present including bluish, greenish, and brownish colors.
					33		
					34		
					35		
					36	CL	SAME (CL): color change to olive (5Y 5/4); change to firm to hard.
					37		
					38	SP/SM	SAND WITH SILT AND GRAVEL (SP/SM): olive (5Y 5/4), poorly graded, weak cementation, subrounded clasts up to 1.5cm, nonplastic fines, moist.
					39		
					40	SP	SAND (SP): olive brown (2.5Y 4/4), poorly graded, some silt, fine sand content, subrounded gravel clasts up to 3/4", minor gravel, nonplastic fines, moist.
					41		
					42	GW	GRAVEL WITH SAND (GW): brown (10YR 4/3), well graded, weak, subangular to subrounded clasts up to 4cm, nonplastic fines, moist, fine to coarse sand; saturated below 43'.
					43		
					44	GW	SAME (GW): higher sand content, almost (SP); poorly graded sand with gravel.
					45		
							SAME (GW): low sand content, almost all gravels.

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW14
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				
					46		
					47	GW	SAME (GW): low sand content, almost all gravels.
					48		
					49		
					50		
					51	GW	SAME (GW): at 49.5, subrounded to subangular clasts of 6cm found.
					52		
					53	GW-GM	GRAVEL WITH SILT AND SAND (GW-GM): yellowish brown (10YR 5/4), well graded, fine to coarse sand, subrounded to subangular gravel clasts up to 5cm, weak, nonplastic fines, saturated.
					54		
					55		
					56	CL	SILTY CLAY (CL): olive color (5Y 5/4), firm, medium plasticity, moist, carbonate stringers.
					57		
					58		
					59	CL	SAME: color change to dark greenish gray (4/1), silty clay with carbonate nodules, moist, medium plasticity.
					60		
					61	CL	SAME: changes from firm to hard.
					62		
					63		
					64	CL	SAME: color change to olive (5Y 5/4).
					65		
					66		
					67	ML	CLAYEY SILT (ML): olive (5Y 5/4), soft, low plasticity, moist, minor fine sand.
					68		
					69		
					70	SM	SILTY SAND WITH GRAVEL (SM): olive (5Y 5/6), medium to coarse sand, fine gravel up to 0.8cm, weak cementation, subangular, nonplastic fines, wet.

INCHES

DRIVEN

RECOVER

BLOWS/6"
SAMPLER

PID
READING

WELL
DETAIL

DEPTH
(feet)

GRAPHIC
LOG

LOG OF SOIL BORING:

MW14

DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING	WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING:
					71		SAME: minor lenses (<1") of medium poorly graded sand (SP).
					72		
					73	SM	
					74		
					75		SAME: saturated below 73'.
					76		
					77	GW	GRAVEL WITH SAND (GW): olive brown (2.5Y 4/4), well graded, coarse sand, subangular to subrounded gravel clasts up to 3.5cm, weak cementation, nonplastic fines, saturated.
					78	CL	SILTY CLAY WITH SAND (CL): light olive brown (2.5Y 5/6), hard to very hard, medium plasticity, moist, small charcoal deposits, very minor carbonate deposits.
					79		
					80	CL	SAME: changes from hard to soft/firm.
					81		
					82		
					83	CL	SAME: minor sand, charcoal absent, an increase in carbonate deposits, hard.
					84		
					85		
					86	CL	SAME: minor iron oxide.
					87		
					88	CL	SAME.
					89		
					90	CL	SAME: softer, change from hard to soft.
					91		
					92		
					93	CL	SILTY CLAY (CL): dark greenish gray (2 gray 4/1), firm, medium plasticity, moist, carbonate nodules present.
					94		
					95	SP-SM	SAND WITH SILT (SP-SM): olive (5Y 4/3), poorly graded, weak, fine sand, low plasticity, wet.



CLIENT

Exxon Mobil

SITE NUMBER

7-3399

LOCATION

2991 Hopyard Rd.
Pleasanton, CA

INCHES

DRIVEN

RECOVER

BLOWS/6"
SAMPLER

PID
READING

WELL
DETAIL

DEPTH
(feet)

GRAPHIC
LOG

LOG OF SOIL BORING:

MW14

96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120

CL

CL

CL

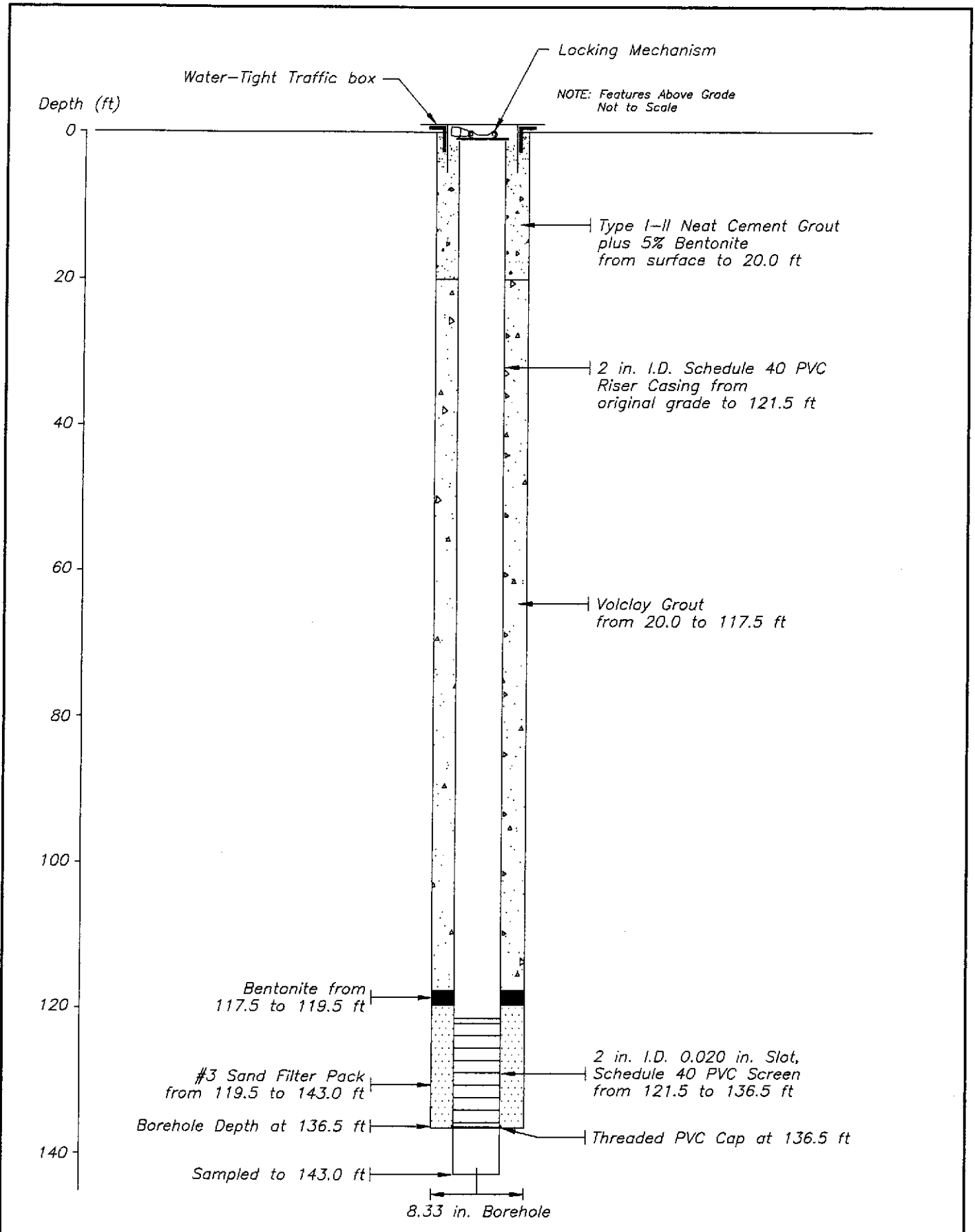
ML

SILTY CLAY (CL): olive (5Y 5/3), firm to hard, medium plasticity, moist, carbonate and iron oxide present; small sand lens at varying depths (98').

SANDY SILT WITH GRAVEL (ML): olive (5Y 5/4), soft to very soft, low plasticity, minor fine gravel, moist.

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW14
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				
					121	ML	SANDY SILT WITH GRAVEL (ML): olive (5Y 5/4), soft to very soft, low plasticity, minor fine gravel, moist.
					122		
					123	SM	SILTY SAND (SM): olive (5Y 4/3), wet, fine sand, moderate cementation, nonplastic fines.
					124		
					125		
					126		
					127	GW	GRAVEL WITH SAND (GW): dark olive brown (2.5Y 3/3), weak, well graded, subrounded to subangular clasts up to 6.5cm, nonplastic fines, wet, iron oxide nodules.
					128		
					129		
					130	GC	CLAYEY GRAVEL WITH SAND (GC): light olive brown (2.5Y 5/6), medium to coarse sand, angular to subrounded gravel up to 4cm, medium plasticity, saturated.
					131		
					132		
					133	GW	GRAVEL WITH SAND (GW): well graded gravel with sand, medium to coarse sand, subangular to subrounded gravel clasts up to 6.5cm, weak cementation, nonplastic, wet.
					134		
					135		
					136		
					137		
					138		
					139	SW-SM	SAND WITH SILT AND GRAVEL (SW-SM): light olive brown (2.5Y 5/4), well graded, medium to coarse sand, subangular to subrounded gravel clasts up to 2.5cm, weak, nonplastic fines, wet.
					140		
					141		
					142	GW	GRAVEL WITH SAND (GW): light olive brown (2.5Y 5/4), well graded, coarse sand, subrounded clasts up to 6.5cm, weak, nonplastic fines, wet.
					143	GM	SILTY GRAVEL WITH SAND (GM): light olive brown (2.5Y 5/6), well graded gravel, high clay content almost to CL/ML matrix, subangular to subrounded gravel clasts to 3 inches, moderate cementation, low to medium plasticity fines, moist.
					144		
					145		

—Boring terminated at 136.5 feet below ground surface.
Sampled to 143 feet below ground surface.



Appendix E

Well Development Forms

Client: EXXON Station No.: 7-3399

Project No.: TM3399.3
~~TM3399.3~~ Task No.: 3

Sample Team: John Ortega / KEIL JONES

Date: 9/21/00

No. of Drums on Site: Water Soil Empty

• Summary:

ON SITE 1200

cover safety a traffic problem

Set up traffic control

open MW-14 allow to equilibrate

gauge = Depth of H₂O * Depth of Bottom (ATTN TO NOTES)

Purge well with pump / purge after every casing volume

Purge well cheer

Cheer up and cheer street.

OFF STREET AT 1445

Set on MW-12 + MW-13

open ~~gauge~~ allow to equilibrate and gauge (see notes)

Purge + Surge ~~both~~ Surge + Purge (see notes)

Close wells + cheer up

Sever side

Purge water will be disposed at Romac

off site 1630

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 7-3399

Well No: MW-13

Date: 9/20/00

Project No: TM3399.3 Well Dev

Personnel: JOHN ORTEGA 14/2

GAUGING DATA

Water Level Measuring Method:

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)
	73.0	45.25	27.75	1	2	4	6	5.0	50.00
				0.04	0.16	0.64	1.44		

PURGING DATA

Purge Method: Submersible Pump

Purge Depth:

Screen

Purge Rate:

(gpm)

Time	1550	1552	1554	1556	1558	1600
Volume Purge (gal)	5	10	15	20	25	30
Temperature (C)	20.4	20.3	20.2	20.3	20.3	20.4
pH	7.03	7.02	7.03	7.01	7.01	7.01
Spec. Cond. (umhos)	2.08	2.08	2.09	2.09	2.09	2.09
Turbidity/Color						
Odor (Y/N)	N	N	N	N	N	N
Casing Volumes	Silty	Silty	Silty	Silty	Silty	Cloudy
Dewatered (Y/N)	N	N	N	N	N	N

Comments/Observations: Surge after every casing volume.

