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June 30, 2006

Jennifer C. Sedlachek Project Manager

RECEIVED

By dehloptoxic at 9:04 am, Jul 03, 2006

ExonMobil
Refining & Supply

Mr. Barney Chan Alameda County Health Care Services Agency 1131 Harbor Bay Parkway Alameda, CA 94501-6577

Subject: Former Exxon RAS #7-0210, 7840 Amador Valley Boulevard, Dublin, California

Dear Mr. Chan:

Attached for your review and comment is a copy of the *Case Closure Request* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, summarizes the site history and presents information in support of case closure.

The information in this report indicates that the site meets the Regional Water Quality Control Board criteria for a low risk groundwater case, and as discussed in our October 27, 2005 meeting, a review for case closure is requested.

Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached report is true and correct.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

Jennifer C. Sedlachek

Project Manager

Attachment: ETIC Case Closure Request dated June 2006

c: w/ attachment:

Mr. Robert Ehlers - Valero Energy Corporation

Ms. Conchita Hung - Dublin Valero Inc., 7840 Amador Valley Boulevard, Dublin, CA 94568-2306

c: w/o attachment:

Ms. Christa Marting - ETIC Engineering, Inc.



Case Closure Request

Former Exxon Retail Site 7-0210 7840 Amador Valley Boulevard Dublin, California

Prepared for

ExxonMobil Oil Corporation 4096 Piedmont Avenue #194 Oakland, California 94611

Prepared by

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

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Senior Project Manager

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BRYAN CAMPBELL
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Date

CONTENTS

	OF FIGU CONTA	URES AND TABLES	age
1.,	INTRO	DDUCTION	1
2.	SITE E	BACKGROUND	2
	2.1 2.2 2.3 2.4	SITE LOCATION AND LAND USE REGIONAL GEOLOGY AND HYDROGEOLOGY SITE GEOLOGY AND HYDROGEOLOGY SUMMARY OF INVESTIGATION ACTIVITIES	3
3.	WELL	SURVEY	6
4.	RWQC	CB CRITERIA FOR LOW RISK GROUNDWATER CASE	7
5.	SUMM	MARY	11
REFE	RENCE	S	12
FIGUT TABL			
APPE	NDIX A NDIX B NDIX C	3: Hydrographs	

LIST OF FIGURES AND TABLES

Former Exxon RS 7-0210

Number	<u>Description</u>
Figures	
1	Site location and topography map.
2	Vicinity map showing offsite boring locations.
3	Site plan showing groundwater elevations, rose diagram and analytical results.
4	Site location map showing wells located within a 2-mile radius.
Tables	
1	Well construction details.
2	Groundwater monitoring data.
.3	Soil sample analytical results.
4	Groundwater grab sample analytical results for temporary borings.
5	Summary of groundwater sampling attempts, 26 February 2003.
6	Wells located within one-mile radius of the site.
7	Tier 1 environmental screening levels for shallow soil (direct exposure).
8	Tier 1 environmental screening levels for soil (potential vapor intrusion concerns).
9	Tier 1 environmental screening levels for groundwater (potential vapor intrusion concerns).

SITE CONTACTS

Station Number: Former Exxon Retail Site 7-0210

Station Address: 7840 Amador Valley Boulevard

Dublin, California

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1.0 INTRODUCTION

At the request of ExxonMobil Oil Corporation (ExxonMobil), ETIC Engineering, Inc. (ETIC) has prepared this Case Closure Request for former Exxon Retail Station (RS) 7-0210, located at 7840 Amador Valley Boulevard, Dublin, California (Figure 1).

During a meeting on 27 October 2005, between representatives of ExxonMobil, ETIC, and the Alameda County Health Care Services Agency (ACHCSA), the closure of the site was discussed and it was decided that a case closure request would be submitted.

This report summarizes site history, previous investigations and remedial actions, water well locations in the vicinity, and presents an evaluation of the site with respect to the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) criteria for a low risk groundwater case as defined by the RWQCB Interim Guidance on Required Cleanup at Low Risk Fuel Sites (RWQCB 1996). The information presented in this report indicates that the site meets the RWQCB Low Risk criteria, and a review for case closure is requested.

2.0 SITE BACKGROUND

2.1 SITE LOCATION AND LAND USE

Former Exxon RS 7-0210 is located at 7840 Amador Valley Boulevard, Dublin, California, on the eastern corner of the intersection of Amador Valley Boulevard and Regional Street (Figure 2). Land use in the area is a mixture of residential and commercial. The immediate vicinity of the site is commercial, consisting of shopping malls and parking lots. A Unocal service station with underground storage tanks is located on the southwestern corner of the intersection. The site is located on essentially flat terrain at an elevation of approximately 340 feet. Topography in the area slopes gently to the southeast.

Three 12,000-gallon double-walled fiberglass underground storage tanks (USTs) exist at the site. A station building is situated in the southern end of the property. ExxonMobil sold the property to Valero Energy Corporation in June 2000 and the site is currently being operated as an active Valero-branded station by Dublin Valero, Inc.

2.2 REGIONAL GEOLOGY AND HYDROGEOLOGY

The site is located in the north central part of Alameda County, near the Amador and Livermore valleys within the Central Coast Ranges California Geomorphic Province. The Amador Valley slopes generally to the south toward Alameda Creek. The Livermore Valley slopes generally westward and intersects the Amador Valley. Materials underlying the site area are Quaternaryage alluvial sediments that were deposited by erosion from upland surfaces bordering the Livermore Valley. These sediments are weakly indurated and consist of interbedded mudstone, sandstone, and pebble conglomerate (Dibblee and Darrow 1981). The pebble conglomerate is a significant regional formation known as the Livermore Gravels. In the area of the subject site these sediments are estimated to be as much as several hundred feet thick. Bedrock at depth beneath these sediments consists of Cretaceous-aged deep sea sedimentary fan deposits of the Great Valley Sequence.

The site is located in the Dublin sub-basin, which is in the western part of the Livermore Valley groundwater basin (DWR 1963). The unconsolidated to semi-consolidated alluvium in the valley is the main groundwater-bearing zone in the Livermore Valley groundwater basin, which is under unconfined conditions. Runoff from adjacent highlands and seepage from local streams recharge the alluvial aquifer. The regional groundwater flow follows the topography, moving from areas of higher elevation to areas of lower elevation. The direction of groundwater flow in the area of the site is generally eastward toward the center of the Amador-Livermore Valley. Most of the drainiage into the Amador-Livermore Valley area outlets along the Calvaeras fault zone (in the East Bay Hills to the southwest), then the west via Niles Canyon across the couthern oortion of the East Bay Hills (Dibblee and Darrow 1981).

The nearest surface water body to the site is an intermittent creek that drains Martin Canyon, located approximately 0.25 miles to the northwest. Dublin Creek, also an intermittent stream, is located approximately 0.5 miles to the south (Figure 1).

2.3 SITE GEOLOGY AND HYDROGEOLOGY

The site geology has been evaluated to a depth of 27.5 feet below ground surface (bgs) using data collected during previous investigations. The subsurface is characterized by alluvial sediments consisting of clays, silts, sands, and gravels. The soil encountered offsite generally consists of silty sand/sandy silt to approximately 8.5 feet bgs, clayey silt/silty clay to a depth of 12 feet bgs, and a sand/gravel later approximately 13.5 feet thick to a depth of 26 feet bgs. Discontinuous silt/clay layers were encountered approximately from 15 to 20 feet bgs. Groundwater was first encountered in the sand and gravel lens at a depth of approximately 16 feet bgs and stabilizated at an average depth of 14.5 feet bgs. Cross-sections were prepared based on boring logs from the installation of wells MW5 to MW7 and previous investigations (ETIC 2001a) and are provided in Appendix A. The lines of cross-section are also included in Appendix A.

Figure 3 shows the results from the May 2006 quarterly monitoring event (ETIC 2006). The direction of groundwater flow has historically been to the southeast with a hydraulic gradient ranging from 0.003 to 0.005. The depth to water below top-of-casing in wells MW5 to MW7 has ranged from 8.45 feet (MW7, 5/3/06) to 14.14 feet (MW5, 11/5/01). Hydrographs for wells MW5 to MW7 are provided in Appendix B. A well construction table is provided as Table 1 and the groundwater monitoring data is provided as Table 2.

2.4 SUMMARY OF INVESTIGATION ACTIVITIES

Former Exxon RS 7-0210 was owned and operated by Texaco until 1988, when it was purchased by Exxon. In February 1990, Exxon replaced product dispensers and installed a vapor recovery system. A soil boring (SB1) was advanced by Alton Geoscience in October 1991. The location of the soil boring is presented on Figure 2. TPH-g and benzene were detected in SB1 at 15.5-16 feet bgs at 69 micrograms per kilogram (mg/kg) and 0.045 mg/kg, respectively (EA 1992).

In October 1991, Exxon replaced three former 8,000-gallon single-walled steel USTs with the existing three 12,000-gallon double-walled fiberglass-reinforced plastic (FRP) tanks. The locations of the former and existing tanks are indicated in Figure 2.

Confirmation soil samples (TG1-TG8) were collected from native soil beneath the single-walled steel USTs and from the sidewalls of the tank pit after the tanks were removed. A map showing the locations of these samples is included in Appendix C. The analytical results are presented in Table 3. Maximum concentrations of TPH-g and benzene were detected in the sample from the southeastern corner of the former tank field in TG4-14' at 1,000 mg/kg and 1.2 mg/kg, respectively. Additional soil was excavated to 16 feet bgs where groundwater was encountered and soil samples TG9-TG11 were collected. After over-excavation activities were complete, the maximum TPH-g and benzene concentrations were detected in the southeastern corner of the former tank field in TG9-16' at 300 mg/kg and 0.68 mg/kg, respectively. Soil samples NP1-NP4 were collected from the new tank field excavation prior to tank installation. TPH-g and BTEX were not detected above the laboratory reporting limits in any of these samples (EA 1991). Maps showing the locations of these samples are included in Appendix C.

The product piping was also upgraded to double-walled FRP during tank installation activities. Soil samples PL1-PL6 were collected at 2.5 feet bgs from the product piping trench. TPH-g and BTEX were not detected above laboratory reporting limits in these samples. The locations of the samples are also presented on a map included in Appendix C, and the analytical results are included in Table 3 (EA 1991).

Groundwater monitoring wells MW1-MW4 were installed in May 1992 (EA 1992). Soil samples collected from MW1-MW4 did not contain TPH-g or BTEX above laboratory reporting limits (Table 3). These monitoring wells were sampled 12 times from May 1992 to June 1995. During the June 1995 groundwater sampling event, TPH-g and BTEX were not detected above laboratory reporting limits, while MTBE was detected in wells MW1 and MW2 at 230 and 59 µg/L, respectively (EA 1995). These wells were destroyed in April 1996 (EA 1996), as authorized by the ACHCSA and the Regional Water Quality Control Board in a March 1996 site closure letter to Exxon (ACHCSA 1996). The locations of these former wells are presented in Figure 2. The well construction details are presented in Table 1, and analytical results for groundwater samples collected from these wells are presented in Table 2.

In November 1998, a baseline environmental assessment was conducted at the site (EA 1999). Four soil borings (B1-B4) were advanced, and soil and groundwater grab samples were collected. The samples were analyzed for TPH-g, TPH-d, BTEX, and MTBE. TPH-g and BTEX were not detected in any of the soil samples collected during the investigation. MTBE was detected in only one sample (B1, 15-16 feet bgs), at a concentration of 0.78 mg/kg. TPH-d was detected at concentrations ranging from 1.1 to 2.1 mg/kg in the four samples collected from B1-B4 at 5 feet bgs. Table 3 summarizes the analytical results for these soil samples.

BTEX and TPH-g were not detected above laboratory reporting limits in any of the grab groundwater samples collected during the investigation with the exception of toluene (1.7 μ g/L) and TPH-g (100 μ g/L), detected in the sample collected from B1. MTBE was detected by EPA Method 8260 at a concentration of 4,000 μ g/L in the groundwater sample collected from B1 and at a concentration of 19 μ g/L in the sample collected from B2 (EA 1999). Table 4 summarizes the groundwater grab sample analytical results. Table 5 summarizes the sampling attempts for the temporary borings.

A letter report was prepared by ETIC presenting analytical results of split samples collected on behalf of ExxonMobil during the Valero Energy Corporation subsurface investigation at the site on 20 April 2000. Soil borings 70210-1 and 70210-2 were advanced to collect groundwater samples. The locations of these soil borings are presented in Figure 2. TPH-g and MTBE were detected at concentrations of 140 μ g/L and 190 μ g/L, respectively, in sample 70210-2 (ETIC 2000).

In November 2000, three groundwater monitoring wells (MW5-MW7) were installed at the site (ETIC 2001a). TPH-g and benzene were not detected in any of the soil samples at concentrations above laboratory reporting limits. MTBE was detected at concentrations of 0.023 mg/kg in MW5 (13-13.5 feet) and 0.018 mg/kg in MW6 (13-13.5 feet) using EPA Method 8021B. The results of analysis of these samples by EPA Method 8260B did not detect MTBE above the laboratory reporting limits. MTBE was not detected in samples from MW7. Well construction details are summarized in Table 1, and soil sample analytical results are summarized in Table 3.

In October 2001, a Conceptual Site Model Report was prepared for the site at the request of the ACHCSA. The conceptual site model (CSM) was developed for the site to document sources of chemicals, affected media and transport mechanisms, and potential exposure pathways and receptors. As part of developing the CSM, a well search was conducted to locate wells within a 1-mile radius of the site, which can be found in Figure 4 and noted in Table 6. The results of the exposure pathway evaluation and well search indicated that there is no potential for direct contact with groundwater at the site, potential offsite migration of chemicals from the site to wells is negligible, direct exposure to groundwater at offsite locations is considered incomplete, and risks associated with residual levels of hydrocarbons beneath the site are considered negligible (ETIC 2001b).

In February 2003, ETIC observed the installation of four soil borings (B5-B8) in the vicinity of former Exxon RS 7-0210 to investigate the impact of MTBE to soil and groundwater offsite. In soil, benzene was detected at a maximum concentration of 0.002 mg/kg in a soil sample from B8 and MTBE was detected at a maximum concentration of 0.0291 mg/kg (EPA 8260B) in B5. TPH-g, TPH-d, ETBE, TAME, DIPE, TBA, EDB, and 1,2-DCA were not detected in any of the soil samples at concentrations equal to or above laboratory reporting limits. In groundwater, MTBE was detected at a maximum concentration of 35.3 μg/L (EPA 8260B) and TPH-d was detected at a maximum concentration of 116 μg/L in B5. Benzene, TPH-g, ETBE, TAME, DIPE, TBA, EDB, and 1,2-DCA were not detected in any of the groundwater samples at concentrations equal to or above laboratory reporting limits (ETIC 2003).

Quarterly groundwater monitoring of wells MW5-MW7 has been conducted since November 2000. Groundwater monitoring results are presented in Table 2. The most recent groundwater analytical results, for samples collected during the May 2006 event are presented in Figure 3. A quarterly groundwater monitoring report was submitted under separate cover (ETIC 2006).

3.0 WELL SURVEY

The well search for former Exxon RS 7-0210 was performed to identify wells within a 1-mile radius of the site. This well search included (1) a review of available Department of Water Resources records as presented in Appendix C of the CSM (ETIC 2001b), (2) use of a commercially available database as presented in Appendix D of the CSM (ETIC 2001b), and (3) interviews with representatives from the Alameda County Flood Control & Water Conservation District Zone 7, the water wholesaler for the City of Dublin. Refer to the CSM for a full discussion of this well search.

Based on the well search, the nearest downgradient active public water supply well is located greater than 2 miles southeast of the site (Figure 4, well location F). There are no active public water supply wells located upgradient of the site within a 1-mile radius. There are no active domestic wells located within 2,000 feet of the site. The results of these well searches are summarized on Figure 4 and in Table 6.

4.0 RWQCB CRITERIA FOR LOW RISK GROUNDWATER CASE

The site has been evaluated with respect to the criteria for a low risk groundwater case as defined by the RWQCB Interim Guidance on Required Cleanup at Low Risk Fuel Sites (RWQCB 1996). A discussion is presented below for each of the criteria:

- 1) The leak has been stopped and ongoing sources, including free product, have been removed or remediated.
 - Three 8,000-gasoline single-walled steel USTs were excavated and removed from the site in 1991 and replaced with double-walled fiberglass USTs.
 - The product piping was also upgraded at the site in 1991.
 - Groundwater monitoring and sampling were conducted at the site after the initial installation of MW1 through MW4 in March 1992. These wells were destroyed in 1996. Three other wells, MW5 through MW7 were installed in November 2000 and groundwater monitoring resumed. Concentrations of benzene, TPH-g, and MTBE in these monitoring wells have shown decreasing trends since they were installed with concentrations at or near the laboratory reporting limits over the past year. Hydrographs for monitoring wells MW5 through MW7 are located in Appendix B.

For the above reasons, no ongoing sources are considered to be present with respect to ExxonMobil's former operations. The site is an operating service station but ExxonMobil has not owned or operated the site or UST systems since June 2000.

- 2) The site has been adequately characterized.
 - Soil impact has been characterized through extensive soil sampling, as described in Section 2.
 - The concentrations in groundwater have been defined through the installation and monitoring of seven monitoring wells (MW1 MW7) since March 1992. Numerous soil borings have been installed including boring from which depth discrete groundwater samples were collected (B1-B4 and 70210-1 and 70210-2). Three monitoring wells exist at the site (MW5-MW7).
 - The groundwater flow direction has consistently been to the southeast with a magnitude of 0.003 to 0.005.
 - Concentrations of benzene, TPH-g, and MTBE in these monitoring wells have shown decreasing trends since they were installed. During the last four quarters of groundwater monitoring, benzene was not detected above the laboratory detection limits, TPH-g was detected at a maximum concentration of 72.6 μg/L, and MTBE was detected at a maximum concentration of 10.3 μg/L.

For the above reasons, the site is considered adequately characterized.

- 3) The dissolved plume is not migrating.
 - Graphs of the concentrations of benzene, TPH-g, and MTBE in groundwater and groundwater elevation graphs versus time for the existing wells are shown in Appendix B. The data indicates decreasing trends.
 - In February 2003, ETIC observed the installation of four soil borings (B5-B8) offsite. MTBE was detected at a maximum concentration of 35.3 μg/L and benzene, TPH-g, ETBE, TAME, DIPE, TBA, EDB, and 1,2-DCA were not detected in any of the groundwater samples at concentrations equal to or above laboratory reporting limits.
 - During the most recent groundwater monitoring event in May 2006 benzene and TPH-g were not detected above the laboratory detection limits and MTBE was detected at a maximum concentration of 10.3 µg/L.

For the above reasons, the dissolved plume is considered stable.

- 4) No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted.
 - No active municipal water wells are located within a 1-mile radius of the site and no active domestic wells are located within 2,000 feet of the site.
 - The nearest surface water body to the site is an intermittent creek that drains Martin Canyon, located approximately 0.25 miles to the northwest. Dublin Creek, also an intermittent stream, is located approximately 0.5 miles to the south (Figure 1). Neither water bodies are expected to be affected by remaining hydrocarbons and MTBE associated with the site because of their distance and the decreasing concentration trends in groundwater.

For the above reasons, no water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted.

5) The site presents no significant risk to human health.

A Conceptual Site Model Report by ETIC dated October 2001 was submitted to the ACHCSA (ETIC 2001b). The report included an evaluation of the exposure pathways with respect to the published Environmental Screening Levels (ESLs) at the time. For the purpose of this report, the exposure pathways were reevaluated with respect to the latest ESLs (RWQCB 2005) as part of a Tier 1 screening of potential human health risks associated with chemicals of potential concern (COPCs) in the soil and groundwater beneath the site. The results of this screening are detailed below.

Exposure Assessment

As previously indicated, the site is an active commercial/industrial facility characterized by a paved ground surface everywhere across the site. Onsite buildings are limited to the active station building. Groundwater beneath the site occurs at approximately 11 to 12 feet bgs and there are no active water supply wells onsite or within a 1-mile radius of the site. There

are no active domestic wells located within 2,000 feet of the site. Land use down gradient of the site is predominantly commercial/light industrial.

Based on the above site conditions, potential exposure pathways and receptors were evaluated as follows:

Daily Site Occupants

Due to the presence of a paved surface across the entire site, direct exposure (incidental ingestion and dermal contact) to COPCs in soil at the site are considered incomplete for daily site occupants. Should the paved surface at the site be removed in the future, then potential direct exposure to COPCs in shallow soils (0 to 10 feet bgs) may be considered complete. Given the depth to groundwater and the absence of onsite water supply wells, direct exposure to groundwater by daily site occupants is considered incomplete. Future development of water supplies at and in the vicinity of the site is not considered likely for shallow groundwater, given the presence of regional impacts in the vicinity of the site including those from the Unocal service station located on the southwestern corner of the intersection. Due to the volatile nature of select COPCs, exposure pathways associated with emission of volatiles from soil and groundwater to indoor air may be considered complete for daily site occupants.

Future Construction/Maintenance Workers

To the extent where future construction/maintenance work at the site may involve penetration of the paved surface, then future construction/maintenance workers may also be exposed to soil COPCs in both shallow (0 to 10 feet bgs) and deep (>10 feet bgs) soils. Given the depth to groundwater, it is not likely that construction/maintenance work will require penetration to depths corresponding to the water table; hence, construction/maintenance worker exposure to groundwater COPCs is considered incomplete. Moreover, potential exposure to groundwater by construction workers would be addressed by a site-specific worker health and safety plan and relevant dewatering options and/or use of personal protective equipment.

Offsite Receptors

Offsite land use in the immediate vicinity of the site, including the adjacent downgradient property, is limited to commercial-industrial land use. In the absence of water supply wells (within a 1-mile radius) and domestic wells (within a 2,000-foot radius), the sole potential at offsite locations for exposure to COPCs is emission of volatiles from groundwater emanating from the site. Offsite receptors may be exposed to vapor emissions from groundwater migrating from the subject site onto offsite properties. To the extent where nearby offsite properties have the same land use (i.e., commercial/industrial) as the subject property and COPC concentrations in groundwater beneath offsite locations will necessarily be less than those onsite, then the results of the onsite groundwater to indoor air pathway may be used to conservatively evaluate the significance, if any, of the offsite groundwater to indoor air pathway.

Tier I Screening of Potential Health Risks

As the first step toward evaluation of potential health risks associated with COPCs at the site, a highly conservative Tier I analysis was performed. This analysis consisted of comparison of site maximum soil and groundwater concentrations to relevant ESLs adopted by the San Francisco Bay Regional Water Quality Control Board ([RWQCB], 2005) and corresponding to each of the complete exposure pathways discussed above. This comparison is summarized in Tables 7 through 9.

Table 7 summarizes a comparison of maximum historical shallow soil (0 to 10 feet bgs) concentrations versus highly conservative ESLs corresponding to direct exposure by commercial/industrial workers and future construction/trench workers. As indicated in this table, none of the COPCs detected in shallow soils at the site exceed the conservative ESLs.

Table 8 summarizes a comparison of maximum COPC concentrations in soil (>10 feet bgs) to commercial/industrial cancer and non-cancer end-point ESLs for indoor air exposure pathway. As seen in this table, the estimated total cumulative carcinogenic risk is 1.47×10^{-6} , which is within the EPA's target risk range of 1×10^{-4} to 1×10^{-6} for commercial/industrial land use. The cumulative non-carcinogenic hazard is 1.34×10^{-2} , which is significantly less than the RWQCB's Tier 1 ESL target hazard quotient of 0.2 for non-carcinogenic effects.

Table 9 summarizes a comparison of maximum COPC concentrations in groundwater beneath the site over the last four quarters of sampling (August 2005 to May 2006) to ESLs for groundwater to indoor air exposure pathway corresponding to commercial/industrial onsite land use. As indicated in the table, none of the COPCs groundwater concentrations over the last four quarters exceed the ESLs.

Based on the above screening, site-related COPCs in soil and groundwater do not pose significant health risks to current and future onsite occupants.

- 6) The site presents no significant risk to the environment.
 - The nearest surface water body to the site is an intermittent creek that drains Martin Canyon, located approximately 0.25 miles to the northwest. Dublin Creek, also an intermittent stream, is located approximately 0.5 miles to the south (Figure 1). Neither water bodies are expected to be affected by remaining hydrocarbons and MTBE associated with the site because of their distance and the decreasing concentration trends in groundwater.

Based on the above evaluation, the site meets the RWQCB's "Low Risk" groundwater criteria.

5.0 SUMMARY

The following summarizes the environmental activities performed at former Exxon Retail Station 7-0210 and establishes the basis for site closure:

- Three 8,000-gasoline single-walled steel USTs were excavated and removed from the site in 1991 and replaced with double-walled fiberglass USTs.
- Groundwater monitoring and sampling was conducted at the site after the initial installation of MW1 through MW4 in March 1992. These wells were destroyed in 1996. Three other wells, MW5 through MW7 were installed in November 2000 and groundwater monitoring resumed. Concentrations of benzene, TPH-g, and MTBE in these monitoring wells have shown decreasing trends since they were installed with concentrations at or near the laboratory reporting limits over the past year.
- Soil impact has been characterized through extensive soil sampling, as described in Section 2 and groundwater has been defined through the installation and monitoring of seven monitoring wells (MW1 MW7) since March 1992.
- During the most recent groundwater monitoring event in May 2006 benzene and TPH-g were not detected above the laboratory detection limits and MTBE was detected at a maximum concentration of 10.3 μg/L.
- No active municipal water wells are located within a 1-mile radius of the site and no active domestic wells are located within 2,000 feet of the site.
- Based the evaluation of exposure pathways with respect to the latest ESLs as part of a Tier 1 screening of potential human health risks, site-related COPCs in soil and groundwater do not pose significant health risks to current and future onsite occupants.

On the basis of current site conditions, a review for case closure is requested.