START Depth of Batter 66.10

First purge HEAD Batter 71.92

SAMPLING DATA

Time Sampled:

Approximate Depth to Water During Sampling: (feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
EX1	3	Voa	HCL	40 ml		TPH-g, BTEX, MTBE

Total Purge Volume: 90.00 (gallons)

Disposal: ROMIC

Weather Conditions: Clear

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

Well Head Conditions Requiring Correction: None

Problems Encountered During Purging and Sampling: None

Comments:

GROUNDWATER PURGE AND SAMPLE

Project Name: *Exxon 7-3399* Well No: *mw-13* Date: *9/20/00*
 Project No: *TM3399.3* Personnel: *30* *page 2 of 2*

GAUGING DATA

Water Level Measuring Method:

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)
				1	2	4	6		
<i>Drilled to</i> <i>73.00</i>	<i>73.00</i>	<i>45.25</i>	<i>27.75</i>	<i>X</i> ¹	<i>2</i>	<i>4</i>	<i>6</i>	<i>5.0</i>	<i>50.00</i>
				0.04	0.16	0.64	1.44		

PURGING DATA

Purge Method: *Submersible Pump*

Purge Depth:

Screen

Purge Rate:

(gpm)

Time	1602	1604	<i>(Large diagonal line through the table)</i>			
Volume Purge (gal)	<i>35</i>	<i>40</i>				
Temperature (C)	<i>20.2</i>	<i>20.2</i>				
pH	<i>6.99</i>	<i>6.98</i>				
Spec. Cond. (umhos)	<i>2.08</i>	<i>2.08</i>				
Turbidity/Color						
Odor (Y/N)	<i>N</i>	<i>N</i>				
Casing Volumes	<i>Clear</i>	<i>Clear</i>				
Dewatered (Y/N)	<i>N</i>	<i>N</i>				

Comments/Observations:

Pump would not work after 50-gal volume

SAMPLING DATA

Time Sampled:

Approximate Depth to Water During Sampling:

(feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
<i>EX1</i>	<i>5</i>	<i>Voa</i>	<i>HCL</i>	<i>40 ml</i>		<i>TPH-g, BTEX, MTBE</i>

Total Purge Volume:

(gallons)

Disposal:

RMFC

Weather Conditions:

Condition of Well Box and Casing at Time of Sampling:

Well Head Conditions Requiring Correction:

Problems Encountered During Purging and Sampling:

Comments:

Well Dev

GROUNDWATER PURGE AND SAMPLE

Project Name: *Exxon 7-3399* Well No: *MW-12A* Date: *9/20/00*
 Project No: *TM3399.3* Personnel: *JO PJ 10/2*

GAUGING DATA

Water Level Measuring Method: _____ 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)
	<i>130.00</i>	<i>53.15</i>	<i>76.85</i>	<i>12.0</i>	<i>1</i>	<i>2</i>	<i>4</i>	<i>6</i>	<i>12.0</i>
				0.04	0.16	0.64	1.44		

PURGING DATA

Purge Method: *Submersible Pump* Purge Depth: _____ Screen _____ Purge Rate: _____ (gpm)

Time	1458	1502	1505	1508	1541	1515
Volume Purge (gal)	<i>12.0</i>	<i>24.0</i>	<i>36.0</i>	<i>48.0</i>	<i>60</i>	<i>72</i>
Temperature (C)	<i>21.4</i>	<i>20.0</i>	<i>20.0</i>	<i>20.1</i>	<i>20.1</i>	<i>20.0</i>
pH	<i>8.05</i>	<i>7.64</i>	<i>7.63</i>	<i>7.64</i>	<i>7.64</i>	<i>7.65</i>
Spec. Cond. (umhos)	<i>1.01</i>	<i>1.04</i>	<i>1.05</i>	<i>1.03</i>	<i>1.05</i>	<i>1.04</i>
Turbidity/Color	_____	_____	_____	_____	_____	_____
Odor (Y/N)	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>
Casing Volumes	<i>Silty</i>	<i>Silty</i>	<i>Silty</i>	<i>Silty</i>	<i>Silty</i>	<i>Silty</i>
Dewatered (Y/N)	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>

Comments/Observations:

Depth of Bottom Start 110.90 feet / *Surge well w/ pump*
After Purge Depth of Bottom 129.90 feet / *after casing case work*

SAMPLING DATA

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

Comments: _____

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
<i>EX1</i>	<i>3</i>	<i>Voa</i>	<i>HCL</i>	<i>40 ml</i>	_____	<i>TPH-g, BTEX, MTBE</i>

Total Purge Volume: *120.00* (gallons)

Disposal: *ROMIC*

Weather Conditions: *Clear*

Condition of Well Box and Casing at Time of Sampling: *Good*

Well Head Conditions Requiring Correction: *None*

Problems Encountered During Purging and Sampling: *None*

Comments: _____

well Dev.

GROUNDWATER PURGE AND SAMPLE

Project Name: *Exxon 7-3399* Well No: *MW-12A* Date: *9/20/00*
 Project No: *TM3399.3* Personnel:

GAUGING DATA *2-12*
 Water Level Measuring Method: _____ 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)
				1	2	4	6		
	<i>130.00</i>	<i>53.15</i>	<i>76.85</i>	<i>0.04</i>	<i>0.16</i>	<i>0.64</i>	<i>1.44</i>	<i>12.0</i>	<i>120.0</i>

PURGING DATA

Purge Method: *Submersible Pump* Purge Depth: _____ Screen _____ Purge Rate: _____ (gpm)

Time	1518	1521	1525	1528		
Volume Purge (gal)	<i>84.0</i>	<i>96.0</i>	<i>108.0</i>	<i>120.0</i>		
Temperature (C)	<i>19.9</i>	<i>19.9</i>	<i>20.0</i>	<i>20.0</i>		
pH	<i>7.64</i>	<i>7.63</i>	<i>7.61</i>	<i>7.61</i>		
Spec. Cond. (umhos)	<i>0.914</i>	<i>0.916</i>	<i>0.909</i>	<i>0.910</i>		
Turbidity/Color	_____					
Odor (Y/N)	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>		
Casing Volumes	<i>clear</i>	<i>clear</i>	<i>clear</i>	<i>clear</i>		
Dewatered (Y/N)	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>		

Comments/Observations:

SAMPLING DATA

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

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
<i>EX1</i>	<i>3</i>	<i>Voa</i>	<i>HCL</i>	<i>40 ml</i>		<i>TPH-g, BTEX, MTBE</i>

Total Purge Volume: _____ (gallons) Disposal: *POWER*

Weather Conditions: _____

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

Well Head Conditions Requiring Correction: _____

Problems Encountered During Purging and Sampling: _____

Comments: _____

GROUNDWATER PURGE AND SAMPLE

Project Name: *Exxon 7-3399* Well No: *MW-14* Date: *9/20/00*
 Project No: *TM3399.3* Personnel: *JO*

GAUGING DATA

Water Level Measuring Method: _____ Measuring Point Description: *TOC* *pg 1 of 2*

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)
	<i>OR FILLER TO</i>	<i>136.00</i>	<i>50.74</i>	<i>85.53</i>	<i>1</i>	<i>2</i>	<i>4</i>	<i>6</i>	<i>14.0</i>
				0.04	0.16	0.64	1.44		

PURGING DATA

Purge Method: *Submersible Pump* Purge Depth: _____ Screen _____ Purge Rate: _____ (gpm)

Time	1335	1340	1344	1348	1353	1356
Volume Purge (gal)	<i>14.0</i>	<i>28.0</i>	<i>42.0</i>	<i>58.0</i>	<i>72.0</i>	<i>86.0</i>
Temperature (C)	<i>19.1</i>	<i>19.1</i>	<i>19.0</i>	<i>18.3</i>	<i>18.4</i>	<i>18.4</i>
pH	<i>7.42</i>	<i>7.42</i>	<i>7.43</i>	<i>7.33</i>	<i>7.37</i>	<i>7.33</i>
Spec. Cond. (umhos)	<i>0.99</i>	<i>0.99</i>	<i>1.00</i>	<i>0.931</i>	<i>0.931</i>	<i>0.934</i>
Turbidity/Color	_____	_____	_____	_____	_____	_____
Odor (Y/N)	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>
Casing Volumes	<i>Silty</i>	<i>Silty</i>	<i>Silty</i>	<i>Silty</i>	<i>Silty</i>	<i>Cloudy</i>
Dewatered (Y/N)	<i>W</i>	<i>Silty W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>

Comments/Observations:

START Depth of Baffle = 111.86 feet *Surge after*
After Development = 135.64 feet *every casing volume 4 purg*

SAMPLING DATA

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

Comments: _____

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
<i>EX1</i>	<i>3</i>	<i>Voa</i>	<i>HCL</i>	<i>40 ml</i>	_____	<i>TPH-g, BTEX, MTBE</i>

Total Purge Volume: *140* (gallons) Disposal: *LOWIC*

Weather Conditions: *Clear*

Condition of Well Box and Casing at Time of Sampling: *Good*

Well Head Conditions Requiring Correction: *None*

Problems Encountered During Purging and Sampling: *None*

Comments: _____

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 7-3399 Well No: MW-14 Date: 9/20/07
 Project No: TM3399.3 Personnel: 30

GAUGING DATA

Water Level Measuring Method:

Measuring Point Description: TOC Pg 2 of 2

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)
	-	=	X	1	2	4	6	=	
				0.04	0.16	0.64	1.44		

PURGING DATA

Purge Method: Submersible Pump Purge Depth: Screen Purge Rate: (gpm)

Time	1300	1403	1406	1409		
Volume Purge (gal)	100	114	128	148		
Temperature (C)	18.1	18.2	18.0	18.0		
pH	7.43	7.42	7.43	7.43		
Spec. Cond. (umhos)	0.55	0.96	0.52	0.53		
Turbidity/Color	/					
Odor (Y/N)	W	W	W	W		
Casing Volumes	Cloudy	Cloudy	Clear	Clear		
Dewatered (Y/N)	W	N	W	W		

Comments/Observations:

SAMPLING DATA

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

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
EX1	3	Voa	HCL	40 ml		TPH-g, BTEX, MTBE

Total Purge Volume: _____ (gallons) Disposal: _____

Weather Conditions:

Condition of Well Box and Casing at Time of Sampling:

Well Head Conditions Requiring Correction:

Problems Encountered During Purging and Sampling:

Comments:

Appendix F

**Laboratory Analytical Reports
and Chain-of-Custody Documentation**



Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

07 September 2000

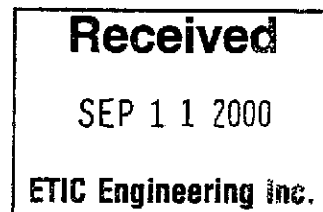
Joe Muehleck
ETIC Engineering
44 Mayhew Way
Walnut Creek, CA 94596

E: Exxon

Enclosed are the results of analyses for samples received by the laboratory on 31-Aug-00 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Richard Stover
Project Manager





ETIC Engineering
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 2991 Hopyard Rd.
Project Manager: Joe Muehleck

Reported:
07-Sep-00 09:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Comp 1	P009058-01	Soil	30-Aug-00 00:00	31-Aug-00 15:15
Comp 2	P009058-02	Soil	30-Aug-00 00:00	31-Aug-00 15:15
Comp 3	P009058-03	Soil	30-Aug-00 00:00	31-Aug-00 15:15

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

RW

Richard Stover, Project Manager





ETIC Engineering
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 2991 Hopyard Rd.
Project Manager: Joe Muehleck

Reported:
07-Sep-00 09:21

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Comp 1 (P009058-01) Soil Sampled: 30-Aug-00 00:00 Received: 31-Aug-00 15:15

Gasoline	ND	1000	ug/kg	1	0090039	05-Sep-00	05-Sep-00	EPA 8015M/8020M	
Benzene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98.5 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	65-135		"	"	"	"	

Comp 2 (P009058-02) Soil Sampled: 30-Aug-00 00:00 Received: 31-Aug-00 15:15

Gasoline	ND	1000	ug/kg	1	0090039	05-Sep-00	05-Sep-00	EPA 8015M/8020M	
Benzene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.8 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.3 %	65-135		"	"	"	"	

Comp 3 (P009058-03) Soil Sampled: 30-Aug-00 00:00 Received: 31-Aug-00 15:15

Gasoline	ND	1000	ug/kg	1	0090039	05-Sep-00	05-Sep-00	EPA 8015M/8020M	
Benzene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	5.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98.3 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.5 %	65-135		"	"	"	"	

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

RS

Richard Stover, Project Manager





ETIC Engineering
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 2991 Hopyard Rd.
Project Manager: Joe Muehleck

Reported:
07-Sep-00 09:21

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Comp 1 (P009058-01) Soil Sampled: 30-Aug-00 00:00 Received: 31-Aug-00 15:15									
Lead	ND	7.50	mg/kg	1	0090019	02-Sep-00	05-Sep-00	EPA 6010B	
Comp 2 (P009058-02) Soil Sampled: 30-Aug-00 00:00 Received: 31-Aug-00 15:15									
Lead	ND	7.50	mg/kg	1	0090019	02-Sep-00	05-Sep-00	EPA 6010B	
Comp 3 (P009058-03) Soil Sampled: 30-Aug-00 00:00 Received: 31-Aug-00 15:15									
Lead	ND	7.50	mg/kg	1	0090019	02-Sep-00	05-Sep-00	EPA 6010B	

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

RCA

Richard Stover, Project Manager





ETIC Engineering
 144 Mayhew Way
 Walnut Creek CA, 94596

Project: Exxon
 Project Number: 2991 Hopyard Rd.
 Project Manager: Joe Muehleck

Reported:
 07-Sep-00 09:21

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0090039 - EPA 5030 soils

Blank (0090039-BLK1)