6.0 REFERENCES

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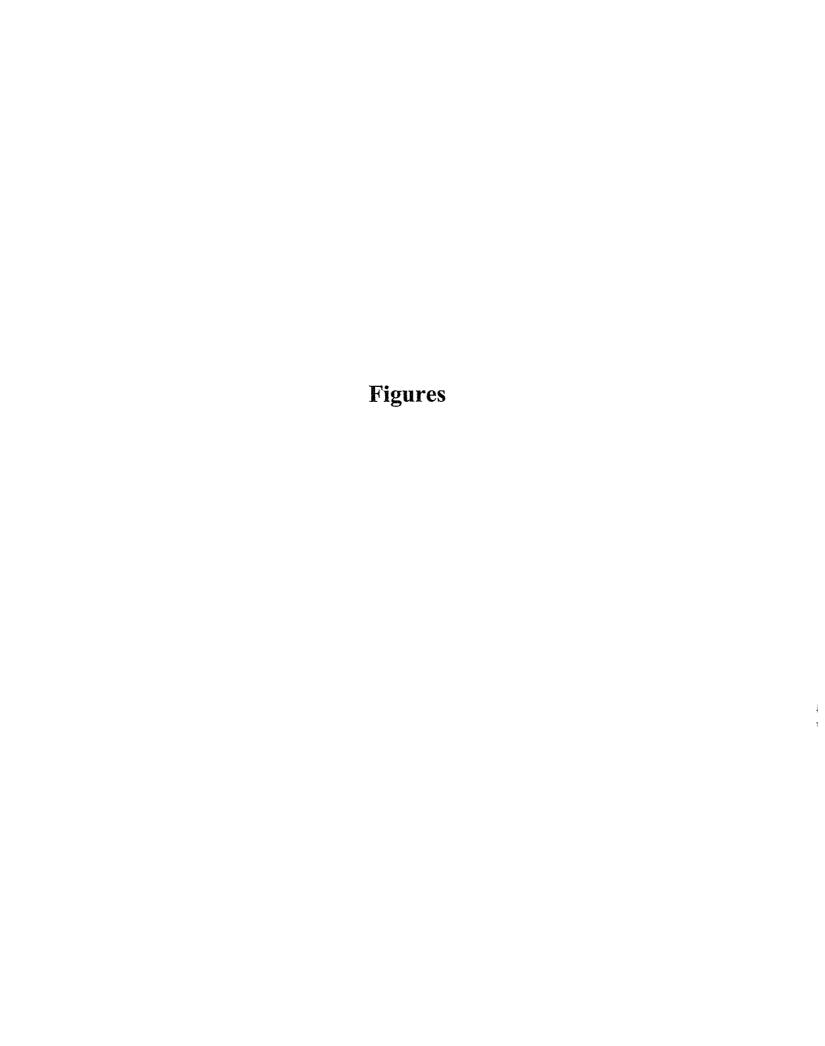
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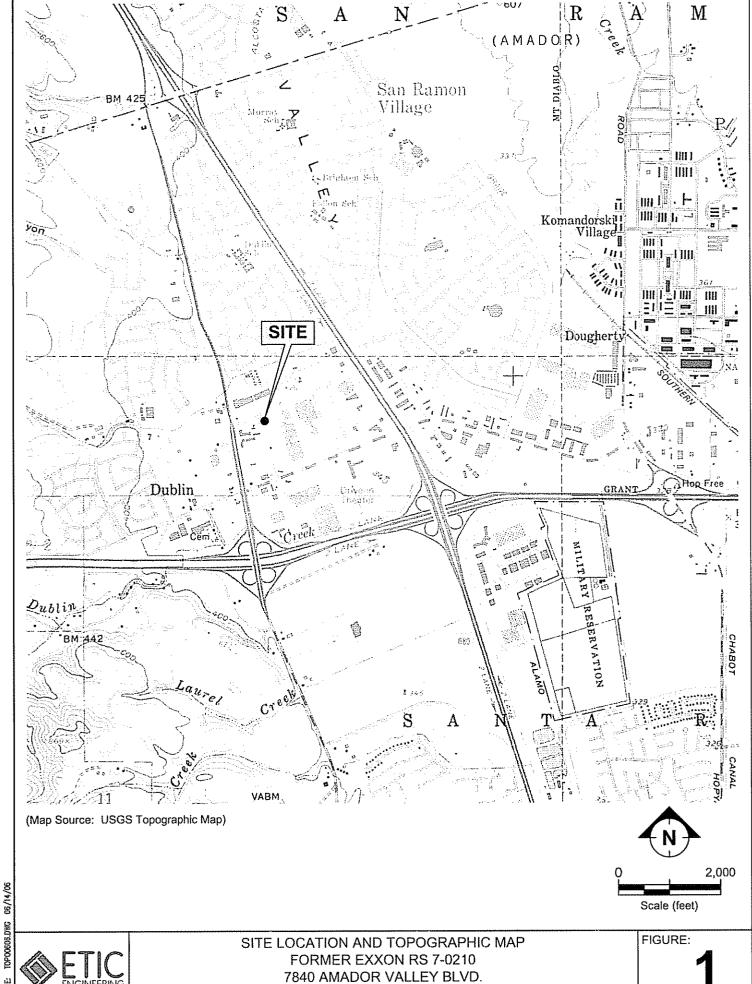
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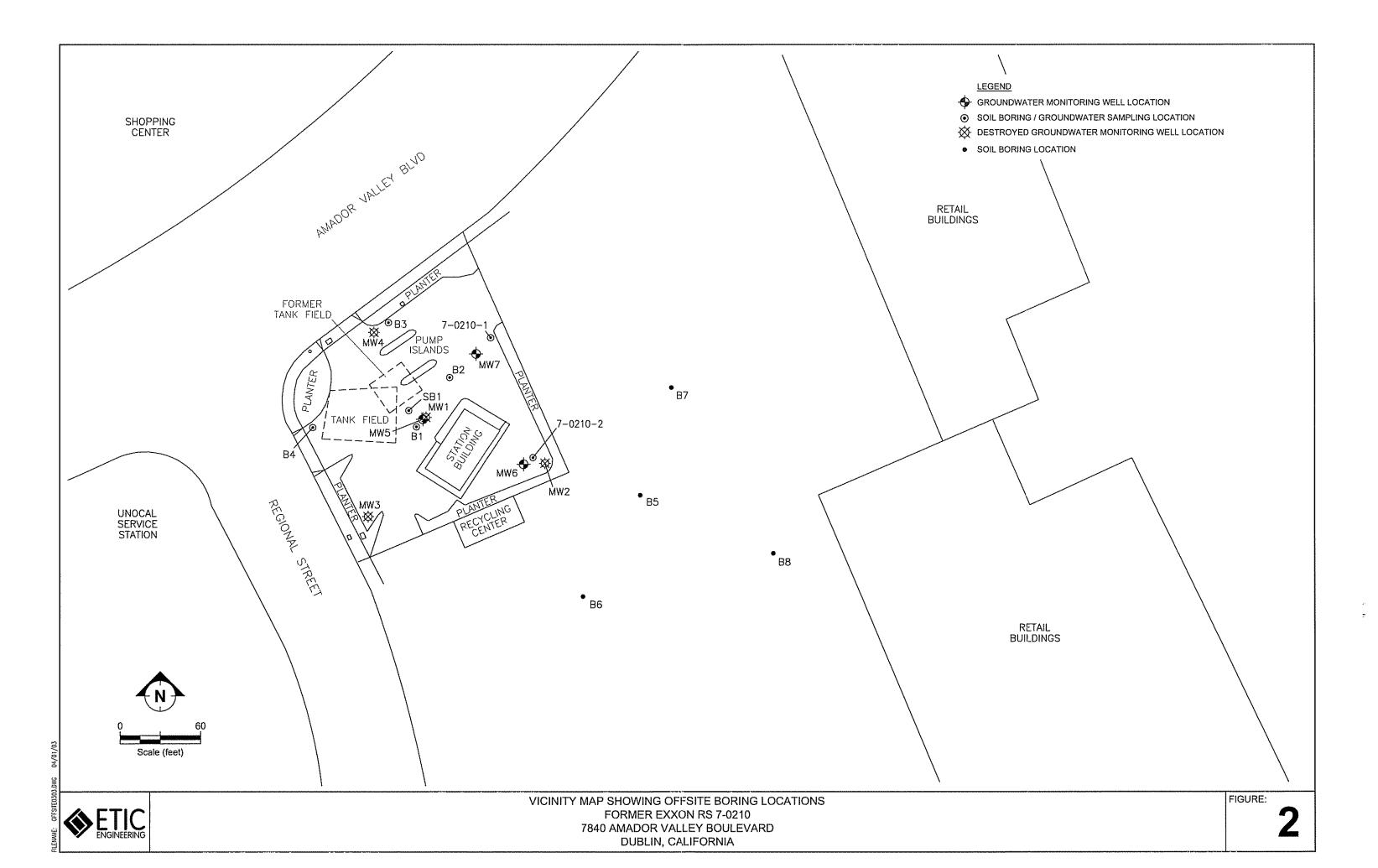
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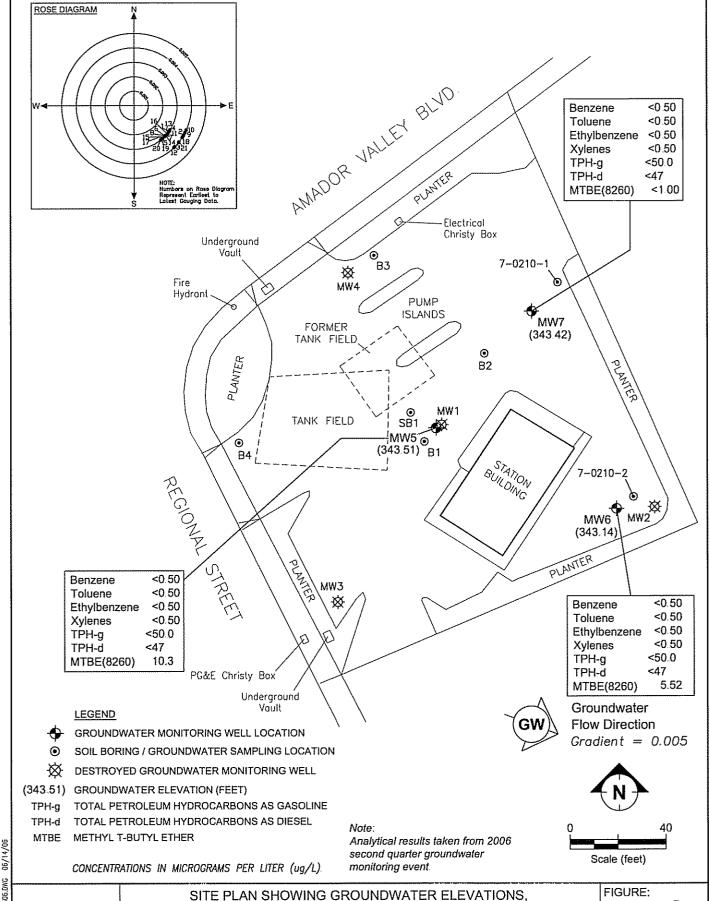
RWQCB. 2005. Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater. RWQCB, Oakland, California. February.





DUBLIN, CA

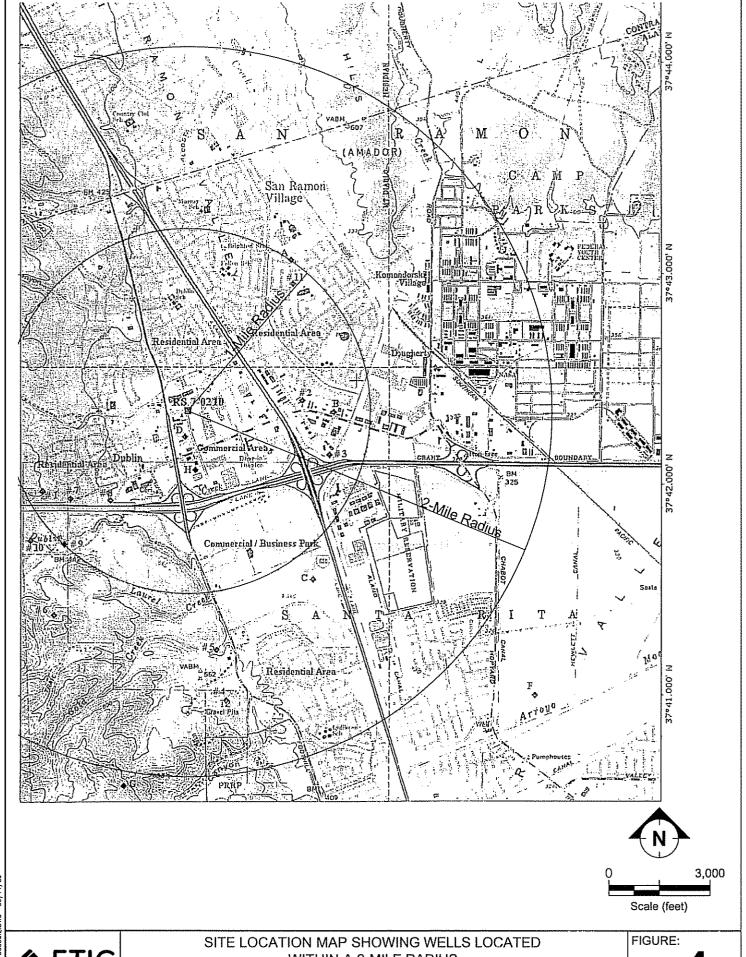




ETIC ENGINEERING

ROSE DIAGRAM AND ANALYTICAL RESULTS
FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BLVD., DUBLIN, CA.
3 MAY 2006

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SENG

SITE LOCATION MAP SHOWING WELLS LOCATED WITHIN A 2-MILE RADIUS FORMER EXXON RS 7-0210 7840 AMADOR VALLEY BLVD., DUBLIN, CA