Prepared & Analyzed: 05-Sep-00

Gasoline	ND	1000	ug/kg							
Benzene	ND	5.00	"							
Toluene	ND	5.00	"							
Ethylbenzene	ND	5.00	"							
Xylenes (total)	ND	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	574		"	600		95.7	65-135			
Surrogate: 4-Bromofluorobenzene	602		"	600		100	65-135			

LCS (0090039-BS1)

Prepared & Analyzed: 05-Sep-00

Benzene	190	5.00	ug/kg	200		95.0	65-135			
Toluene	187	5.00	"	200		93.5	65-135			
Ethylbenzene	181	5.00	"	200		90.5	65-135			
Xylenes (total)	612	5.00	"	600		102	65-135			
Surrogate: a,a,a-Trifluorotoluene	572		"	600		95.3	65-135			

Matrix Spike (0090039-MS1)

Source: P009007-01

Prepared & Analyzed: 05-Sep-00

Benzene	221	5.00	ug/kg	200	ND	111	65-135			
Toluene	209	5.00	"	200	ND	105	65-135			
Ethylbenzene	193	5.00	"	200	ND	96.2	65-135			
Xylenes (total)	642	5.00	"	600	ND	107	65-135			
Surrogate: a,a,a-Trifluorotoluene	629		"	600		105	65-135			

Matrix Spike Dup (0090039-MSD1)

Source: P009007-01

Prepared & Analyzed: 05-Sep-00

Benzene	221	5.00	ug/kg	200	ND	111	65-135	0	20	
Toluene	207	5.00	"	200	ND	104	65-135	0.962	20	
Ethylbenzene	190	5.00	"	200	ND	94.7	65-135	1.57	20	
Xylenes (total)	634	5.00	"	600	ND	105	65-135	1.25	20	
Surrogate: a,a,a-Trifluorotoluene	616		"	600		103	65-135			

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Richard Stover

Richard Stover, Project Manager





ETIC Engineering
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 2991 Hopyard Rd.
Project Manager: Joe Muehleck

Reported:
07-Sep-00 09:21

**Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 0090019 - EPA 3050B									
Blank (0090019-BLK1)									
Lead	ND	7.50	mg/kg						Prepared: 02-Sep-00 Analyzed: 05-Sep-00
LCS (0090019-BS1)									
Lead	46.7	7.50	mg/kg	50.0		93.4 80-120			Prepared: 02-Sep-00 Analyzed: 05-Sep-00
Matrix Spike (0090019-MS1)									
Lead	43.2	5.77	mg/kg	38.5	19.7	61.0 75-125			Source: P009043-06 Prepared: 02-Sep-00 Analyzed: 05-Sep-00 QM-01
Matrix Spike Dup (0090019-MSD1)									
Lead	34.1	5.07	mg/kg	33.8	19.7	42.6 75-125	23.5	20	Source: P009043-06 Prepared: 02-Sep-00 Analyzed: 05-Sep-00 QM-01,QR-03

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

RLA

Richard Stover, Project Manager





ETIC Engineering
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 2991 Hopyard Rd.
Project Manager: Joe Muehleck

Reported:
07-Sep-00 09:21

Notes and Definitions

- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





Consultant's Name: ETIC Engineering Page 1 of 5
 Address: 144 Mayhew Way Walnut Creek CA Site Location: 2971 Hopyard Rd P/Os
 Project #: TM3399.3 Consultant Project #:
 Project Contact: Joe Muehleck Phone #: 925 977-7914 Consultant Work Release #: 2002958
 EXXON Contact: Darin Rouse Phone #: 925 246 8768 Laboratory Work Release #:
 Sampled by (print): Bryan Campbell Sampler's Signature: [Signature] EXXON RAS #: 7-3399
 Shipment Method: Air Bill #:

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day) ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/8015/8020	TPH/Diesel EPA 8015	TRPH S.M. 5520	Total Lead	Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
DRUM 1-	8-30-00	1555	SOIL	None	1	P0091058-01	X			X	Composite
DRUM 2-					1						
DRUM 3-					1						
DRUM 4-					1						
DRUM 5-					1						
DRUM 6-					1						
DRUM 7-					1						
DRUM 8-					1						
DRUM 9-					1						

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Bryan Campbell	8/30/00	1700	Mark Colli/Sequoia	8/31	1150	Composite samples in lab per
Mark Colli	8/31	1205	Chris Jensen/Capitol BAY	8/31	15:25	Comments added for a total of 3 Composite
Chris Jensen/Capitol BAY	8/31		[Signature]	8/31	1844	of 3 Composite samples.

493 9/1/00 2:52 [Signature] 9/1/00 15:55 [Signature]

Pink - Client
Yellow - Sequoia
White - Sequoia



680 [redacted] Peak [redacted]
 Redwood City, CA 94063
 (650) 364-9600 • FAX (650) 364-9233

EXXON COMPANY U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: ETIC Engineering

Address: 144 Mayhew Way Walnut Creek CA

Project #: TM 3399.3 Consultant Project #:

Project Contact: Joe Muehleack Phone #: 925 977-7914

EXXON Contact: Darin Rouse Phone #: 925 246 8768

Sampled by (print): Bryan Campbell Sampler's Signature: [Signature]

Shipment Method: Air Bill #:

Site Location: 2991 Hopwood Rd

Consultant Work Release #: 2002958

Laboratory Work Release #:

EXXON RAS #: 7-3399

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	Total Lead	Temperature: _____
DRUM -10	8-30-00	1555	SOIL	None	1		X			X	Composite #1
DRUM -11					1						↓ Composite 2
DRUM -12					1						
DRUM -15					1						
DRUM -15					1						
DRUM -16					1						
DRUM -17					1						
DRUM -18					1						
DRUM -18					1						
DRUM -22					1						

PC09058-02

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Bryan Campbell	8/30/00	1700	Mark Bell / Sequoia	8-31	1150	Same as Page 1
Mark Bell	8-31	1205	Chris Jensen / Capitol Bay	8/31	15:25	
Chris Jensen / Capitol Bay	8/31		[Signature] mto	8/31	1844	

8-08

9-1-00

[Signature]

Pink - Client
 Yellow - Sequoia
 White - Sequoia



680 [redacted] peak [redacted]
 Redwood City, CA 94063
 (650) 364-9600 • FAX (650) 364-9233

EXXON COMPANY U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Page 3 of 5

Consultant's Name: ETIC Engineering

Address: 144 Mayhew Way Walnut Creek CA

Project #: TM339A.3 Consultant Project #:

Project Contact: Joe Muehleck Phone #: 925 977-7914

EXXON Contact: Darin Rouse Phone #: 925 246-8768

Sampled by (print): Bryan Campbell Sampler's Signature: [Signature]

Shipment Method: Air Bill #:

Site Location: 2991 Hopwood Rd

Consultant Work Release #: 2002958

Laboratory Work Release #:

EXXON RAS #: 7-3399

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	ANALYSIS REQUIRED			Total Lead	Temperature: _____	
							TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520		Inbound Seal: Yes No	Outbound Seal: Yes No
DRUM - 23	8/30/00	1555	Soil	None	1		X			X		Compos 2
DRUM - 24					1							
DRUM - 25					1							
DRUM - 26					1							
DRUM - 27					1							
DRUM - 28					1							
DRUM - 29					1							
DRUM - 30					1							
DRUM - 31					1							
DRUM - 32					1							

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Bryan Campbell	8/30/00	1700	Mark Colli / Sequoia	8/31	1150	Same as Page 1
Mark Colli	8/31	1205	Chris Jensen / Capitol Bay	8/31	15:25	
Chris Jensen / Capitol Bay	8/31		[Signature]	8/31	1844	

Pink - Client
Yellow - Sequoia
White - Sequoia

545

9/01)

[Signature]



Consultant's Name: ETIC Engineering

Address: 144 Mayhew Way Walnut Creek CA

Project #: TM3399.3 Consultant Project #:

Project Contact: Joe Mueblerck Phone #: 925 977-7914

EXXON Contact: Darin Rouse Phone #: 925 246 8768

Sampled by (print): Bryan Campbell Sampler's Signature: [Signature]

Shipment Method: Air Bill #:

Site Location: 2991 Hopyard Rd

Consultant Work Release #: 2002958

Laboratory Work Release #:

EXXON RAS #: 7-3399

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	ANALYSIS REQUIRED				Temperature: _____	
							TPH/Gas BTEX/8015/8020	TPH/Diesel EPA 8015	TRPH S.M. 5520	Total Lead	Inbound Seal: Yes No	Outbound Seal: Yes No
DRUM - 32	8-30-00	1555	SOIL	1			X			X		Composit 2 ↓ Composit 3 ↓
DRUM - 35				1								
DRUM - 37				1								
DRUM - 38				1	POUR OIL							
DRUM - 39				1								
DRUM - 40				1								
DRUM - 41				1								
DRUM - 42				1								
DRUM - 43				1								

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Bryan Campbell	8/30/00	1700	Mark Coll / Sequoia	8-31	1150	Same as Page 1
Mark Coll	8-31	1205	Chris Jensen / Capitol Bay	8/31	1525	
Chris Jensen / Capitol Bay	8/31		[Signature]	8/31	1844	

Pink - Client
Yellow - Sequoia
White - Sequoia



Sequoia Analytical
 680 [redacted] [redacted]
 Redwood City, CA 94063
 (650) 364-9600 • FAX (650) 364-9233

EXXON COMPANY U.S.A.
 P.O. Box 2180, Houston, TX 77002-7426
CHAIN OF CUSTODY

Consultant's Name: ETIC Engineering Page 5 of 5
 Address: 144 Mayhew Way Walnut Creek CA Site Location: 2991 Hopwood Rd
 Project #: TM 3399.3 Consultant Work Release #: 2002958
 Project Contact: Joe Muehleck Laboratory Work Release #:
 EXXON Contact: Darin Rouse EXXON RAS #: 7-3399
 Sampled by (print): Bryan Campbell Sampler's Signature: [Signature]
 Shipment Method: Air Bill #:

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day) **ANALYSIS REQUIRED**

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/8015/8020	TPH/Diesel EPA 8015	TRPH S.M. 5520	Total Lead	Temperature: _____	
											Inbound Seal: Yes No	Outbound Seal: Yes No
DRUM - 44	8/30/00	1555	SOIL		1		X			X		Composite 3 ↓
DRUM - 45	8/30/00	1555	SOIL		1		X			X		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Bryan Campbell	8/30/00	1700	Mark Colli / Sequoia	8/31	1150	Same as Page 4.
Mark Colli	8/31	1200	Chris Jensen / Capitol Bay	8/31	15:25	
Chris Jensen / Capitol Bay	8/31		[Signature]	8/31	1844	

8/31 9-1

Pink - Client
Yellow - Sequoia
White - Sequoia



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

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

Certificate of Analysis Number:
00100273

<p>Report To:</p> <p>ETIC Engineering Inc. Joe Muehleck 144 Mayhew Way</p> <p>Walnut Creek California 94596- ph: (925) 977-7914 fax: (925) 977-7915</p>	<p>Project Name: TM3399.3</p> <p>Site: 7-3399,20002958</p> <p>Site Address: 2991 Hopyard Road Pleasanton CA</p> <p>PO Number: LWR#20008062</p> <p>State: California</p> <p>State Cert. No.:</p> <p>Date Reported: 10/27/00</p>
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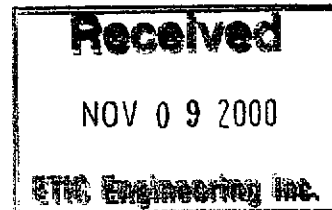
Your samples were subcontracted to McBride-Ratcliff and Associates for Particle Size and Grain Size analyses. The samples were assigned to their Lab No. 79998016.

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.

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.

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



Sonia West
 West, Sonia
 Senior Project Manager

10/27/00

Date



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

EXXON Company U.S.A.