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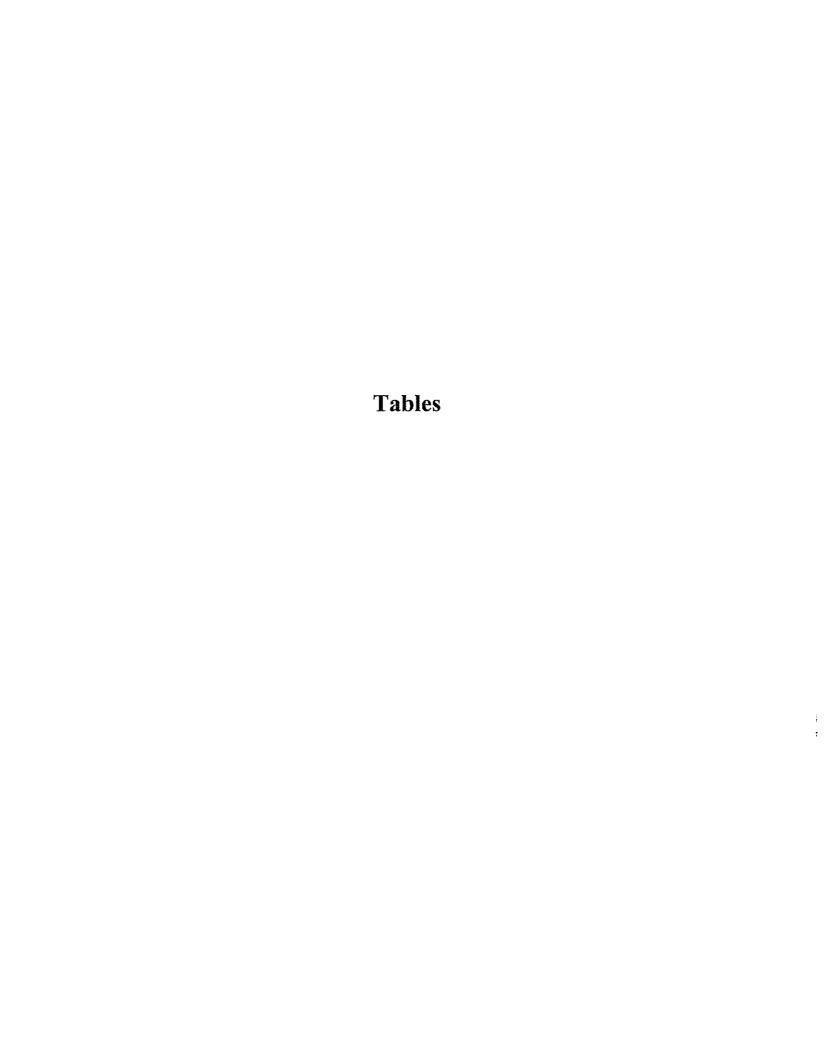


TABLE 1 WELL CONSTRUCTION DETAILS, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Well Isntallation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
MW1 a	04/14/92	96.32	PVC	26.5	24.75	10.25	4	11-24	0.010	10-25	
MW2 a	05/13/92	95.91	PVC	26	25	10.25	4	10-25	0.010	9.5-26	~
MW3 a	05/14/92	97.95	PVC	28	27.75	10.25	4	12.5-27.5	0.010	11-28	
MW4 a	05/14/92	96.69	PVC	26.5	25	10.25	4	12-25	0.010	11-26	
MW5 b	11/15/00	352.95	PVC	25	25	8.25	2	10-25	0.020	7-25	#3 sand
MW6 b	11/14/00	352.69	PVC	27	25	8.25	2	10-25	0.020	8-27	#3 sand
MW7 b	11/14/00	351.87	PVC	26	25	8.25	2	10-25	0.020	7-25	#3 sand

a Well was destroyed April 1996.

PVC Polyvinyl chloride.

TOC Top of casing.

- Information not available.

b Elevation is based on the Alameda Benchmark AM-STW. Elevation = 344.17 feet.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

										Concentraion	(μg/L)			
Well		Casing	-	Groundwater	LPH									Other
Number	Date	Elevation (feet)	Water (feet)	Elevation (feet)	Thickness (feet)	Donasas	Talman	Ethyl-	Total	TDIT	TDD11			Oxygenates
* 10111001	2,000	(1001)	(1001)	(ICCL)	(1001)	Denzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	MTBE	Ethanol	and Additives
MW1	05/21/92	96.32	14.45	81.87	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA		
MW1	02/10/93	96.32	12.22	84.10	0.00	3.1	<0.5	1.8	0.6	2,600		NA		
MW1	05/20/93	96.32	10.74	85.58	0.00	1.9	<0.5	8.1	<1.0	1,000		NA		
MW1	06/23/93	96.32	11.74	84.58	0.00	1.0	<0.5	1.2	<0.5	1,300		NA		
MWI	08/23/93	96.32	12.72	83.60	0.00	<0.5	<0.5	<0.5	0.8	80		NA		
MWI	10/25/93	96.32	13.99	82.33	0.00	< 0.5	<0.5	0.8	1.3	140		NA		
MW1	02/16/94	96.32	14.90	81.42	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA		
MWI	04/16/94	96.32	14.49	81.83	0.00	<0.5 ^b	<0.5	<0.5	<0.5	190		NA		
MW1	07/26/94	96.32	15.11	81.21	0.00	<0.5 ^b	< 0.5	<0.5	<0.5	130		NA		
MW1	10/05/94	96.32	15.69	80.63	0.00	< 0.5	< 0.5	< 0.5	<0.5	<50		NA		
MWI	01/04/95	96.32	14.66	81.66	0.00	< 0.5	< 0.5	<0.5	<0.5	<50		NA		
MW1	06/12/95	96.32	10.08	86.24	0.00	< 0.5	< 0.5	< 0.5	<0.5	<50		230		
MW1			Well destre	oyed April 199	5.							250		
				•										
MW2	05/21/92	95.91	14.30	81.61	0.00	<0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW2	02/10/93	95.91	12.34	83.57	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW2	05/20/93	95.91	10.73	85.18	0.00	< 0.5	< 0.5	< 0.5	<1.0	320		NA		
MW2	06/23/93	95.91	11.74	84.17	0.00	< 0.5	< 0.5	< 0.5	< 0.5	130		NA		
MW2	08/23/93	95.91	12.60	83.31	0.00	< 0.5	< 0.5	< 0.5	1.1	140		NA		
MW2	10/25/93	95.91	13.86	82.05	0.00	< 0.5	< 0.5	0.5	2.4	75		NA		
MW2	02/16/94	95.91	14.73	81.18	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW2	04/16/94	95.91	14.33	81.58	0.00	< 0.5	<0.5	< 0.5	< 0.5	<50		NA		
MW2	07/26/94	95.91	14.96	80.95	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW2	10/05/94	95.91	15.49	80.42	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW2	01/04/95	95.91	14.44	81.47	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW2	06/12/95	95.91	10.10	85.81	0.00	< 0.5	< 0.5	< 0.5	<0.5	<50		59		

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

									C	Concentrator	ι (μg/L)			
		Casing	-	Groundwater	LPH									Other
Well	_	Elevation	Water	Elevation	Thickness	-		Ethyl-	Total					Oxygenates
Number	Date	(feet)	(feet)	(feet)	(feet)	Benzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	MTBE	Ethanol	and Additives
MW2			Well destr	oyed April 199	6.									
MW3	05/21/92	97.95	16.05	81.90	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW3	02/10/93	97.95	13.77	84.18	0.00	< 0.5	< 0.5	< 0.5	0.7	<50		NA		
MW3	05/20/93	97.95	12.32	85.63	0.00	< 0.5	< 0.5	< 0.5	<1.0	<50		NA		
MW3	06/23/93	97.95	13.34	84.61	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW3	08/23/93	97.95	14.30	83.65	0.00	2.3	1.2	1.4	4.1	<50		NA		
MW3	10/25/93	97.95	15.62	82.33	0.00	NS	NS	NS	NS	NS		NS		
MW3	02/16/94	97.95	16.48	81.47	0.00	NS	NS	NS	NS	NS		NS		
MW3	04/16/94	97.95	16.61	81.34	0.00	NS	NS	NS	NS	NS		NS		
MW3	07/26/94	97.95	16.72	81.23	0.00	< 0.5	< 0.5	< 0.5	< 0.5	< 50		NA		
MW3	10/05/94	97.95	17.33	80.62	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW3	01/04/95	97.95	16.29	81.66	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW3	06/12/95	97.95	11.67	86.28	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		<2.5		
MW3			Well destr	oyed April 199	6.									
MW4	05/21/92	96.69	14.59	82.10	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW4	02/10/93	96.69	12.30	84.39	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW4	05/20/93	96.69	10.75	85.94	0.00	1.4	1.0	< 0.5	1.8	<50		NA		
MW4	06/23/93	96.69	11.78	84.91	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW4	08/23/93	96.69	12.82	83.87	0.00	< 0.5	< 0.5	< 0.5	0.8	<50		NA		
MW4	10/25/93	96.69	14.10	82.59	0.00	NS	NS	NS	NS	NS		NS		
MW4	02/16/94	96.69	15.02	81.67	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW4	04/16/94	96.69	14.61	82.08	0.00	NS	NS	NS	NS	NS		NS		
MW4	07/26/94	96.69	15.23	81.46	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		NA		
MW4	10/05/94	96.69	15.85	80.84	0.00	< 0.5	12	< 0.5	< 0.5	<50		NA		

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TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

									C	Concentra	ion ((μg/L)			
Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	ТРН-g		TPH-d	MTBE	Ethanol	Other Oxygenates and Additives
MW4	01/04/95	96.69	14.84	81.85	0.00	< 0.5	< 0.5	< 0.5	<0.5	<50			NA		
MW4	06/12/95	96.69	10.07	86.62	0.00	< 0.5	< 0.5	< 0.5	<0.5	< 50			<2.5		
MW4			Well destr	oyed April 199	96.										
MW5	06/15/00	STATION	OPERATI	ONS TRANSI	ERRED TO) VALER	O ENERG	Y CORPO	DRATION						
MW5	11/17/00	352.93	13.51	339.42	0.00	< 0.5	< 0.5	< 0.5	2.46	240			1,500		
MW5	11/17/00	352.93											1,600°		
MW5	02/02/01	352.93	13.81	339.12	0.00	< 0.5	< 0.5	< 0.5	< 0.5	110			1,400		
MW5	02/02/01	352.93											1,200°		
MW5	05/09/01	352.93	12.20	340.73	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50			770 ^a		ND^{c}
MW5	09/12/01	352.93	13.84	339.09	0.00	< 0.5	< 0.5	< 0.5	< 0.5	100			760		NA
MW5	09/12/01	352.93											800^{a}		
MW5	11/05/01	352.95	14.14	338.81	0.00	< 0.5	< 0.5	< 0.5	0.61	70		86	510		NA
MW5	11/05/01	352.95											420°		
MW5	02/04/02	352.95	11.85	341.10	0.00	< 0.5	< 0.5	< 0.5	< 0.5	381	d	<50	630		NA
MW5	02/04/02	352.95											525°		
MW5	04/26/02	352.95	11.75	341.20	0.00	< 0.5	< 0.5	< 0.5	< 0.5	322	d	<50	378		NA
MW5	04/26/02	352.95											312 ⁿ		
MW5	07/30/02	352.95	12.87	340.08	0.00	< 0.5	< 0.5	< 0.5	< 0.5	97.8	d	< 50	126		NA
MW5	07/30/02	352.95											132 ^a		
MW5	11/05/02	352.95	14.13	338.82	0.00	< 0.5	< 0.5	< 0.5	< 0.5	74.2	d	<50	80.0		NA
MW5	11/05/02	352.95											96.4ª		
MW5	01/24/03	352.95	11.23	341.72	0.00	< 0.5	< 0.5	< 0.5	< 0.5	542	d	70	678		NA
MW5	01/24/03	352.95											509 ^a		
MW5	04/24/03	352.95	10.79	342.16	0.00	< 0.5	< 0.5	< 0.5	< 0.5	384	d	<50	522		NA
MW5	04/24/03	352.95											498 ^a		