Certificate of Analysis Number:

00100273

Report To: ETIC Engineering Inc.
 Joe Muehleck
 144 Mayhew Way

Walnut Creek
 California
 94596-

ph: (925) 977-7914 fax: (925) 977-7915

Fax To: ETIC Engineering Inc.
 Joe Muehleck

fax: (925) 977-7915

Project Name: TM3399.3

Site: 7-3399,20002958

Site Address: 2991 Hopyard Road

Pleasanton CA

PO Number: LWR#20008062

State: California

State Cert. No.:

Date Reported: 10/26/00

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW12, 45.5 ft-46 ft	00100273-01	Soil	8/15/00 11:30:00 AM	10/11/00 10:00:00 AM		<input type="checkbox"/>
MW12, 55.5 ft-56 ft	00100273-02	Soil	8/15/00 1:05:00 PM	10/11/00 10:00:00 AM		<input type="checkbox"/>
MW12, 67.5 ft-68 ft	00100273-03	Soil	8/15/00 3:55:00 PM	10/11/00 10:00:00 AM		<input type="checkbox"/>
MW12, 75.5 ft-76 ft	00100273-04	Soil	8/15/00 4:36:00 PM	10/11/00 10:00:00 AM		<input type="checkbox"/>
MW12, 119 ft-119.5 ft	00100273-05	Soil	8/16/00 1:30:00 PM	10/11/00 10:00:00 AM		<input type="checkbox"/>
MW14, 13.5 ft-14 ft	00100273-06	Soil	8/22/00 12:03:00 PM	10/11/00 10:00:00 AM		<input type="checkbox"/>
MW14, 43.5 ft-44 ft	00100273-07	Soil	8/22/00 2:25:00 PM	10/11/00 10:00:00 AM		<input type="checkbox"/>
MW14, 60.5 ft-61 ft	00100273-08	Soil	8/22/00 3:43:00 PM	10/11/00 10:00:00 AM		<input type="checkbox"/>
MW14, 74.5 ft-75 ft	00100273-09	Soil	8/22/00 4:16:00 PM	10/11/00 10:00:00 AM		<input type="checkbox"/>
MW14, 83.0 ft-83.5 ft	00100273-10	Soil	8/23/00 9:14:00 AM	10/11/00 10:00:00 AM		<input type="checkbox"/>
MW14, 125.0 ft-125.5 ft	00100273-11	Soil	8/23/00 2:45:00 PM	10/11/00 10:00:00 AM		<input type="checkbox"/>

Sonia West

Test, Sonia
 Project Manager

10/26/00

Date

Joel Grice
 Laboratory Director
 Ted Yen
 Quality Assurance Officer



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

Client Sample ID MW12, 45.5 ft-46 ft

Collected: 8/15/00 11:30:00 SPL Sample ID: 00100273-01

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
 Project Manager

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



McBride-Ratcliff and Associates, Inc.

TO: Mrs. Sonia West
SPL
8880 Interchange Drive
Houston, Texas 77054

DATE OF REPORT: October 25, 2000
PROJECT NUMBER: 79998016
PAGE 1 OF 3

TEST METHOD(s): ASTM D422, *Standard Test Method for Particle-Size Analysis of Soils*

NOTE: Eleven soil samples were delivered to the MRA lab by SPL. The samples were contained in sealed jars. The samples were extracted in the MRA laboratory and found to be in good condition.

RESULTS OF LABORATORY TEST(S)

Sample Identification	000100273-01A	000100273-02A	000100273-03A	000100273-04A
Date of Test	October 25, 2000	October 25, 2000	October 25, 2000	October 25, 2000
Soil Description	Coarse to Fine Gravel and Sand	Brown & Tan Clay w/ Silt & Sand	Fine Gravel and Coarse to Fine Sand	Brown Clay w/ Silt & Sand

Sieve or Particle Size	% Passing	% Passing	% Passing	% Passing
1 1/2 in	100.0	100.0	100.0	100.0
1 in	100.0	100.0	100.0	100.0
3/4 in	76.4	100.0	100.0	100.0
1/2 in	64.8	100.0	94.5	100.0
3/8 in	53.7	100.0	80.8	100.0
No. 4	39.8	100.0	69.8	100.0
No. 10	26.1	100.0	50.7	99.0
No. 20	15.9	100.0	27.7	97.1
No. 40	10.3	100.0	11.1	95.3
No. 60	8.3	96.4	3.9	92.6
No. 100	7.0	94.8	2.8	88.1
No. 200	5.4	91.2	2.1	76.6

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9433 Kirby Drive - Houston, Texas 77054 - (713) 852-3000



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

Client Sample ID MW12, 55.5 ft-56 ft Collected: 8/15/00 1:05:00 SPL Sample ID: 00100273-02

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
 Project Manager

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



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

Client Sample ID MW12, 67.5 ft-68 ft Collected: 8/15/00 3:55:00 SPL Sample ID: 00100273-03

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
 Project Manager

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



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
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Client Sample ID MW12, 75.5 ft-76 ft Collected: 8/15/00 4:36:00 SPL Sample ID: 00100273-04

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
 Project Manager

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



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

Client Sample ID MW12, 119 ft-119.5 ft

Collected: 8/16/00 1:30:00

SPL Sample ID: 00100273-05

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
 Project Manager

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



McBride-Ratcliff and Associates, Inc.

TO: Mrs. Sonia West
SPL
8880 Interchange Drive
Houston, Texas 77054

DATE OF REPORT: October 25, 2000
PROJECT NUMBER: 79998016
PAGE 2 OF 3

TEST METHOD(s): ASTM D422, *Standard Test Method for Particle-Size Analysis of Soils*

RESULTS OF LABORATORY TEST(S)

Sample Identification	000100273-05A	000100273-06A	000100273-07A	000100273-08A
Date of Test	October 25, 2000	October 25, 2000	October 25, 2000	October 25, 2000
Soil Description	Fine Gravel and Coarse to Fine Sand	Tan & Gray to Dark Gray Clay	Coarse to Fine Gravel and Coarse to Fine Sand	Gray Clay w/ Silt & Sand

Sieve or Particle Size	% Passing	% Passing	% Passing	% Passing
2 in	100.0	100.0	100.0	100.0
1 1/2 in	100.0	100.0	74.5	100.0
1 in	100.0	100.0	63.9	100.0
3/4 in	100.0	100.0	58.7	100.0
1/2 in	82.2	100.0	48.9	100.0
3/8 in	75.2	100.0	41.8	100.0
No. 4	54.3	100.0	30.6	100.0
No. 10	33.9	100.0	20.9	100.0
No. 20	19.5	100.0	15.0	100.0
No. 40	11.9	100.0	11.8	100.0
No. 60	8.7	99.9	10.3	100.0
No. 100	6.7	99.9	9.2	97.3
No. 200	5.3	99.3	7.6	89.5

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 (713) 660-0901

Client Sample ID MW14, 13.5 ft-14 ft

Collected: 8/22/00 12:03:00 SPL Sample ID: 00100273-06

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
 Project Manager

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



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

Client Sample ID MW14, 43.5 ft-44 ft

Collected: 8/22/00 2:25:00

SPL Sample ID: 00100273-07

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
Project Manager

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



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

Client Sample ID MW14, 60.5 ft-61 ft

Collected: 8/22/00 3:43:00 SPL Sample ID: 00100273-08

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
 Project Manager

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



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 8880 INTERCHANGE DRIVE
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 (713) 680-0901

Client Sample ID MW14, 74.5 ft-75 ft Collected: 8/22/00 4:16:00 SPL Sample ID: 00100273-09

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
 Project Manager

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



McBride-Ratcliff and Associates, Inc.

TO: Mrs. Sonia West
SPL
8880 Interchange Drive
Houston, Texas 77054

DATE OF REPORT: October 25, 2000
PROJECT NUMBER: 79998016
PAGE 3 OF 3

TEST METHOD(s): ASTM D422, *Standard Test Method for Particle-Size Analysis of Soils*

RESULTS OF LABORATORY TEST(S)

Sample Identification	000100273-9A	000100273-10A	000100273-11A
Date of Test	October 25, 2000	October 25, 2000	October 25, 2000
Soil Description	Brown Clayey Sand w/ Silt	Brown Clay w/ Silt & Sand	Fine Gravel and Coarse to Fine Sand

Sieve or Particle Size	% Passing	% Passing	% Passing
2 in	100.0	100.0	100.0
1 1/2 in	100.0	100.0	100.0
1 in	100.0	100.0	100.0
3/4 in	100.0	100.0	69.4
1/2 in	100.0	100.0	57.7
3/8 in	100.0	100.0	50.1
No. 4	97.7	100.0	31.5
No. 10	95.8	100.0	15.1
No. 20	94.7	99.6	5.9
No. 40	93.7	99.3	2.4
No. 60	89.8	99.2	1.5
No. 100	76.3	99.1	1.1
No. 200	45.2	98.9	0.9

Note: The grain size data are presented graphically on the attached Figures.

By Abel Chavich

Our letters and reports are for the exclusive use of the CLIENT. The use of our name must receive our prior written approval. Our letters and reports apply only to the material(s) tested and/or inspected and are not necessarily indicative of the qualities of apparently identical or similar material(s).



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 HOUSTON, TEXAS 77054
 (713) 660-0901

Client Sample ID MW14, 83.0 ft-83.5 ft Collected: 8/23/00 9:14:00 SPL Sample ID: 00100273-10

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
 Project Manager

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



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

Client Sample ID MW14, 125.0 ft-125.5 ft Collected: 8/23/00 2:45:00 SPL Sample ID: 00100273-11

Site: 7-3399,20002958

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
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Sonia West

West, Sonia
Project Manager

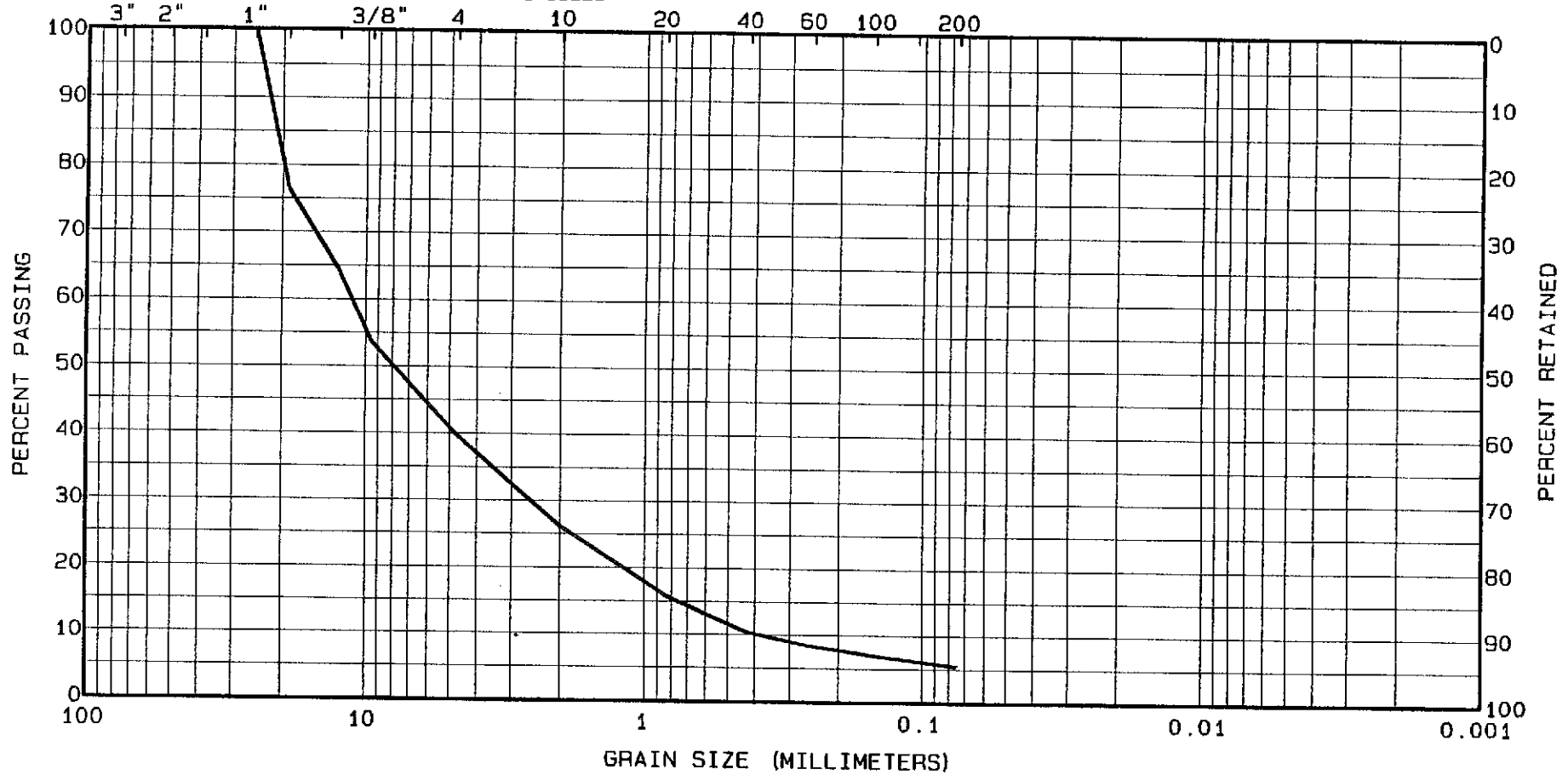
Qualifiers:	ND/U - Not Detected at the Reporting Limit	>MCL - Result Over Maximum Contamination Limit(MCL)
	B - Analyte detected in the associated Method Blank	D - Surrogate Recovery Unreportable due to Dilution
	* - Surrogate Recovery Outside Advisable QC Limits	MI - Matrix Interference
	J - Estimated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

QUALITY CONTROL
DOCUMENTATION

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

U. S. STANDARD SIEVE SIZES



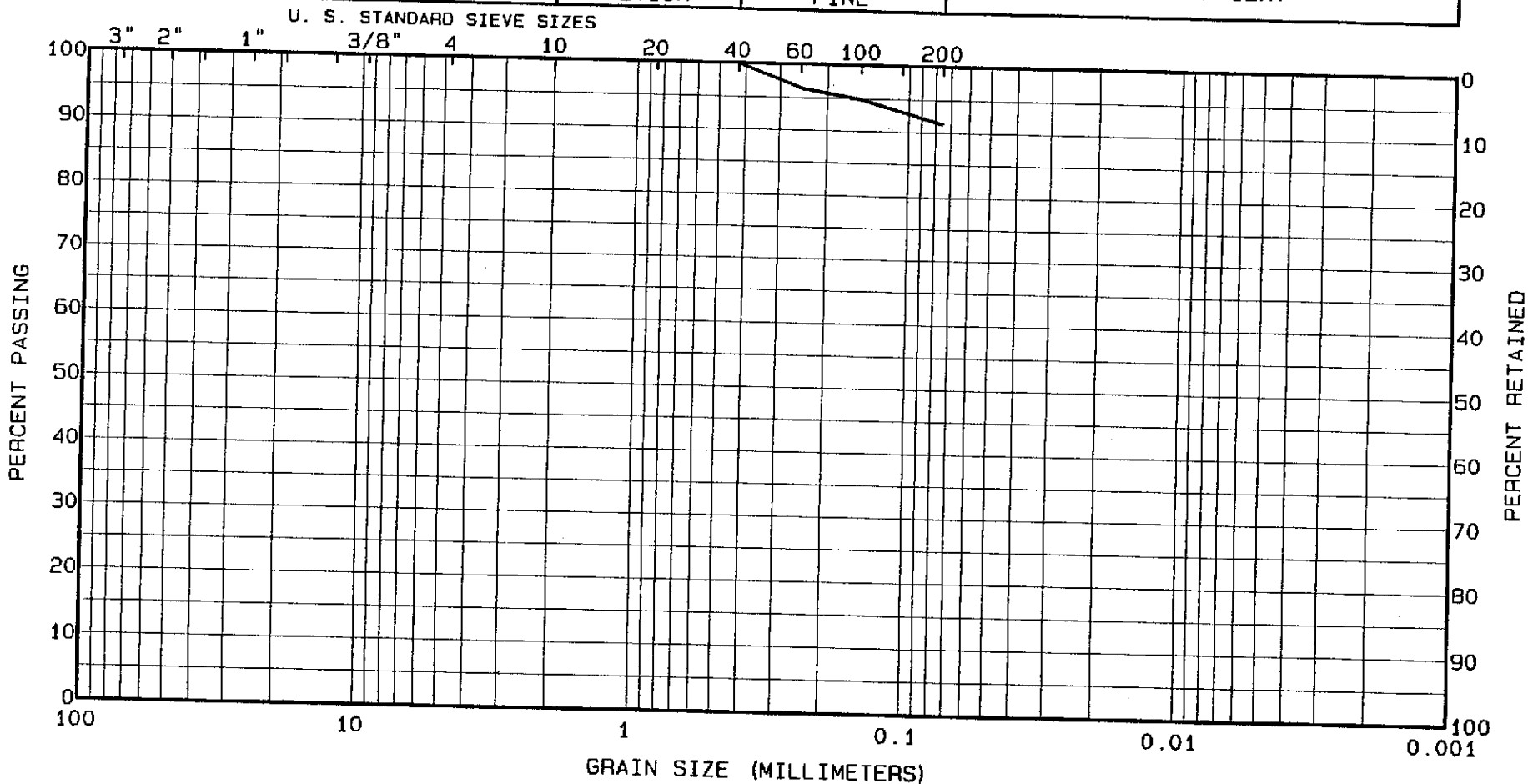
Boring No.	Depth, (feet)	Comments	Classification	Symbol
00100273	1A		C-F GR & C-F SA	

File No. 79998018

Figure No.

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



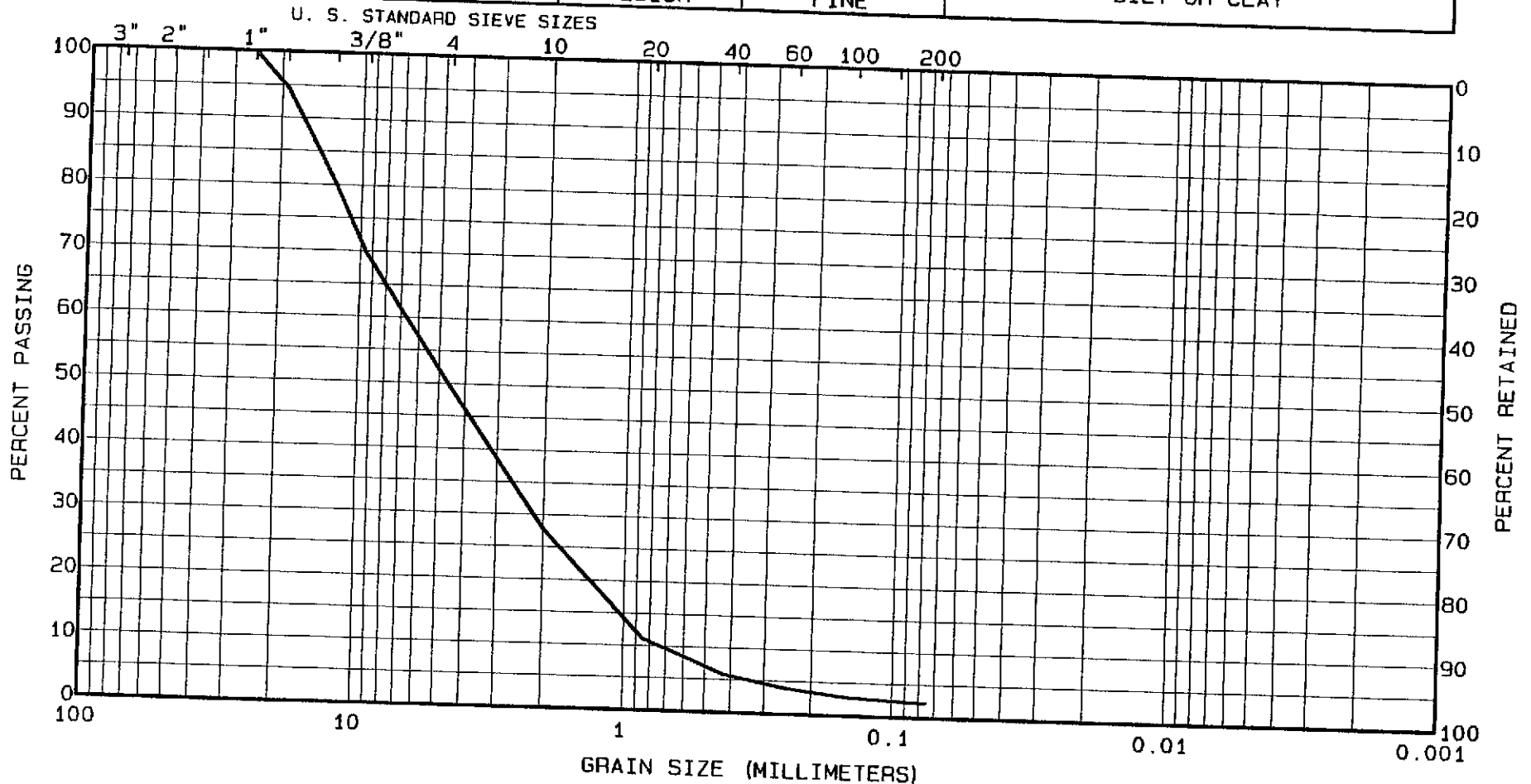
Boring No.	Depth, (feet)	Comments	Classification	Symbol
00100273	2A		BR & T CL W/ SISSA	_____

File No. 79998018

Figure No.

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

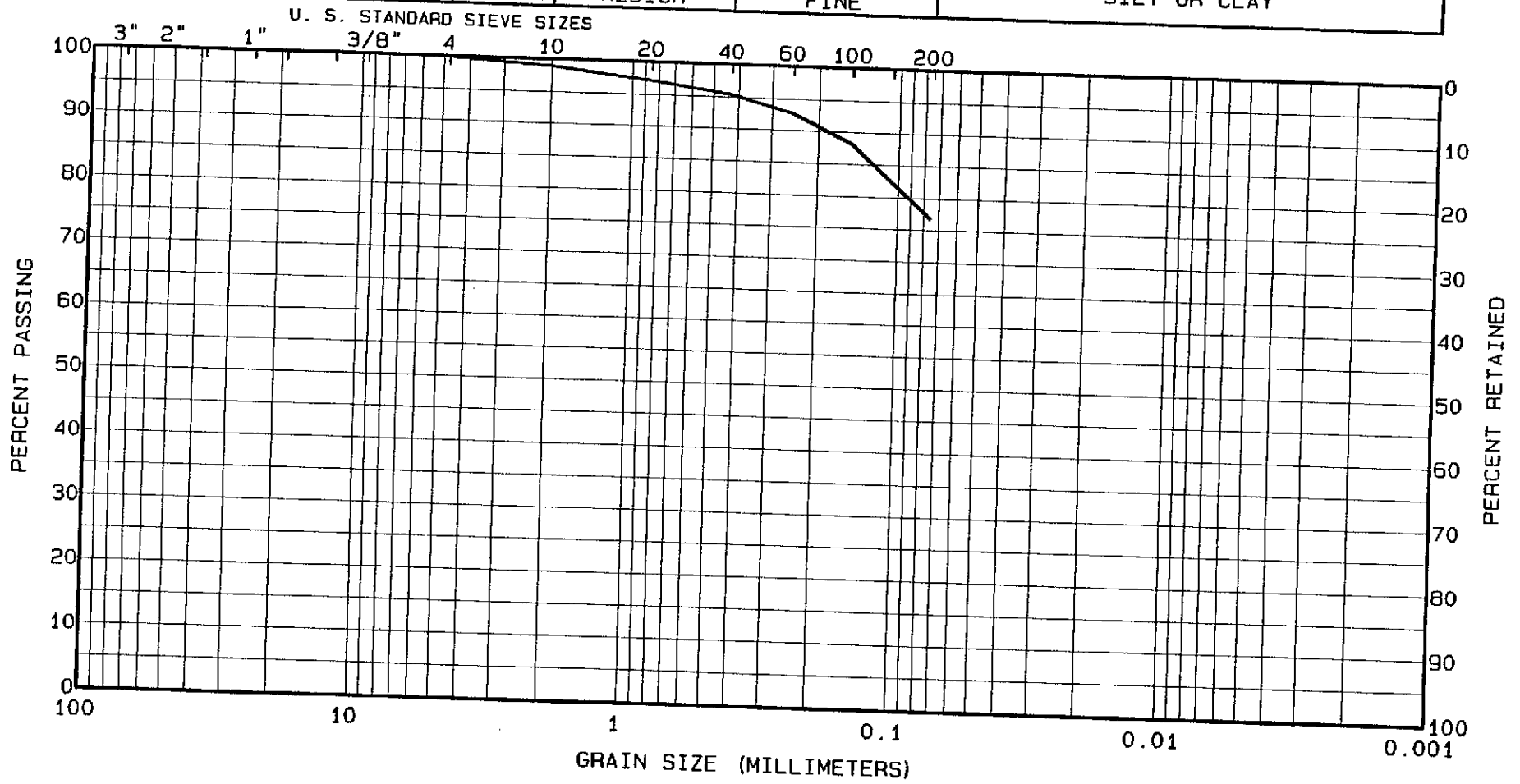


Boring No.	Depth, (feet)	Comments	Classification	Symbol
00100273	3A		F GR & CO TO F SA	

File No. 79998018
Figure No.