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

									C	Concentra	ion	(μg/L)			
*** 11		Casing	•	Groundwater	LPH			w							Other
Well Number	Date	Elevation (feet)	Water (feet)	Elevation (feet)	Thickness (feet)	Benzene	Taluana	Ethyl- benzene	Total Xylenes	TPH-g		TPH-d	MTBE	Ethanol	Oxygenates and Additives
Number	Date	(1661)	(1661)	(1661)	(leet)	Delizelle	Toluelle	Delizelle	Aylelles	IFM-g		IPH-U	WILDE	Emanor	and Additives
MW5	08/05/03	352.95	12,24	340.71	0.00	<0.5	1.6	<0.5	1.3	282	d	<50	560		NA
MW5	08/05/03	352.95											428ª		
MW5	10/17/03	352.95	13.64	339.31	0.00	< 0.5	1.6	< 0.5	0.9	229	d	< 50	284		NA
MW5	10/17/03	352.95											272ª		
MW5	01/28/04	352.95	12.41	340.54	0.00	< 0.5	0.9	< 0.5	1.1	283	d	NA e	485		NA
MW5	01/28/04	352.95											453ª		
MW5	04/16/04	352.95	11.67	341.28	0.00	< 0.5	< 0.5	< 0.5	< 0.5	163	d	<50	200°	<100°	NA
MW5	08/03/04	352.95	13.39	339.56	0.00	< 0.5	< 0.5	< 0.5	0.1	553	d	<50	92.8ª	<100°	NA
MW5	11/04/04	352.95	13.17	339.78	0.00	< 0.5	< 0.5	< 0.5	< 0.5	117	d	<50	117ª	<100 ^a	ND^c
MW5	02/16/05	352.95	10.81	342.14	0.00	< 0.50	< 0.5	< 0.5	< 0.5	<50.0	d	< 50	43.2 ^a	<100°	NA
MW5	05/16/05	352.95	9.92	343.03	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50	d	<50	29.5°	<100°	NA
MW5	08/17/05	352.95	11.84	341.11	0.00	< 0.5	< 0.5	< 0.5	< 0.5	< 50	d	<50	2.29 ^a	<100°	NA
MW5	11/17/05	352.95	13.77	339.18	0.00	< 0.5	< 0.5	< 0.5	1.18	72.6	d	<50	1.02ª	<50°	ND^c
MW5	02/06/06	352.95	11.73	341.22	0.00	< 0.5	< 0.5	< 0.5	< 0.5	< 50	d	<50	1.1 ^a	NA	ND°
MW5	05/03/06	352.95	9.44	343.51	0.00	< 0.50	< 0.50	< 0.50	< 0.50	<50.0	d	<47	10.3ª	NA	ND^c
MW6	06/15/00	STATION	OPERATI	IONS TRANSI	EPPED TO	VALER	O ENERG	V CORPC	D A TION						
MW6	11/17/00	352.66	13.47	339.19	0.00	<0.5	<0.5	<0.5	< 0.5	<50			270		
MW6	11/17/00	352.66	1,7.77	337.17	0.00	٧٠.5	~0.5	-0.5	-0.5	~50			260 ^a		
MW6	02/02/01	352.66	13.79	338.87	0.00	< 0.5	<0.5	< 0.5	<0.5	<50			160		
MW6	02/02/01	352.66	13.75	330.07	0.00	٠٥.5	٧٠.5	٧٠.٥	70.5	\50			130°		
MW6	05/09/01	352.66	12.25	340.41	0.00	< 0.5	<0.5	<0.5	<0.5	<50			760 ^a		ND^c
MW6	09/12/01	352.66	13.83	338.83	0.00	<0.5	<0.5	<0.5	<0.5	<50			680		NA
MW6	09/12/01	352.66	13.03	550.05	0.00	~0. 3	~0.5	~0.5	~0.5	~50			740°		INT.
MW6	11/05/01	352.69	14.11	338.58	0.00	<0.5	<0.5	<0.5	<0.5	<50		<50	390		NA
MW6	11/05/01	352.69	1 4.11	JJ 0.J 0	0.00	-0.5	-0.5	-0.5	-0.5	-50		-50	320°		1417
		C C 344 C 3													

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TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

									C	Concentra	ıon	(μg/L)			
		Casing	Depth to	Groundwater	LPH										Other
Well	D	Elevation	Water	Elevation	Thickness	D	Toluene	Ethyl-	Total Xylenes	трн-д		TPH-d	MTBE	Ethanol	Oxygenates and Additives
Number	Date	(feet)	(feet)	(feet)	(feet)	Benzene	roluene	benzene	Aylenes	rrn-g		Irn-u	MIDE	Ethanoi	and Additives
MANAG	02/27/02	352.69	11.77	340.92	0.00	<5.0	<5.0	8.00	<5.0	1,380	d	NA	1,310		$ND^{\mathfrak{c}}$
MW6			11.//	340.92	0.00	\ 3.0	~3.0	0.00	√ J.U	1,500	u	INA	1,410°		ND
MW6	02/27/02	352.69	1175	240.04	0.00	<0.5	<0.5	< 0.5	< 0.5	422	d	<50	482		NA
MW6	04/26/02	352.69	11.75	340.94	0.00	<0.5	<0.3	<0.5	~0.3	422	u	<20	430°		IVA
MW6	04/26/02	352.69	12.00	220.01	0.00	-2.5	-2.5	-2 E	<2.5	1.4.4	ند	<50	166		NA
MW6	07/30/02	352.69	12.88	339.81	0.00	<2.5	<2.5	<2.5	<2.3	144	d	<30	185°		INA
MW6	07/30/02	352.69		222.55	0.00	-0.5	10.5	-0.7	*O C	00.7		-50			D.I.A.
MW6	11/05/02	352.69	14.12	338.57	0.00	<0.5	<0.5	< 0.5	<0.5	99.7	d	<50	114		NA
MW6	11/05/02	352.69							0.5	0.40	,	0.4	118 ^a		NT.
MW6	01/24/03	352.69	11.32	341.37	0.00	<0.5	<0.5	<0.5	< 0.5	342	d	84	388		NA
MW6	01/24/03	352.69											293 ^a		
MW6	04/24/03	352.69	10.84	341.85	0.00	< 0.5	< 0.5	< 0.5	< 0.5	370	d	<50	509		NA
MW6	04/24/03	352.69											491ª		
MW6	08/05/03	352.69	12.25	340.44	0.00	< 0.5	< 0.5	< 0.5	< 0.5	967	d	<50	1,240		NA
MW6	08/05/03	352.69											1,010 ^a		
MW6	10/17/03	352.69	13.63	339.06	0.00	< 0.5	1.2	<0.5	0.5	476	d	<50	528		NA
MW6	10/17/03	352.69											535 ^a		
MW6	01/28/04	352.69	12.40	340.29	0.00	< 0.5	0.8	< 0.5	0.9	154	d	<50	283		NA
MW6	01/28/04	352.69											244ª		
MW6	04/16/04	352.69	11.68	341.01	0.00	< 0.5	< 0.5	< 0.5	< 0.5	219	d	<50	301 ^a	<100°	NA
MW6	08/03/04	352.69	13.37	339.32	0.00	< 0.5	< 0.5	< 0.5	< 0.5	243	d	<50	62.3 ^a	<100°	NA
MW6	11/04/04	352.69	13.13	339.56	0.00	< 0.5	< 0.5	< 0.5	< 0.5	< 50	d	<50	25.0^{a}	<100°	ND^{c}
MW6	02/16/05	352.69	10.77	341.92	0.00	< 0.50	0.8	< 0.5	1.4	53.5	d	<50	52.3°	<100°	NA
MW6	05/16/05	352.69	9.98	342.71	0.00	< 0.5	< 0.5	< 0.5	1.2	59.7	d	<50	30.1 ^a	<100°	NA
MW6	08/17/05	352.69	11.84	340.85	0.00	< 0.5	0.574	< 0.5	0.843	<50	d	< 50	4.21 ^a	<100°	NA
MW6	11/17/05	352.69	13.70	338.99	0.00	< 0.5	< 0.5	< 0.5	< 0.5	< 50	d	<50	1.45°	<50°	ND^{c}
MW6	02/06/06	352.69	11.75	340.94	0.00	<0.5	< 0.5	< 0.5	<0.5	<50	d	<50	2.7ª	NA	ND^{c}

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

									(Concentra	aion	(μg/L)			
777 11		Casing	-	Groundwater	LPH										Other
Well Number	Data	Elevation (feet)	Water	Elevation	Thickness	ъ.	m i	Ethyl-	Total	TTD I I		mmrr /		w	Oxygenates
INUITIDEL	Date	(leet)	(feet)	(feet)	(feet)	Benzene	Toluene	benzene	Xylenes	TPH-g		TPH-d	MTBE	Ethanol	and Additives
MW6	05/03/06	352.69	9.55	343.14	0.00	<0.50	<0.50	<0.50	<0.50	<50.0	d	<47	5.52ª	NA	ND ^c
MW7	06/15/00	STATION	OPERATI	ONS TRANSF	ERRED TO) VALER(O ENERG	Y CORPO	RATION						
MW7	11/17/00	351.86	12.44	339.42	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50			< 0.5		
MW7	02/02/01	351.86	12.74	339.12	0.00	< 0.5	< 0.5	< 0.5	<0.5	<50			< 0.5		
MW7	05/09/01	351.86	11.15	340.71	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50			<5ª		ND°
MW7	09/12/01	351.86	12.74	339.12	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50			< 0.5		NA
MW7	11/05/01	351.87	13.07	338.80	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50		50	< 0.5		NA
MW7	02/04/02	351.87	10.79	341.08	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50	d	<50	5.80		NA
MW7	02/04/02	351.87											1.4 ^a		
MW7	04/26/02	351.87	10.65	341.22	0.00	< 0.5	< 0.5	<0.5	< 0.5	<50	d	<50	1.6		NA
MW7	07/30/02	351.87	11.77	340.10	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50	d	<50	< 0.5		NA
MW7	11/05/02	351.87	13.04	338.83	0.00	< 0.5	< 0.5	<0.5	< 0.5	<50	đ	<50	< 0.5		NA
MW7	01/24/03	351.87	10.19	341.68	0.00	< 0.5	< 0.5	<0.5	< 0.5	<50	d	106	< 0.5		NA
MW7	04/24/03	351.87	9.76	342.11	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50	d	<50	<0.5		NA
MW7	08/05/03	351.87	11.18	340.69	0.00	< 0.5	1.6	< 0.5	< 0.5	<50	d	<50	< 0.5		NA
MW7	10/17/03	351.87	12.54	339.33	0.00	< 0.5	1.7	< 0.5	0.9	<50	d	<50	< 0.5		NA
MW7	01/28/04	351.87	11.33	340.54	0.00	< 0.5	0.1	< 0.5	0.9	<50	d	<50	< 0.5		NA
MW7	04/16/04	351.87	10.57	341.30	0.00	< 0.5	< 0.5	<0.5	< 0.5	<50	d	<50	<0.5 ^a	<100 ^a	NA
MW7	08/03/04	351.87	12.30	339.57	0.00	< 0.5	< 0.5	< 0.5	< 0.5	94.0	d	<50	<0.5 ^a	<100°	NA
MW7	11/04/04	351.87	12.08	339.79	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50	d	<50	<0.5 ^a	<100 ^a	ND^c
MW7	02/16/05	351.87	9.73	342.14	0.00	< 0.50	< 0.5	< 0.5	<0.5	<50.0	d	<50	<0.50°	<100 ^a	NA
MW7	05/16/05	351.87	8.87	343.00	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50	ď	<50	<0.50°	<100°	NA
MW7	08/17/05	351.87	10.73	341.14	0.00	< 0.5	< 0.5	< 0.5	0.880	<50	d	<50	<0.50°	<100°	NA
MW7	11/17/05	351.87	12.63	339.24	0.00	< 0.5	< 0.5	< 0.5	< 0.5	<50	d	<50	<0.50°	<50°	ND°
MW7	02/06/06	351.87	10.65	341.22	0.00	<0.5	< 0.5	< 0.5	< 0.5	<50	d	<50	<0.50 ^a	NA	ND°

72 7"

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

									(Concentra	iion	(μg/L)			
Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	ТРН-g		TPH-d	МТВЕ	Ethanol	Other Oxygenates and Additives
MW7	05/03/06	351.87	8.45	343.42	0.00	<0.50	<0.50	<0.50	<0.50	<50.0	d	<47	<1.00 ^a	NA	ND°
a	Analysis b	y EPA Met	hod 8260.					***							<u></u>
b	A peak elu	tıng earlier	than benze	ene, suspected t	o be MTBE	•									
c	Other oxyg	genates and nane.	additives 1	nclude diisopro	pyl ether, t-	-butyl alcoi	nol, tert-ar	nyl methy	l ether, ter	t-butyl et	hyl	ether, 1,2	-dibromoe	thane, and	1,2-
d	TPH-g resi	alts beginni	ng Februar	y 2002 include	MTBE.										
e				to laboratory.											
LPH	Liquid-pha	se hydrocai	rbons.												
ТРН-g	Total Petro	leum Hydro	ocarbons a	s gasoline.											
TPH-d	Total Petro	leum Hydro	ocarbons a	s diesel.											
MTBE		iary butyl e													
NA	Not analyz	ed.													
ND	Not detecte														
NS	Not sample	ed.													
μg/L	Microgram														

TABLE 3 SOIL SAMPLE ANALYTICAL RESULTS, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