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

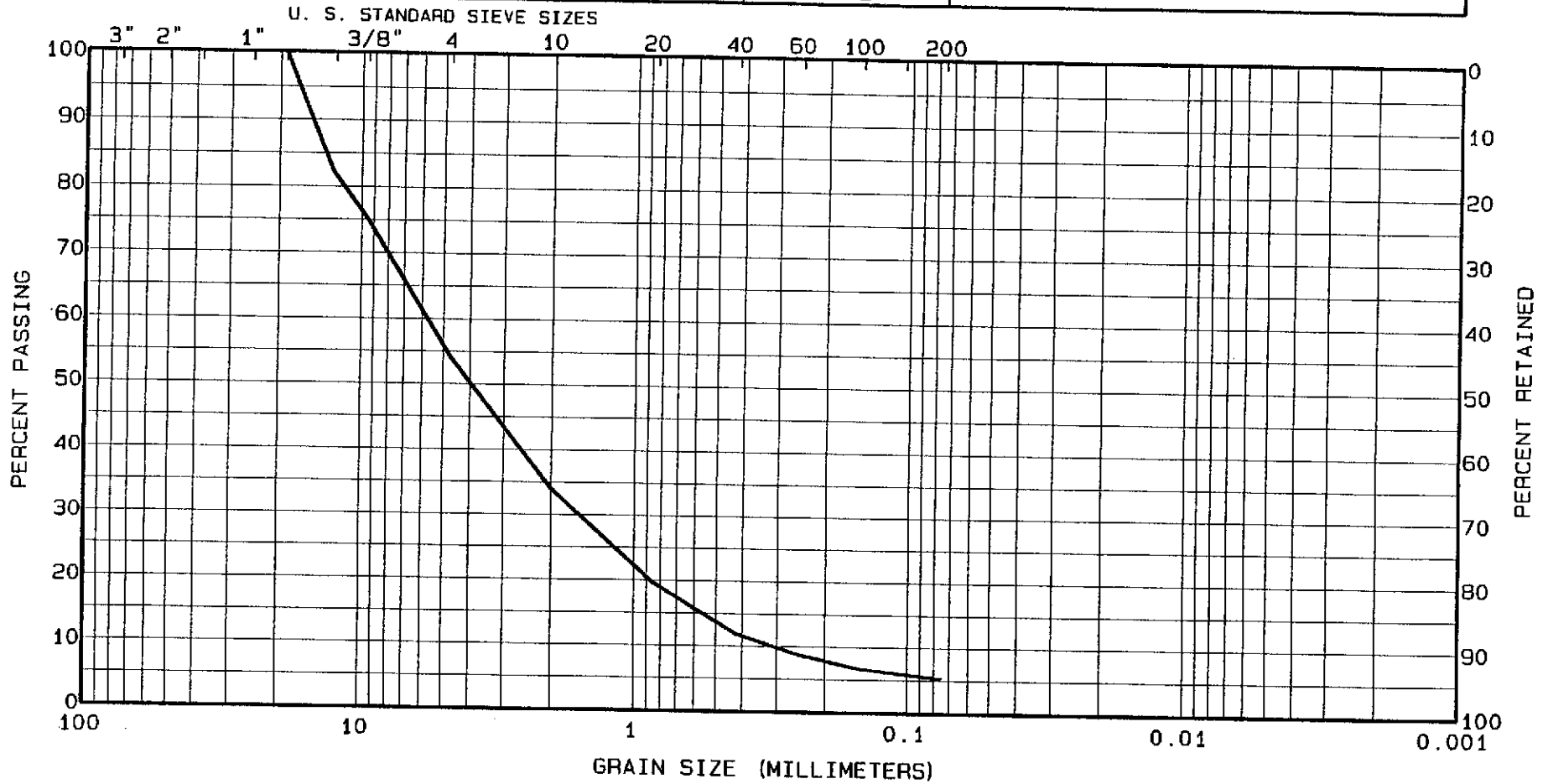


Boring No.	Depth, (feet)	Comments	Classification	Symbol
00100273	4A		BR CL W/ SI & SA	

File No. 79998018
 Figure No.

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



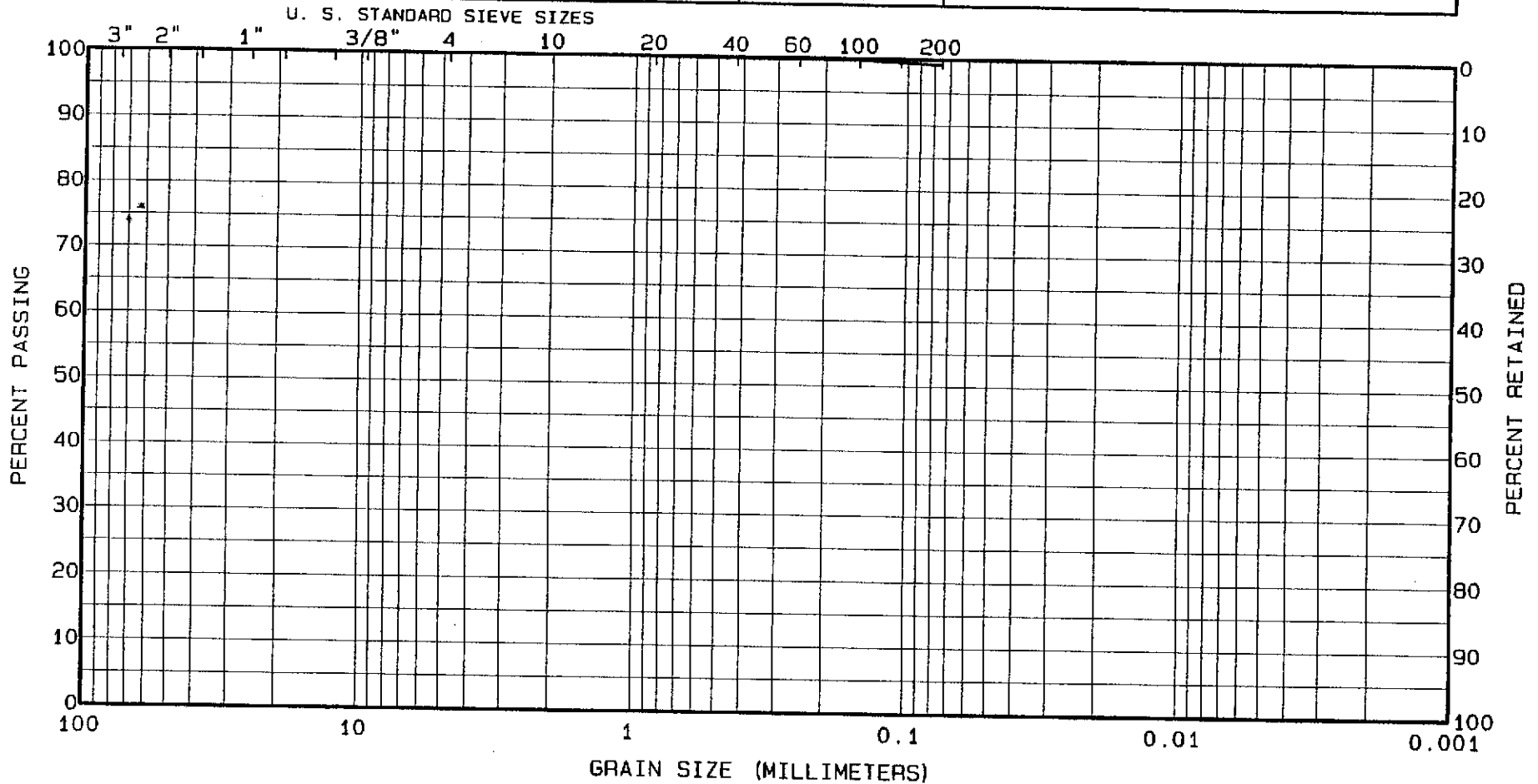
Boring No.	Depth. (feet)	Comments	Classification	Symbol
00100273	5A		F GR & CO TO F SA	

File No. 79998018

Figure No.

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

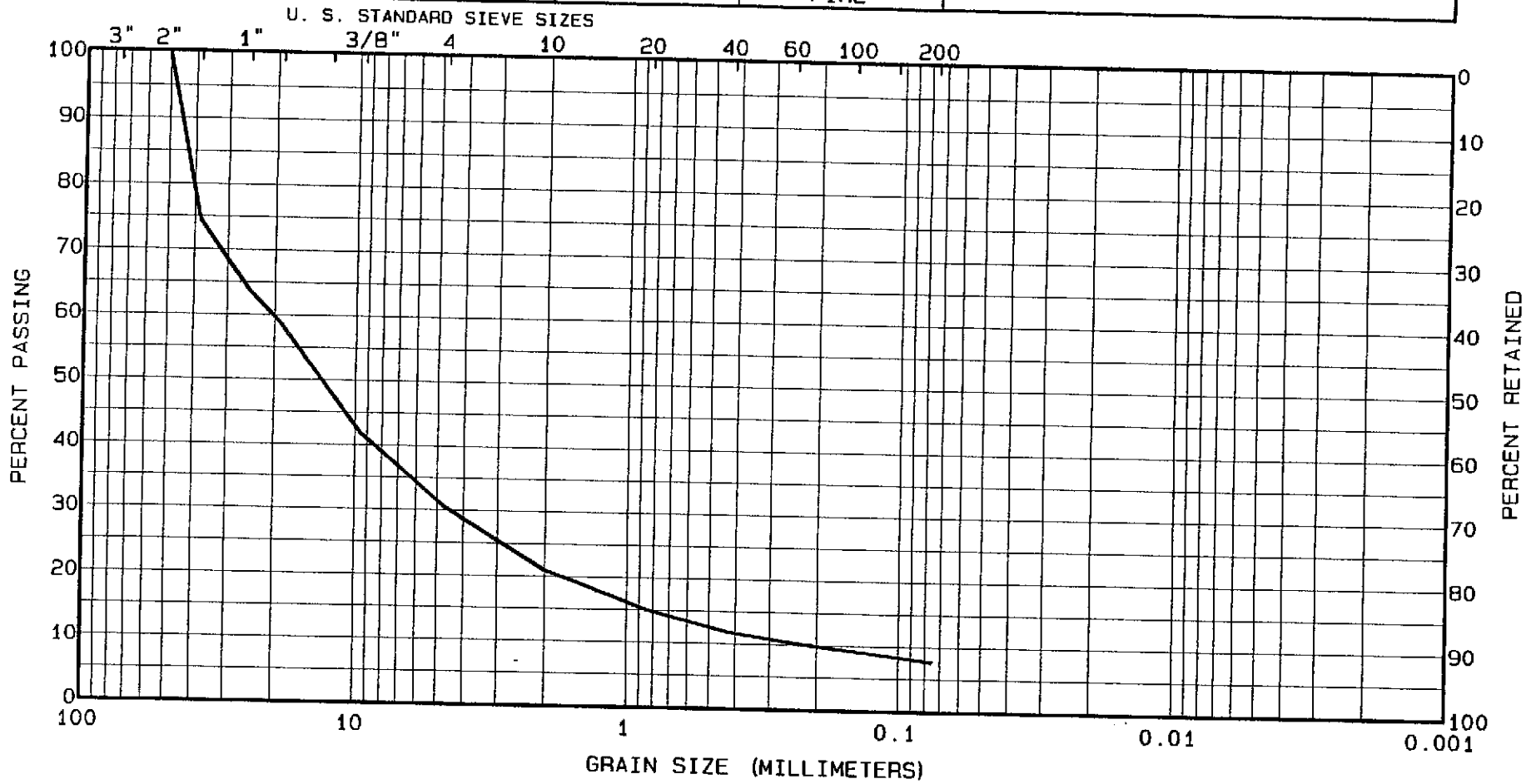


Boring No.	Depth, (feet)	Comments	Classification	Symbol
00100273	6A		T, GR & DK GR CL	

File No. 79998018
 Figure No.

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



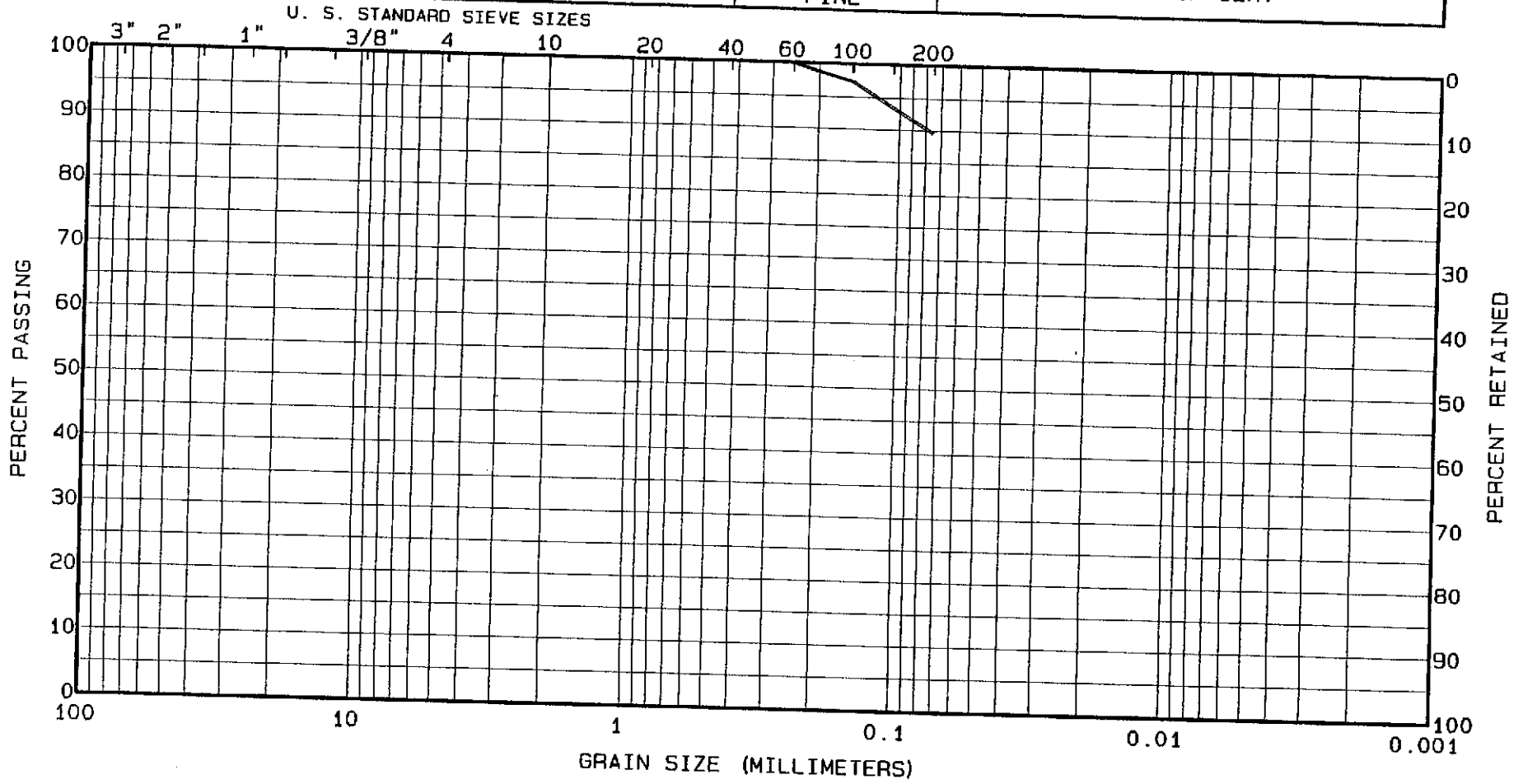
Boring No.	Depth, (feet)	Comments	Classification	Symbol
00100273	7A		C-F GR & C-F SA	

File No. 79998018

Figure No.