		Sample _							(Concentrati	on (mg/kg)							
Sample		Depth			Ethyl-					MTBE	Organic		***************************************					
<u> 1D</u>	Date	(ft bgs)	Benzene	Toluene	benzene	Xylenes	ТРН-д	TPH-d	MTBE	8260B	Lead	TOC (%)	ETBE	TAME	DIPE	TBA	EDB	1,2-DCA
SB-1	10/16/91	5.5-6	< 0.001	<0.001	< 0.001	<0.001	<0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10-10.5	<0.001	< 0.001	< 0.001	< 0.001	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		15.5-16	0.045	0.15	0.67	2	69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TGI	10/30/91	12	<0.005	<0.005	0.009	0.007	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TG2	10/30/91	13	0.25	0.75	3.2	14	440	NA	NΑ	NA	NA	NA	NA	NA	NA	NA	NA	NA
TG3	10/30/91	15	0.023	0.074	0.064	0.21	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TG4	10/30/91	14	1.2	8.8	17	98	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TG5	10/30/91	15	0.025	< 0.005	0.037	0.044	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TG6	10/30/91	14	0.046	< 0.005	0.13	0.075	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TG7	10/30/91	13	< 0.005	< 0.005	< 0.005	0.038	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TG8	10/30/91	15	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TG9	10/30/91	16	0.68	0.69	5.7	21	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TG10	10/30/91	16	0.01	< 0.005	0.052	0.13	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TGH	10/30/91	16	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PLi	10/30/91	2.5	< 0.005	< 0.005	<0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL2	10/30/91	2.5	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL3	10/30/91	2.5	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL4	10/30/91	2.5	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL5	10/30/91	2.5	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL6	10/30/91	2.5	<0.005	< 0.005	< 0.005	<0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NPI	10/31/00	14	<0.005	< 0.005	< 0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NP2	10/31/00	14	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NP3	10/31/00	14	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NP4	10/31/00	14	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MWI	05/14/92	10.5-11	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	NA	NA	0.25	NA	NA	NA	NA	NA	NA	NA
		14-14.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	NA	NA	0.2	NA	NA	NA	NA	NA	NA	NA
MW2	05/13/92	11-11.5	< 0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		14.5-15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW3	05/13/92	11-11.5	< 0.0050	<0.0050	<0.0050	< 0.0050	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		15.5-16	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW4	05/14/92	11-11.5	<0.0050	<0.0050	< 0.0050	<0.0050	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		14.5-15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bl	11/16/98	5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	1.1	<0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/03/98	10-11	< 0.0050	< 0.0050	< 0.0050	<0.0050	<1.0	NA	< 0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/03/98	15-16	< 0.0050	< 0.0050	<0.0050	< 0.0050	<1.0	NA	0.78	NA	NA	NA	NA	NA	NA	NA	NA	NA

Page 1 of 3

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TABLE 3 SOIL SAMPLE ANALYTICAL RESULTS, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

		Sample							(Concentrati	on (mg/kg)	ı						
Sample		Depth			Ethyl-				***************************************	MTBE	Organic							
ID	Date	(ft bgs)	Benzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	MTBE	8260B	Lead	TOC (%)	ETBE	TAME	DIPE	TBA	EDB	1,2-DCA
B2	11/16/98	5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	1,1	<0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
DZ	12/03/98	10-11	<0.0050	<0.0050	< 0.0050	< 0.0050	<1.0	NA	<0.025	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	12/03/98	(4-15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA NA	<0.025	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	12/03/90	(4-15	~0.0050	~0.0050	\0.00J0	~0.0050	\1.0	INA	V0.023	IVA	NA	INA	IAA	INA	INA.	IVA	IVA	NA
B3	11/16/98	5	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	2.1	< 0.025	NA	NA	NA						
	12/03/98	10-11	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	NA	< 0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/03/98	12-12.5	< 0.0050	< 0.0050	<0.0050	< 0.0050	<1.0	NA	< 0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/03/98	19-20	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	NA	< 0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4	11/16/98	5	< 0.0050	<0.0050	<0.0050	<0.0050	<1.0	1.3	< 0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/03/98	8-9	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	NA	< 0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/03/98	15-16	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	NA	< 0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW5	11/15/00		<0.001	< 0.001	0.0033	0.0038	<1.0	NA	< 0.001	NA	NA	NA	NA.	NA	NA	NA	NA	NA
		13-13.5	<0.001	< 0.001	< 0.001	< 0.001	<1.0	NA	0.023	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA
MW6	11/14/00	10-10.5	<0.001	< 0.001	<0.001	<0.001	<1.0	NA	<0.001	NA	NA	0.257	NA	NA	NA	NA	NA	NA
		13-13.5	<0.001	< 0.001	< 0.001	0.001	<1.0	NA	0.018	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA
MW7	11/14/00	10-10.5	<0.001	< 0.001	<0.001	< 0.001	<1.0	NA	< 0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
,	117.1700	13.5-14	<0.001	< 0.001	<0.001	< 0.001	<1.0	NA	< 0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
B5	02/26/03		<0.001	< 0.001	<0.001	<0.001	<5	<9.92	NA	0.0291	NA	NA	<0.002	< 0.002	< 0.01	< 0.05	< 0.002	<0.002
	02/26/03		0.001	0.001	< 0.001	< 0.001	<5	<10.1	NA	< 0.002	NA	NA	< 0.002	< 0.002	< 0.01	< 0.05	< 0.002	< 0.002
	02/26/03	22.5-23	0.001	< 0.001	<0.001	100.0>	<5	<9.92	NA	0.0047	NA	NA	< 0.002	< 0.002	< 0.01	<0.05	< 0.002	<0.002
B6	02/26/03	10-10.5	<0.001	< 0.001	<0.001	< 0.001	<5	<10.1	NA	0.0068	NA	NA	<0.002	< 0.002	< 0.01	< 0.05	<0.002	< 0.002
	02/26/03	16.5-17	<0.001	< 0.001	< 0.001	< 0.001	<5	<9.96	NA	< 0.002	NA	NA	< 0.002	< 0.002	< 0.01	< 0.05	< 0.002	< 0.002
	02/26/03	19.5-20	0.001	< 0.001	< 0.001	< 0.001	<5	<10.1	NA	< 0.002	NA	NA	< 0.002	< 0.002	< 0.01	< 0.05	< 0.002	< 0.002
	02/26/03	26.5-27	<0.001	< 0.001	< 0.001	< 0.001	<5	<10.1	NA	< 0.002	NA	NA	<0.002	< 0.002	< 0.01	< 0.05	< 0.002	< 0.002
В7	02/26/03	10-10.5	<0,001	< 0.001	< 0.001	<0.001	<5	<10	NA	<0.002	NA	NA	<0.002	<0.002	10.0>	<0.05	<0.002	<0.002
Б,	02/26/03	16.5-17	100.0	< 0.001	< 0.001	< 0.001	<5	<10	NA	< 0.002	NA NA	NA	<0.002	< 0.002	<0.01	< 0.05	< 0.002	< 0.002
	02/26/03		< 0.001	< 0.001	< 0.001	<0.001	<5	<9.92	NA NA	<0.002	NA.	NA	<0.002	<0.002	<0.01	<0.05	<0.002	<0.002
	02,20,00	20.20.3	-0.001	10001	-0.001	-0,001	Ş	-J.J.	1474	-0.002	HA	M	-0,002	40.002	10.01	·0.0J	-0.002	*0.002
B8	02/26/03		< 0.05	< 0.05	< 0.05	< 0.05	<50	<10	NA	< 0.002	NA	NA	< 0.002	< 0.002	< 0.01	< 0.05	< 0.002	< 0.002
	02/26/03		<0.001	< 0.001	< 0.001	< 0.001	<5	<9.88	NA	< 0.002	NA	NA	< 0.002	<0.002	< 0.01	< 0.05	< 0.002	< 0.002
		17-17.5	100.0>	< 0.001	< 0.001	< 0.001	<5	<9.92	NA	< 0.002	NA	NA	<0.002	< 0.002	<0.01	< 0.05	< 0.002	< 0.002
	02/26/03	23-23.5	0.002	0.003	<0.001	<0.001	<5	<10	NA	<0.002	NA	NA	<0.002	< 0.002	< 0.01	<0.05	<0.002	< 0.002

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TABLE 3 SOIL SAMPLE ANALYTICAL RESULTS, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

		Sample					Concentration (mg/kg)											
Sample		Depth			Ethyl-					MTBE	Organic						,,,	
ID	Date	(ft bgs)	Benzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	MTBE	8260B	Lead	TOC (%)	ETBE	TAME	DIPE	TBA	EDB	1,2-DCA

Notes:

ft bgs Feet below ground surface. mg/kg Milligrams per kilogram.

NA Not analyzed.

1,2-DCA 1,2-Dichloroethane.

DIPE Di-isopropyl ether,

EDB 1,2-Dibromoethane.

ETBE tert-Butyl ethyl ether.

MTBE Methyl t-butyl ether.

TAME tert-Amyl methyl ether.

TBA t-Butyl alcohol.

TOC Total organic carbon.

TPH-d Total Petroleum Hydrocarbons as diesel.

TPH-g Total Petroleum Hydrocarbons as gasoline.

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TABLE 4 GROUNDWATER GRAB SAMPLE ANALYTICAL RESULTS FOR TEMPORARY BORINGS, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BLVD., DUBLIN, CALIFORNIA

							Concentration (μg/L)									
	Depth (ft			Ethyl-					MTBE	MTBE						
Boring	Date	bgs)	Benzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	(8021B)	(8260B)	ETBE	TAME	DIPE	TBA	EDB	1,2-DCA
B1ª	12/3/1998	~~	<0.5	1.7	<0.5	<0.5	100	NA	3,500	4,000	NA	NA	NA	NA	NA	NA
B2³	12/03/98		<0.5	<0.5	<0.5	<0.5	<50	NA	28	19	NA	NA	NA	NA	NA	NA
B3 ^a	12/03/98	***	<0.5	<0.5	<0.5	<0.5	<50	NA	<2.5	NA	NA	NA	NA	NA	NA	NA
B4ª	12/03/98		<0.5	<0.5	<0.5	<0.5	<50	NA	<2.5	NA	NA	NA	NA	NA	NA	NA
B5	02/26/03	15	<1.0	<1.0	<1.0	<1.0	<50	61	NA	35.3	< 0.50	< 0.50	< 0.50	<10	< 0.50	< 0.50
	02/26/03	21-24	0.1>	<1.0	<1.0	<1.0	<50	116	NA	8.10	<0.50	<0.50	<0.50	<10	< 0.50	<0.50
В6	02/26/03	20	<1.0	<1.0	<1.0	<1.0	<50	<50	NA	2.10	<0.50	<0.50	<0.50	<10	<0.50	<0.50
B7	02/26/03	17	<i.0< td=""><td><1.0</td><td><1.0</td><td><1.0</td><td><50</td><td><50</td><td>NA</td><td>< 0.50</td><td>< 0.50</td><td>< 0.50</td><td>< 0.50</td><td><10</td><td>< 0.50</td><td><0.50</td></i.0<>	<1.0	<1.0	<1.0	<50	<50	NA	< 0.50	< 0.50	< 0.50	< 0.50	<10	< 0.50	<0.50
	02/26/03	19-21	<1.0	<1.0	<1.0	<1.0	<50	66	NA	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50
B8	02/26/03	17	<1.0	<1.0	<1.0	<1.0	<50	<50	NA	1.40	< 0.50	< 0.50	< 0.50	<10	< 0.50	<0.50
	02/26/03	21-24	<1.0	<1.0	<1.0	<1.0	<50	<50	NA	2.40	<0.50	<0.50	<0.50	<10	< 0.50	<0.50

Notes:

ft bgs Feet below ground surface.

NA Not analyzed.

Micrograms per liter. μg/L

1,2-DCA 1.2-Dichloroethane.

DIPE Di-isopropyl ether.

EDB 1,2-Dibromoethane.

ETBE tert-Butyl ethyl ether.

MTBE Methyl t-butyl ether.

TAME tert-Amyl methyl ether.

TBA t-Butyl alcohol.

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

a Data from EA Engineering, 1999.

TABLE 5 SUMMARY OF GROUNDWATER SAMPLING ATTEMPTS, 26 FEBRUARY 2003, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Boring	Depth (feet bgs)	Time (minutes)	Comments
B5	15.0	<5	Water entered the open hole within 5 minutes.
55	21.0-24.0	<5	Water entered the hydropunch within 5 minutes.
В6	15.0	5	No water entered the open hole within 5 minutes.
	17.0	5	No water entered the open hole within 5 minutes.
	20.0	<5	Water entered the open hole within 5 minutes.
	23.0-27.0	15	No water entered the hydropunch after 15 minutes.
B7	15.0	5	No water entered the open hole within 5 minutes.
	17.0	<5	Water entered the open hole within 5 minutes.
	19.0-21.0	<5	Water entered the hydropunch within 5 minutes.
	23.0-25.0	10	No water entered the hydropunch after 10 minutes.
B8	15.0	5	No water entered the open hole within 5 minutes.
	17.0	<5	Water entered the open hole within 5 minutes.
	21.0-24.0	<5	Water entered the hydropunch within 5 minutes.

bgs Below ground surface.