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL				SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE			



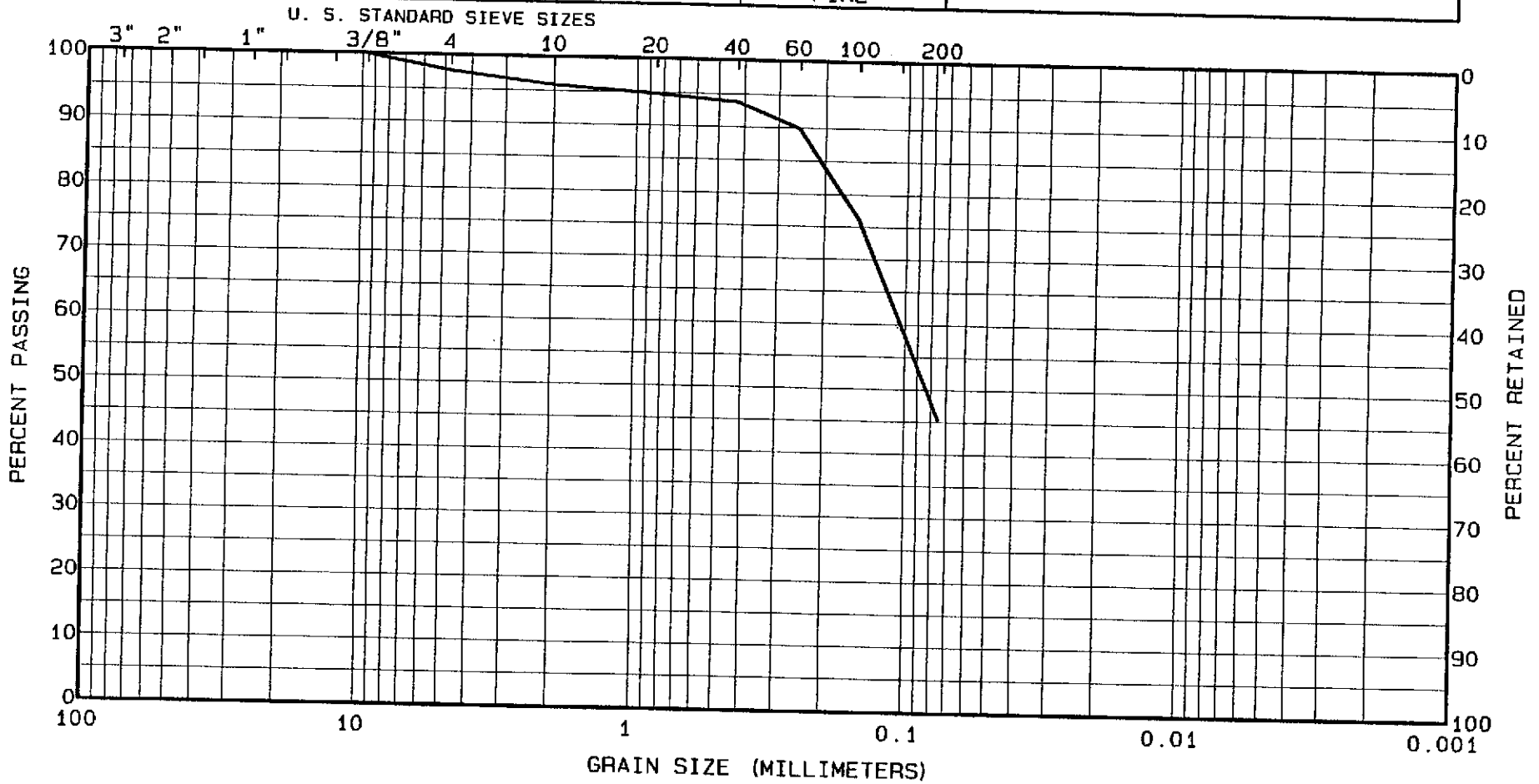
Boring No.	Depth, (feet)	Comments	Classification	Symbol
00100273	8A		GR CL W/ SI & SA	

File No. 79998018

Figure No.

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

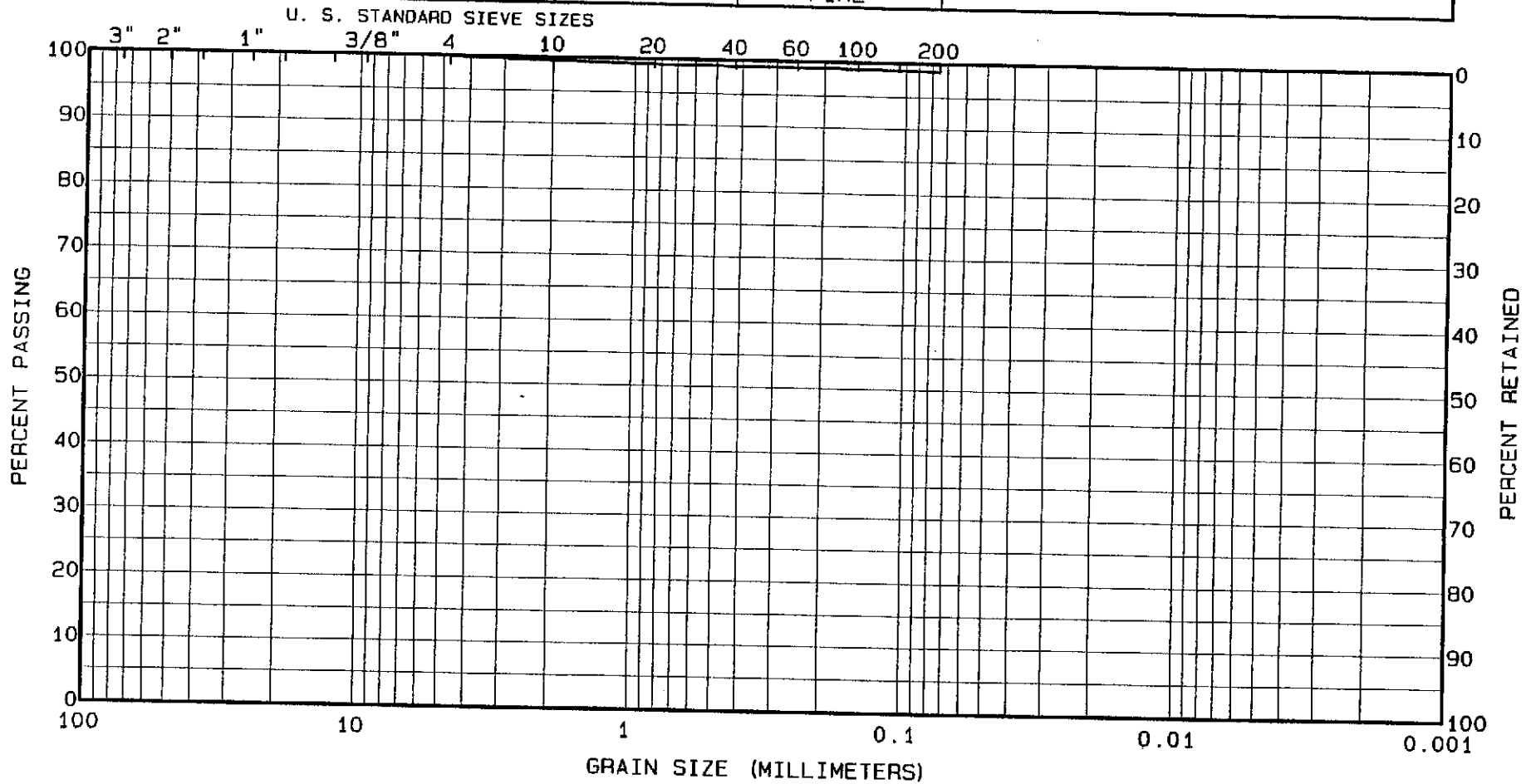


Boring No.	Depth, (feet)	Comments	Classification	Symbol
00100273	9A		BR SA CL W/ SI	

File No. 79998018
Figure No.

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



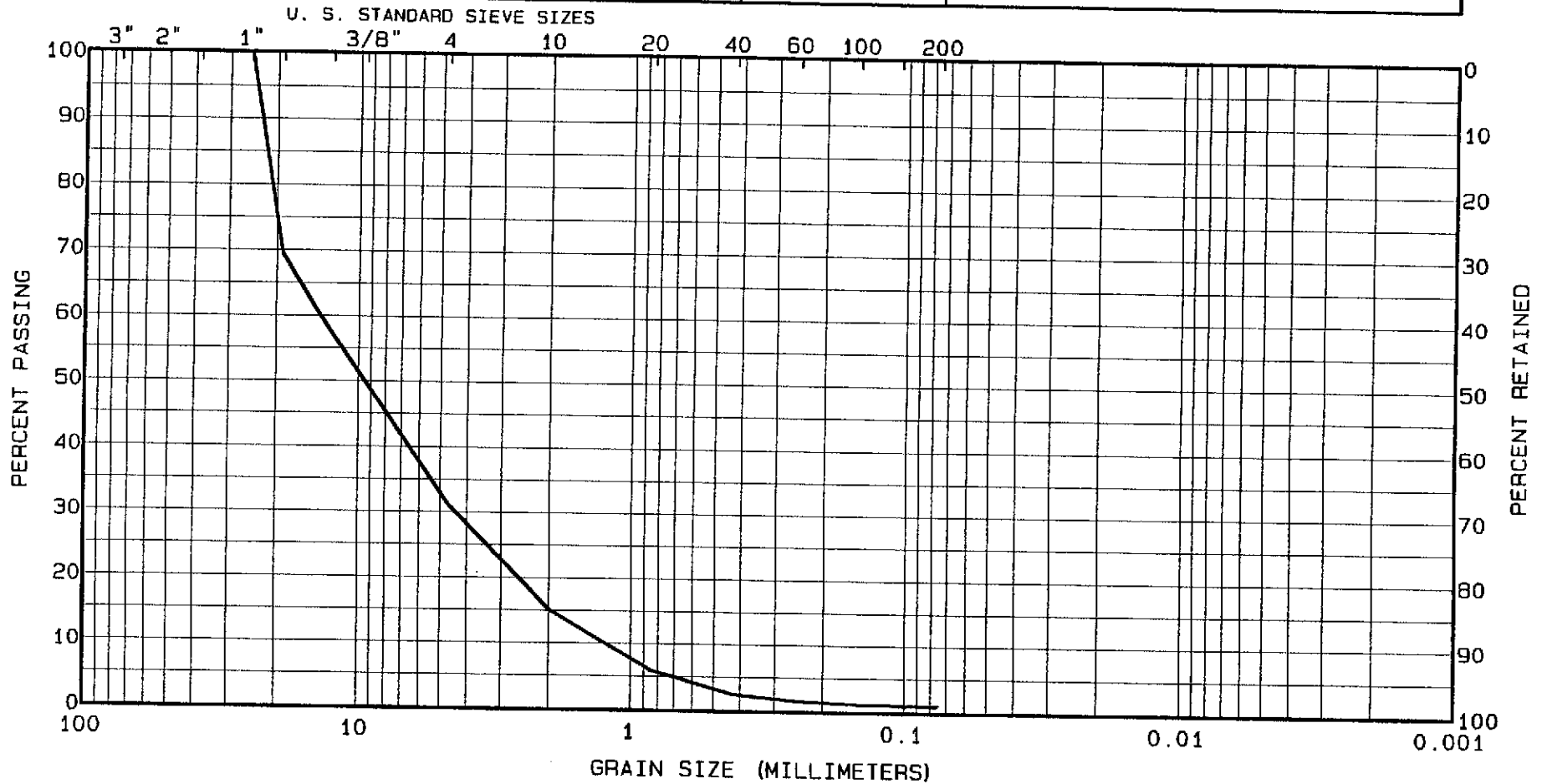
Boring No.	Depth, (feet)	Comments	Classification	Symbol
00100273	10A		BR CL W/ SI & SA	

File No. 79998018

Figure No.

GRAIN SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



Boring No.	Depth, (feet)	Comments	Classification	Symbol
00100273	11A		F GR & CO TO F SA	

File No. 79998018
 Figure No.

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST

EXXON COMPANY, USA.

(West Coast)

CHAIN OF CUSTODY RECORD NO. _____

Page 1 of 2

Exxon Engineer: Darin Rouse Phone: (925) 246-8768
 Consultant Co. Name: ETIC Engineering Contact: Joe Muehleck
 Address: 144 Mayhew Way Fax: (925) 977-7915
Walnut Creek CA 94596
 RAS #: 7-3399 Facility/State ID # (TN Only): _____
 AFE # (Terminal Only): _____ Consultant Project #: TM3399.3
 Location: 2991 Hopland (City) Pleasanton (State) CA
 EE C&M SDT
 Consultant Work Release #: 2002958
 Sampled By: Bryan Campbell

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)

OTHER

NO. OF CONTAINERS	TPH/GC 8015 GRO <input type="checkbox"/>	BTEX 8020 <input type="checkbox"/>	MTBE 8020 <input type="checkbox"/>	OXYGENATES (7) 8260 <input type="checkbox"/>	O&G IR 413.1 <input type="checkbox"/>	VOL 8260 <input type="checkbox"/>	SEMI-VOL 8270 <input type="checkbox"/>	PNAPAH 8100 <input type="checkbox"/>	PCB/PEST 8081/8082 <input type="checkbox"/>	TCLP FULL <input type="checkbox"/>	METALS, TOTAL <input type="checkbox"/>	LEAD, TOTAL 239.1 <input type="checkbox"/>	LEAD, DISSOLVED <input type="checkbox"/>	REACTIVITY <input type="checkbox"/>	PURGEABLE HYDROCARBON 8010 <input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/>	TOX/TOH <input type="checkbox"/>	Particle size by ASTM D422 <input checked="" type="checkbox"/>
CONTAINER SIZE	8015 DRO <input type="checkbox"/>	602 <input type="checkbox"/>	8260 <input type="checkbox"/>	8260 <input type="checkbox"/>	GRAV. 413.2 <input type="checkbox"/>	624 <input type="checkbox"/>	625 <input type="checkbox"/>	8270 <input type="checkbox"/>	PCB ONLY <input type="checkbox"/>	HEPB <input type="checkbox"/>	METALS, TCLP <input type="checkbox"/>	7421 <input type="checkbox"/>	LEAD TOTAL <input type="checkbox"/>	FLASH POINT <input type="checkbox"/>	8010 <input type="checkbox"/>	418.1 <input type="checkbox"/>		

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX			OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 GRO <input type="checkbox"/>	BTEX 8020 <input type="checkbox"/>	MTBE 8020 <input type="checkbox"/>	OXYGENATES (7) 8260 <input type="checkbox"/>	O&G IR 413.1 <input type="checkbox"/>	VOL 8260 <input type="checkbox"/>	SEMI-VOL 8270 <input type="checkbox"/>	PNAPAH 8100 <input type="checkbox"/>	PCB/PEST 8081/8082 <input type="checkbox"/>	TCLP FULL <input type="checkbox"/>	METALS, TOTAL <input type="checkbox"/>	LEAD, TOTAL 239.1 <input type="checkbox"/>	LEAD, DISSOLVED <input type="checkbox"/>	REACTIVITY <input type="checkbox"/>	PURGEABLE HYDROCARBON 8010 <input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/>	TOX/TOH <input type="checkbox"/>	Particle size by ASTM D422 <input checked="" type="checkbox"/>		
					H ₂ O	SOIL	AIR																								
MW12, 45.5'-46'	8-15-00	1130				X			None	1	X																				X
MW12, 55.5'-56'	8-15-00	1305				X				1	X																				X
MW12, 67.5'-68'	8-15-00	1555				X				1	X																				X
MW12, 75.5'-76'	8-15-00	1636				X				1	X																				X
MW12, 119'-119.5'	8-16-00	1330				X				1	X																				X
MW14, 13.5'-14'	8-22-00	1203				X				1	X																				X
MW14, 43.5'-44'	8-22-00	1425				X				1	X																				X
MW14, 54.5'-55'	8-22-00	1456				X				1	X																				X
MW14, 60.5'-61'	8-22-00	1543				X				1	X																				X
MW14, 74.5'-75'	8-22-00	1616				X				1	X																				X

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

**EXXON UST
 CONTRACT NO.
 C41483**

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF EDD
 FAX FAX C-O-C W/REPORT

REMARKS:
 * Grain size analysis ASTM D422 > 200 sieve.

LAB USE ONLY Lot # 500 NW Storage Location _____
 WORK ORDER #: 00100273 LAB WORK RELEASE #:

CUSTODY RECORD

Relinquished By Sampler: <u>Bryan Campbell</u>	Date <u>10/11/00</u>	Time <u>1700</u>	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	Date	Time	Received By: <u>[Signature]</u>

10/11/00 / 1000
 Cooler Temp: 3c



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

Sample Receipt Checklist

Workorder: 00100273
Date and Time Received: 10/11/00 10:00:00 AM
Temperature: 3

Received by: Estrada, Ruben
Carrier name: FedEx

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

Appendix G

Non-hazardous Waste Manifests

FILE COPY

Dillard Trucking, Inc. dba
Dillard Environmental Services
P.O. Box 579 • Byron, California 94514
Telephone: 925-634-6850 • Facsimile: 925-634-0569

VIA FACSIMILE 925-977-7915

October 16, 2000

ETIC

Attn: Mr. Bryan Campbell

RE: *Exxon #7-3399/2991 Hopyard Road Pleasanton, California*

Dear Mr. Bryan Campbell

Please be advised that 42 drums of bulk soil from the above referenced site has been removed. The bulk soil was transported for disposal to Vasco Landfill on Sept.25, 2000.

Should you have any questions, please do not hesitate to call.

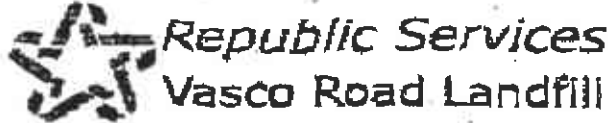
Sincerely,

Lynette Smith

Lynette Smith
Customer Service Representative

LS:DJP

cc: file



WASTE APPROVAL FORM/NON-HAZARDOUS WASTE MANIFEST

WASTE STREAM INFORMATION

Date	Tuesday, September 12, 2000		
Generator	Exxon Mobil #7-3399		
Generator Location	2991 Poppyard Rd.	Pleasanton	CA
SWIC Number	02712		
Bill To	Dillard-Exxon		
Approval Date	9/12/00		
Expiration Date	9/12/01		
Waste Description	Debris		
Management	Direct Burial		

The above is a recommendation of the Vasco Road Landfill. It must be understood that management of the waste for disposal must be in compliance with the facility's permit and applicable federal, state and local regulations. The approval is based upon a review of the information provided by the generator and is contingent upon the receipt in this disposal facility of a waste material essentially equivalent in chemical composition and physical properties to that as defined above. *At the request of Exxon Mobil Corp.*

A MINIMUM OF ONE SIGNED AND COMPLETED COPY OF THIS FORM MUST ACCOMPANY EACH LOAD. ONE COPY WILL BE RETAINED BY THE VASCO ROAD LANDFILL.

[Handwritten Signature]
Generator Signature

9/20/00
Date

TRANSPORTER INFORMATION

Transporter to complete this section

DES JOB # 2003/317
PO# 09-35398

Transporter Name	DILLARD ENVIRONMENTAL SERVICES
Transporter Address	P.O. Box 579
Transporter City, State, Zip	BYRON, CA 94514
Transporter Phone Number	(925) 634-6850
Driver Name	MIKE LEAGUE
Truck Number	291
Vehicle License Number/State	9N2817G

[Handwritten Signature]
Driver Signature

9/25/00
Date

DESTINATION INFORMATION

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Signature of Vasco Road Landfill employee

Date

4001 North Vasco Road, Livermore • Phone: 925-447-0441 • Fax: 925-447-3086 or 925-447-0444

Bryan

FILE COPY HAZARDOUS WASTE DATA FORM

NO.001264

Exxon Mobil

EPA I.D. NO.

E, X, E, M, P, T

ADDRESS P.O. Box 4999

CITY, STATE, ZIP The Woodlands, TX. 77380-4999

PHONE NO. 281, 2963655

ADDRESS SITE 2991 Hopwood Rd. #7-3399
Pleasanton, California 94566

		WEIGHT OR VOLUME	UNITS
		500 gallons	10

CONTAINERS: 10 TYPE: TANK TRUCK DRUMS DUMP TRUCK CARTONS OTHER

WASTE DESCRIPTION Waste Water/Well Water GENERATING PROCESS Well Purging/Development

COMPONENTS OF WASTE			COMPONENTS OF WASTE		
	PPM	%		PPM	%
1. Water		99-100	5.		
2. PETROLEUM Hydrocarbons		<1	6.		
3.			7.		
4.			8.		

PROPERTIES: pH 7-9 SOLID LIQUID SLUDGE SLURRY OTHER

HANDLING INSTRUCTIONS: Wear Appropriate Proper Protective Equipment

GENERATOR CERTIFICATION: This is to certify that the above named waste materials are 100% non-hazardous and are not regulated according to either 40 CFR (USEPA) or applicable state regulations. In addition the above named waste materials are properly described, packaged, marked, labeled and are in proper condition for transportation according to all applicable regulations.

Consultant for ExxonMobil

Consulting
TYPED OR PRINTED FULL NAME & SIGNATURE DATE 9-29-2000

NAME Service Station Systems, Inc.

EPA I.D. NO.

C A R 0 0 0 0 0 6 0 9 8

ADDRESS 1236 N. Fifth Street

SERVICE ORDER NO.

CITY, STATE, ZIP San Jose, CA 95112

PICK UP DATE 9-29-2000

PHONE NO. 408 971-2445

TRUCK, UNIT, I.D. NO. #02

Robert Ruyoso
TYPED OR PRINTED FULL NAME & SIGNATURE DATE 9-29-00

NAME Crosby And Overton, Inc.

EPA I.D. NO.

C A D 0 2 8 4 0 9 0 1 9

ADDRESS 1630 W. 17th Street

DISPOSAL METHOD

LANDFILL OTHER 1-36

CITY, STATE, ZIP Long Beach, CA 90813

Trunk treatment

PHONE NO. (562) 432-5445

QUANTITY:

Lowell Bradford
TYPED OR PRINTED FULL NAME & SIGNATURE DATE 10-5-00

DISCREPANCY

TO BE COMPLETED BY GENERATOR

TRANSPORTER

DISPOSAL

EMERGENCY CONTACT TELEPHONE NUMBER

**HAZARDOUS
MANIFEST**
(Continuation Sheet)

21. Generator's US EPA ID No.

EXXON

Manifest Document No.

001264810

22. Page No.

Information in the shaded areas is not required by Federal law.

Generator's Name

EXXON MOBIL

State Manifest Document Number

301264

State Generator's ID

24. Transporter

Company Name

*3
CONSOLIDATED*

25. US EPA ID Number

CA 0933668583

State Transporter's ID

SD 1638-168

26. Transporter

Company Name

27. US EPA ID Number

State Transporter's ID

Transporter's Phone

28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

29. Containers

30. Total Quantity

31. Unit WT/Vol

Waste No.

No.	Type	WT/Vol	Waste No.
a.			
b.			
c.			
d.			
e.			
f.			
g.			
h.			
i.			
j.			
k.			
l.			
m.			
n.			
o.			
p.			
q.			
r.			
s.			
t.			
u.			
v.			
w.			
x.			
y.			
z.			

Additional Descriptions for Materials Listed Above

Handling Codes for Wastes Listed Above

Special Handling Instructions and Additional Information

33. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: *MANUEL S RODRIGUEZ*

Signature: *Manuel S.R.*

Date: *7-00-10*

34. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: _____

Signature: _____

Date: *7-1-10*

35. Discrepancy Indication Space

TRANSPORTER