**

Maj	DWR Date					Well	Well Depth	Diameter		DWR		
#	or EDR Date	Address / Location	Towns	hip Rang	e Section	Owner's #	(feet bgs)	(inches)	Туре	form#	Source	Comments
t	1/10/1951	i Mile East of Highway 50, north Walnut Creek Road 0.3 Mile on left hand side.	38	1W	2	NR	200	10	Irrigation	NA	DWR	Well is located 0.9 miles southwest of the site.
2	10/10/1973	Well located behind VCSD office building near north fence on Dublin Boulevard.	3\$	ıw		NR	500	NR	Municipal	88162	DWR	Well is located 0.65 miles east of the site. The well has been destroyed according to a representative from Zone 7.
2	9/7/1977	Well located behind VCSD office building near north fence on Dublin Boulevard.	38	ıw		1B2	530	NR	Municipal	120260	DWR	Well is located 0.65 miles east of the site. The well has been destroyed according to a representative from Zone 7.
3	5/11/1960	100 feet north of old Highway 50, 4000 feet east of San Ramon Road.				NR	560	30	Domestic	50876	DWR	Well is located 0.7 miles east southeast of the site.
4	1/10/1951	South 1 mile Foothill Road to Mexican Camp - East 0.4 mile to well.	3	į	12	NR	338	12	Domestic/ Irrigation	NA	DWR	Well is tocated 1.6 miles south of the site.
4	8/22/1951	South t mile Foothill Road to Mexican Camp - East 0.4 mile to well.	3	ţ	12	NR	205	12	Irrigation	NA	DWR	Well is located 1.6 miles south of the site.
5	7/5/1960	3500' due east of Foothill road, 100' north of Gold Creek, 1300' southwest of the southwest corner of the Parks Sewage Pond, and 1 mile south of the north lane of Highway 50.	3	ţ	12	W-1	440	12	Irrigation	50894	DWR	Well is located 1.3 miles south of the site.
6	4/2/1985	3/4 mile from Foothill and 580 left side of road up 3/4 miles up driveway to top of hill	3	t	! [NR	400	6	Domestic	162222	DWR	Well is located 1.4 miles south southwest of the site.
6	4/2/1985	3/4 mile from Foothill and 580 left side of road up 3/4 miles up driveway to top of hill	3	i	11	NR	300	NR	Domestic	162220	DWR	Well is located 1.4 miles south southwest of the site.
7	10/30/1975	11276 Old Dublin Road	3	i	2P2	NR	150	6	Public Domestic	120078	DWR	Well is located 0.8 miles southwest of the site.
8	10/10/1963	5000 feet west of Highway 21, 100 feet north of old Highway 50				4B	537	30	Domestic	62405	DWR	Well is located 0.7 miles west southwest of the site.
9	11/7/1958	3 SW, Section 2	3		2	NR	76	NR	Unknown	NA	DWR	Well is located 1 mile south southwest of the site
9	NA	3 S/W section 2 SW quarter	3		2	NR	80	NR	Unknown	NA		Well is located 1 mile south southwest of the site
9	NA	3 SW, Section 2	3		2	NR		NR	Domestic	24364	DWR	Well is located 1 mile south southwest of the site
10	11/19/1948	ist house on left going into Dublin for Hayward hill, Dublin Canyon Road	3	f	2K	NR	72	NR	Unknown	NA	DWR	Well is located 0.7 miles west southwest of the site.
11	9/27/1960	i mile north of Highway 50 on Highway 21, 2500 feet east of Highway 21				NR	570	30	Domestic	61608	DWR	Well is located 0.9 miles northeast of the site.
A	1977	27 43 07 Lat / 121 55 46 Long				NR	60	NR	Observation	NA	EDR	Well is located I mile north northeast of the site. Well was not shown on the zone 7 Municipal water wells map. It could be an inactive Camp Parks well.
В	1979	37 42 34 Lat. / 121 55 20 Long				NR	112	NR	Withdrawal of water	NA	EDR	Well is located 0.8 miles to the east of the site. This well is not located on the Zone 7 Municipal water map. A representative from Zone 7 says it could be one of the inactive Camp Parks wells.
С	1961	37 41 56 Lat. / 121 55 33 Long				NR	60	NR	Unused	NA	EDR	Well is located 1.15 miles to the south southeast of the site. This well is not located on the Zone 7 Municipal well map. A representative from Zone 7 says it could be an inactive Camp Parks well.

- 4 .

TABLE 6 WELLS LOCATED WITHIN ONE-MILE RADIUS OF THE SITE, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Mar #	DWR Date or EDR Date	Address / Location	Township	Range	Section	Well Owner's #	Well Depth (feet bgs)	Diameter (inches)	Туре	DWR form#	Source	Comments
D	1976	37 42 23 Lat. / 121 56 100 Long				NR	47	NR	Observation	NA	EDR	Well is located 0.15 miles to the south southwest of the site. This well is not located on the Zone 7 Municipal well map. It could have been an inactive Camp Parks well.
E	NA	37 45 00 Lat./121 55 00 Long	03S	01W	01G02M	Well 03 - Abandoned	NR	NR	Abandoned	NA	EDR	Well not shown on map. Greater than 3 miles to the northeast of the site.
F	NA	37 41 00 Lat./121 54 00 Long	03S	01E	18A05M	Well 07 - Inactive	NR	NR	Municipal / Inactive	NA	EDR	Well is tocated 2.6 miles to the southeast of the site.
G	NA	37 40 57 Lat./121 56 47 Long				Well 052	NR	NR	Active Raw	NA	EDR	Well is located 2.1 miles to the south of the site.
Н	March 1992	37 42 07 Lat. / 12 56 04 Long				CA0110009	NR	NR	Active - Treated	NA	EDR	Well is located 0.3 miles to the south of the site. This well has been destroyed according to a Zone 7 representative.
a	10/31/1950	1000 ft North of Dublin on Walnut Creek Road to Niessen Ranch. Through Niessen Ranch 1/2 mile to Cronin Property	į	3S	ıw	NR	60	12	For cattle on Ranch	NA	DWR	Location on map not shown.
b	10/9/1961	2000 ft East of Highway 21. 100 ft North Country Club Road.				3	610	30	Municipal	61574	DWR	Location on map not shown.
С	8/25/1951	0.2 mile east from Don's Dublin, across from Standard Oil Service station	3	, in the same	2H2	NR	103	8	Domestic	NA	DWR	Location on map not shown.
d	3/18/1980	Alameda	3	Ĺ	3R3	NR	200	8	Domestic	42251	DWR	Location on map not shown.
e		Dublin, California	3	£	2	NR	204	NR	NR	NA	DWR	Location on map not shown.
f		Dublin, California	3	ŧ	2	NR	44	NR	Domestic	24364	DWR	Location on map not shown.
g	11/7/1958	Dublin, California	3	ţ	2	NR	76	NR	NR	NA	DWR	Location on map not shown.
h		Dublin, California	3	(2	NR	80	NR	NR	NA	DWR	Location on map not shown.
Ī		Unknown location	3	(2B	NR	NR	NR	NR	NA	DWR	Location on map not shown.
j		Dublin, California	3	(2	NR	112	NR	NR	NA	DWR	Location on map not shown.
<u> </u>	NA	Alameda	3		2K4	NR	110	6.7	Domestic	33973	DWR	Location on map not shown.

Route 21 is the old Interstate 680 Old Highway 50 is Interstate 580

EDR Environmental Data Resources, Inc.

bgs Below ground surface.

DWR State of California - Department of Water Resources

.. ...

NR Not Reported

NA Not Available

TABLE 7 TIER 1 ENVIRONMENTAL SCREENING LEVELS FOR SHALLOW SOIL (DIRECT EXPOSURE), FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

					Concentration (mg/kg)	
	Sample		Depth	Maxımum Reported	Environmental Screening Direct Ex	
Chemical	Identification	Date	(feet)	Concentration *	Commercial/Industrial Land Use	Construction/Trench Worker
Benzene	Multiple	10/30/91 and 11/16/98	5	< 0.0050	0.38	16
Toluene	Multiple	10/30/91 and 11/16/98	5	< 0.0050	340	650
Ethylbenzene	MW5	11/15/00	9.5 - 10	0.0033	400	400
Total Xylenes	MW5	11/15/00	9.5 - 10	0.0038	420	420
ТРН-д	Multiple	10/30/91 and 11/16/98	5	<1.0	750	6,000
TPH-d	B3	11/16/98	5	2.1	750	6,000
MTBE	Multiple	11/16/98	5	< 0.025	68	2,500

mg/kg Milligrams per kilogram.

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

MTBE Methyl tert butyl ether.

Tier 1 Environmental Screening Levels adopted by RWQCB correspond to a 1 X 10⁻⁶ Target Risk Level and a target Hazard Quotient of 0.2.

From Tables K-2 and K-3: Direct Exposure Screening Levels, Commercial/Industrial Worker Exposure Scenario, Final Screening Level (RWQCB 2005).

* Historical maximum concentrations are from soil samples collected from 0-10 feet below ground surface in non-excavated soil.

TABLE 8 TIER 1 ENVIRONMENTAL SCREENING LEVELS FOR SOIL (POTENTIAL VAPOR INTRUSION CONCERNS), FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

					Concentration (mg/l	rg)		
			•		Tier 1 Environmental S	creening Levels for Soil		
					Indoor Air Impacts	Indoor Air Impacts	Carcinogenic Risk	Non-Carcinogenic Hazard
				Maxımum	Cancer Endpoint-	Non-Cancer Endpoint-	based on ESL and	based on ESL and
	Sample			Reported	Commercial/Industrial	Commercial/Industrial	Maxımum Soil	Maxımum Soil
Chemical	Identification	Date	Depth (feet)	Concentration *	Land Use	Land Use	Concentration	Concentration
Benzene	TG9	10/30/91	16	0.68	0.51	NV	1.33E-06	NA
Toluene	TG9	10/30/91	16	0.69	NV	310	NV	4.45E-04
Ethylbenzene	TG9	10/30/91	16	5.7	NV	390	NV	2.92E-03
Total Xylenes	TG9	10/30/91	16	21	NV	420	NV	1.00E-02
TPH-g	TG9	10/30/91	16	300	NV	NV	NV	NV
TPH-d	B3	11/16/98	5	2.1	NV	NV	NV	NV
MTBE	B1	12/03/98	15 - 16	0.78	5.6	NV	1.39E-07	NV
						Total cumulative Risk/Hazard:	1.47E-06	1.34E-02

NV No value.

mg/kg Milligrams per kilogram.

TPH-g Total Petroleum Hydrocarbons as gasoline.
TPH-d Total Petroleum Hydrocarbons as diesel.

MTBE Methyl tert butyl ether.

Bold values represent exceedance of environmental screening level.

Tier 1 Environmental Screening Levels adopted by RWQCB correspond to a 1 X 10⁻⁶ Target Risk Level and a target Hazard Quotient of 0.2.

From Table E-1b: Soil Screening Levels for Evaluation of Potential Indoor Air Impacts, Commercial/Industrial Exposure (RWQCB 2005).

* Historical maximum concentrations are from soil samples collected >10 feet below ground surface in non-excavated soil.

TABLE 9 TIER 1 ENVIRONMENTAL SCREENING LEVELS FOR GROUNDWATER (POTENTIAL VAPOR INTRUSION CONCERNS), FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

			Concentration (µg/L)						
	Well			Tier 1 Environmental Screening Levels for Groundwater Indoor Air Impacts					
Chemical	Identification	Date	Maximum Reported Concentration ^c	Commercial/Industrial Land Use (Onsite) ^b					
Benzene	Multiple	8/17/05 to 5/3/06	< 0.5	1,800					
Γoluene	Multiple	8/17/05 to 5/3/06	< 0.5	530,000					
Ethylbenzene	Multiple	8/17/05 to 5/3/06	< 0.5	170,000					
Total Xylenes	MW5	11/17/05	1.18	160,000					
TPH-g	MW5	11/17/05	72.6	NV					
MTBE	MW6	05/03/06	10.3	80,000					

NV No value.

µg/L Micrograms per liter

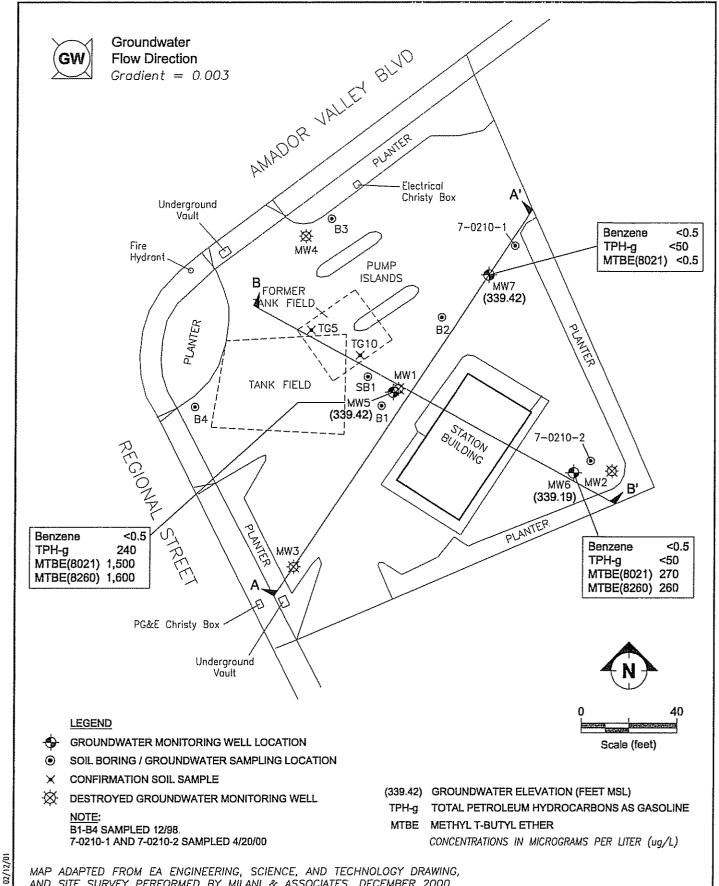
TPH-g Total Petroleum Hydrocarbons as gasoline.

MTBE Methyl tert butyl ether.

Tier 1 Environmental Screening Levels adopted by RWQCB correspond to a 1 X 10⁻⁶ Target Risk Level and a target Hazard Quotient of 0.2.

- a Analyzed by EPA Method 8260B.
- b From Table E-1a: Groundwater Screening Levels for Evaluation of Potential Indoor-Air Impacts, Residential and Commercial/Industrial Land Use, High Permeability Vadose-Zone Soil Type (RWQCB 2005).
- c Data reflects maximum concentration reported over last four quarters (August 2005 to May 2006) of sampling.

Appendix A Geologic Cross-Sections

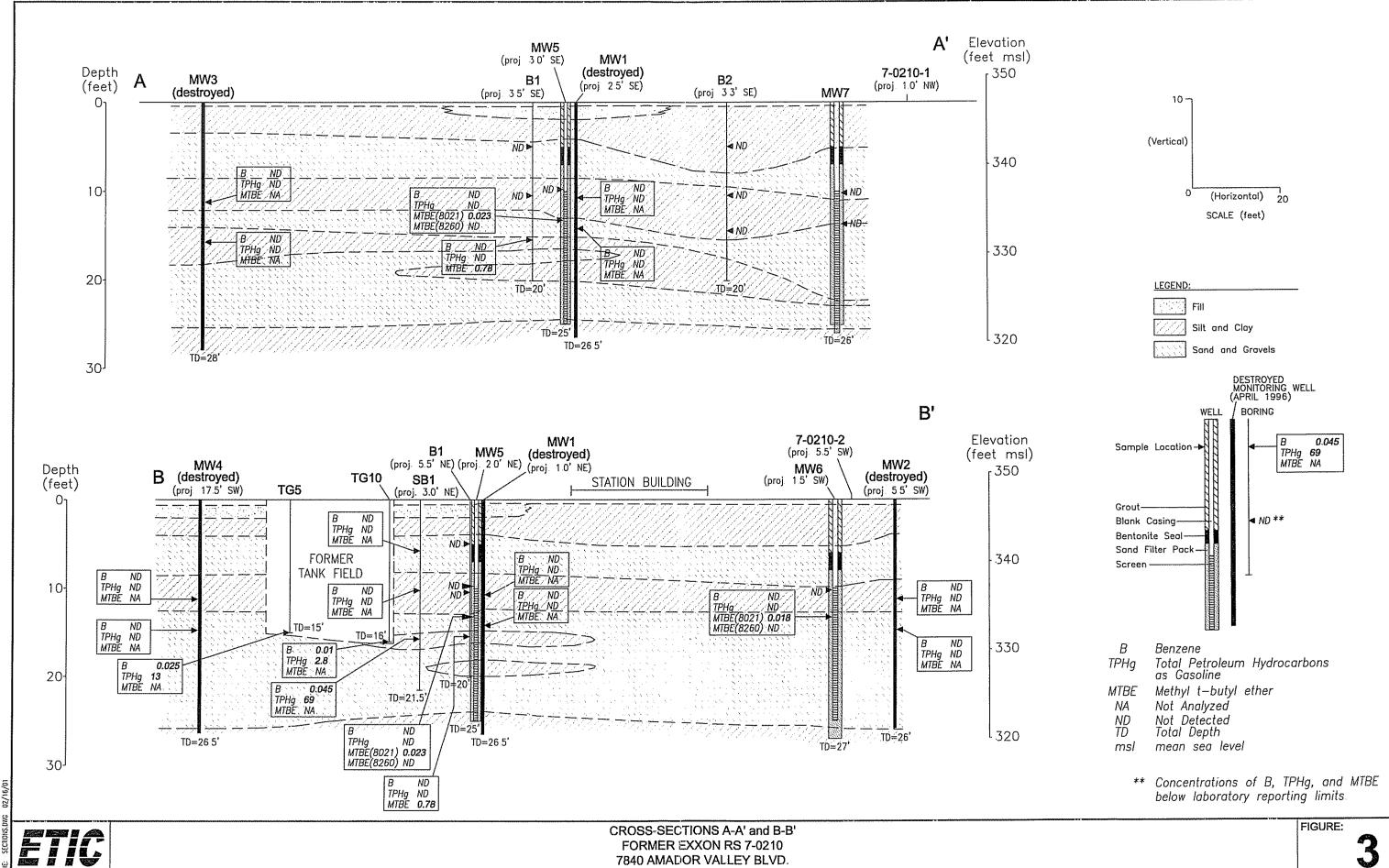


MAP ADAPTED FROM EA ENGINEERING, SCIENCE, AND TECHNOLOGY DRAWING, AND SITE SURVEY PERFORMED BY MILANI & ASSOCIATES, DECEMBER 2000.



SITE PLAN SHOWING GROUNDWATER ELEVATIONS, ANALYTICAL RESULTS, AND GEOLOGIC CROSS-SECTION LINES, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BLVD., DUBLIN, CA. **17 NOVEMBER 2000**

FIGURE:

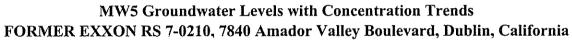


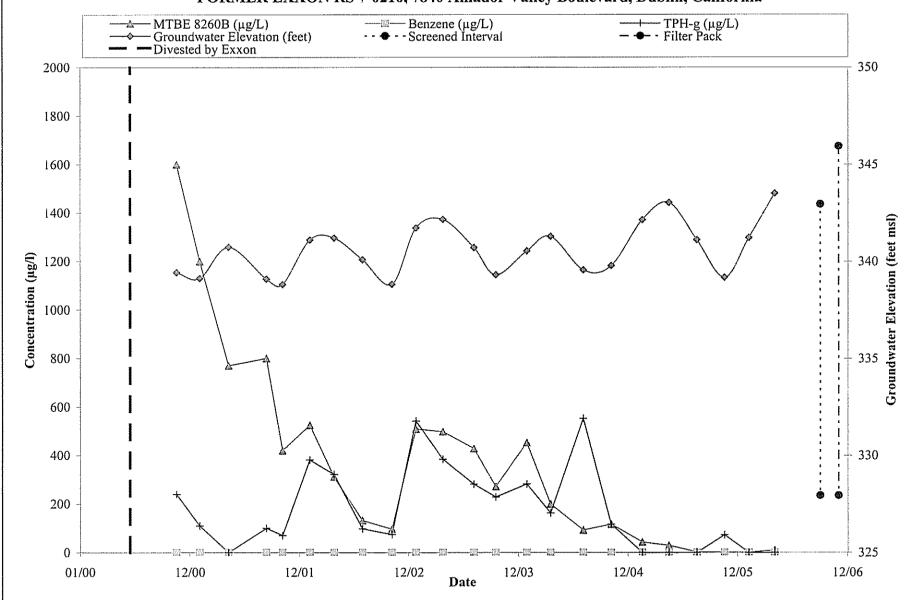
Engineering, Inc.

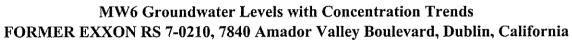
DUBLIN, CALIFORNIA

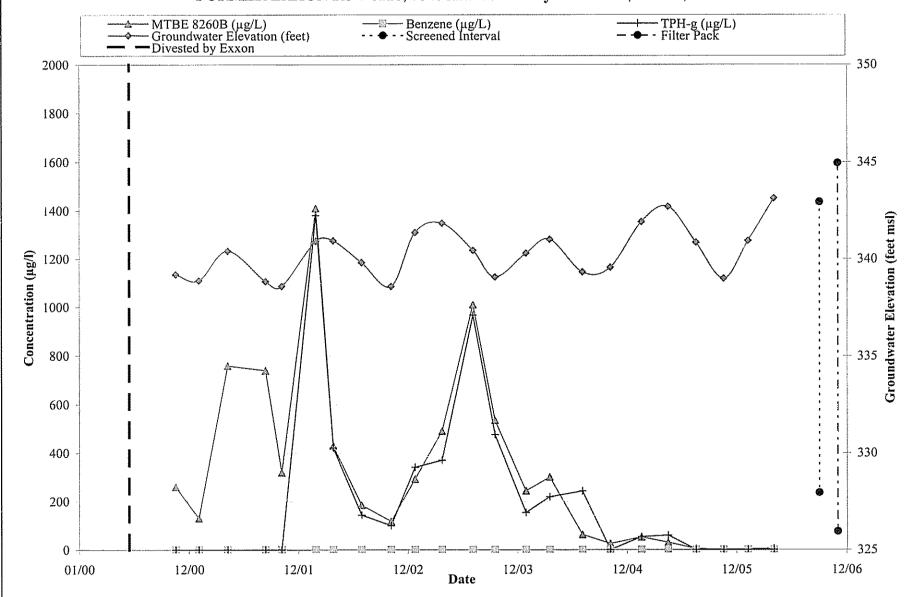
Appendix B

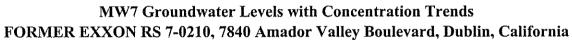
Hydrographs

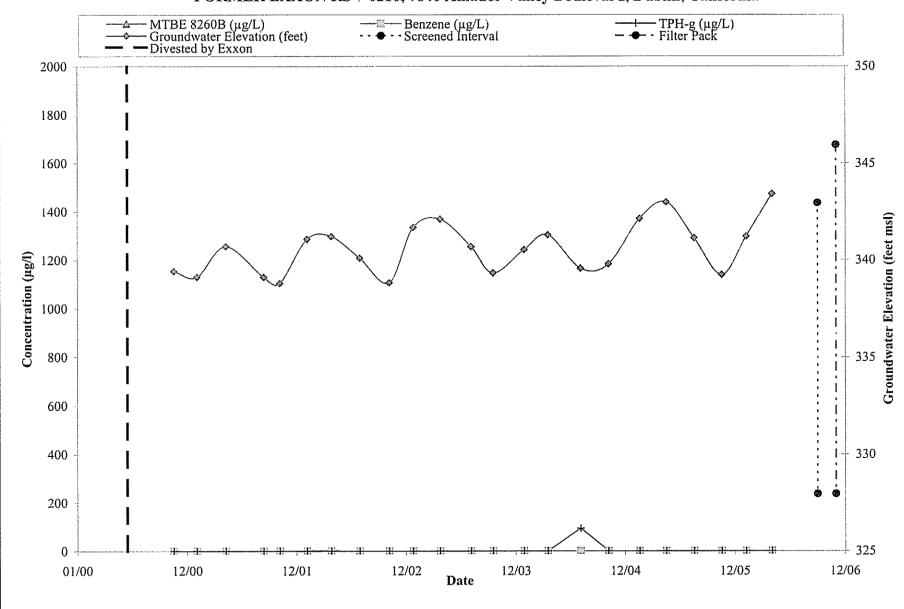




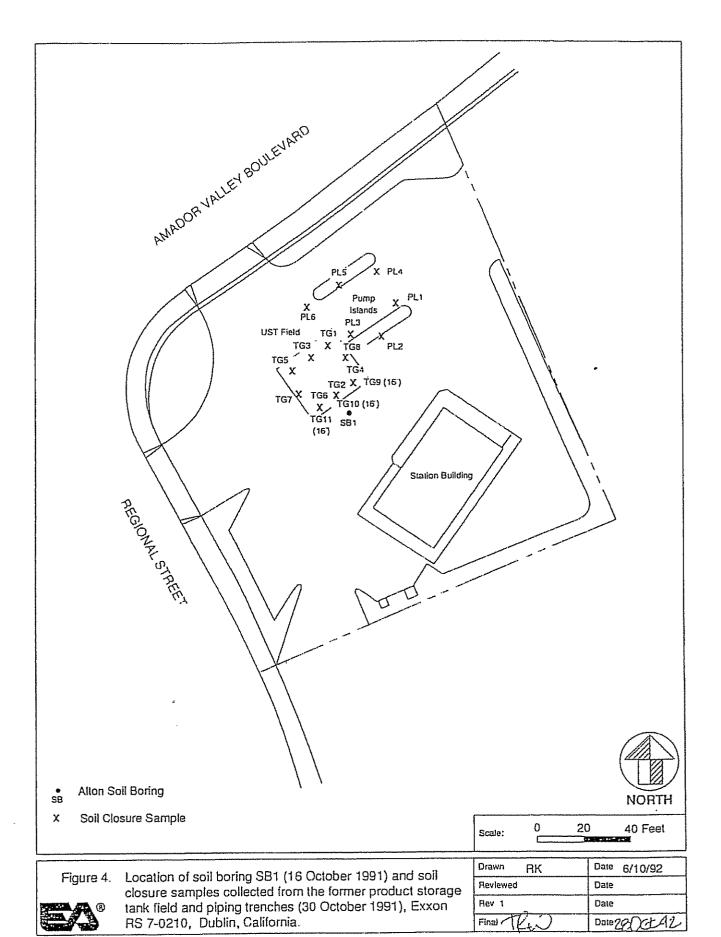








Appendix C Site Maps for UST Removals



MDRW/7-0210/ROVJUN92

