

July 11, 2005

Alameda County  
JUL 12 2005  
Environmental Health

**SOIL & GROUNDWATER INVESTIGATION  
WORKPLAN**

6310 Houston Place  
Dublin, California 94568

AEI Project No. 11427  
Fuel Leak Case No. RO0002862

Prepared For

Mr. Cary Grayson  
G&G International Holding Company  
2413 Stirrup Court  
Walnut Creek, California 94596

Prepared By

**AEI Consultants**  
2500 Camino Diablo, Suite 200  
Walnut Creek, California 94597  
(925) 283-6000

**AEI**



July 11, 2005

Attn: Ms. Dona Drogos  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Subject: Bay Counties Petroleum, Former UST Site at:  
6310 Houston Place  
Dublin, CA 94568  
Fuel Leak Case No. RO0002862  
AEI Project # 11427

Alameda County  
JUL 12 2005  
Environmental Health

Dear Ms. Drogos:

Enclosed is one (1) copy of the Soil & Groundwater Investigation Workplan requested in a letter from your agency prepared by Robert Schultz, dated April 12, 2005.

We look forward to working with your office on this matter. Should you have any questions or need any additional information, please contact me. I can be reached at 925/283-6000, extension 128, or via email at [jquick@aeiconsultants.com](mailto:jquick@aeiconsultants.com).

Sincerely,  
**AEI Consultants**

Jeremy Quick  
Staff Geologist

# TABLE OF CONTENTS

<b>1.0 INTRODUCTION .....</b>	<b>1</b>
<b>2.0 SITE DESCRIPTION AND HISTORY .....</b>	<b>1</b>
<b>3.0 GEOLOGY AND HYDROLOGY .....</b>	<b>2</b>
<b>4.0 CONDUIT AND RECEPTOR SURVEY.....</b>	<b>3</b>
<b>5.0 PROPOSED INVESTIGATION.....</b>	<b>3</b>
<b>6.0 FIELD OPERATION PROCEDURES .....</b>	<b>4</b>
6.1 Permits and Clearances.....	4
6.2 Drilling and Sampling.....	4
6.3 Sample Storage and Analyses.....	4
6.4 Equipment Decontamination .....	5
6.5 Waste Handling.....	5
6.6 Site Safety .....	5
<b>7.0 REPORTING .....</b>	<b>6</b>
<b>8.0 SCHEDULE.....</b>	<b>6</b>
<b>9.0 SIGNATURES.....</b>	<b>6</b>

## FIGURES

<i>FIGURE 1</i>	<i>SITE LOCATION MAP</i>
<i>FIGURE 2</i>	<i>SITE PLAN</i>
<i>FIGURE 3</i>	<i>PROPOSED SOIL BORINGS</i>

## TABLES

<i>TABLE 1</i>	<i>2004 TANK REMOVAL SOIL SAMPLE DATA</i>
<i>TABLE 2</i>	<i>2004 TANK REMOVAL GROUNDWATER SAMPLE DATA</i>

## APPENDICIES

<i>APPENDIX A</i>	<i>HISTORICAL GROUNDWATER MONITORING DATA</i>
-------------------	---

## 1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this plan on behalf of G&G International Holding (G&G) for the facility located at 6310 Houston Place in the City of Dublin, Alameda County, California. AEI has been retained by G&G to provide environmental engineering and consulting services for the property.

This workplan outlines a scope of work to characterize the extent of a release of petroleum hydrocarbons from a former 12,000-gallon diesel underground storage tank (UST), which was removed from the subject property in October 2004. The scope of work includes collection and analyses of soil and groundwater samples to be collected from four (4) soil borings around this former UST and associated dispenser. The investigation was requested by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated April 12, 2005.

## 2.0 SITE DESCRIPTION AND HISTORY

The subject property is located in a commercial and light industrial area of Dublin, on the south side of Houston Place, just east of Dougherty Road. The subject property yard is currently vacant although the building is used for storage. Please refer to Figures 1 and 2 for the site location map and site plan details.

According to records on file with the Dublin Building Department (DBD), three USTs (one 12,000-gallon diesel USTs, one 7,500-gallon gasoline UST, and one 2,000-gallon gasoline UST) were installed on the subject property in 1968.

According to a case closure summary report prepared by Alameda County Health Care Services Agency (ACHCSA), a piping leak and a localized surface spill of used motor oil were discovered at the site prior to 1984. Following the release, 156 cubic yards of contaminated soil was removed from the site to the satisfaction of San Francisco Bay Regional Water Quality Control Board (SFRWQCB). On March 31, 1989, four USTs (one 500-gallon waste oil, two 12,000-gallon and one 8,000-gallon diesel tanks) were excavated, three of which were removed. One 12,000-gallon diesel UST was refinished internally with "Glass Armor" coating and was reinstalled for continued use. Soil samples collected from the sidewalls of the excavation during tank removal activities had concentrations of Total Petroleum Hydrocarbons as diesel (TPH-d) to 190 milligrams per kilogram (mg/kg) and Total Oil and Grease (TOG) up to 240 mg/kg. No concentrations of TPH as gasoline; Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX); or chlorinated hydrocarbons were detected in these samples. One grab groundwater sample was collected from the diesel UST excavation, which had concentrations of TPH-d and TOG up to 380,000 micrograms per liter ( $\mu\text{g/L}$ ) and 50,000  $\mu\text{g/l}$ , respectively. ↗

Following removal of the three USTs, three groundwater monitoring wells (MW-1 through MW-3) were installed on August 9, 1989, and quarterly groundwater monitoring and sampling commenced. To further define the extent of the groundwater contamination plume, three additional wells (MW-4 through MW-6) were installed between May 1990 and March 1991.

TPH-d and TOG were detected up to 22,000 µg/L and 8,600 µg/L, respectively, during initial sampling of these wells. Intermittent monitoring and sampling of the wells continued between August 1989 and October 1994. During the last sampling episode conducted in October 1994 concentrations of TPH-d and TOG were detected up to 850 µg/L and 600 µg/L, respectively. Refer to Appendix A for previous groundwater sample analytical results. Based on a recent site inspection, the former onsite monitoring wells had been decommissioned. Approximate former well locations are shown on Figure 2.

Based on the gradual decline of TPH-d and TOG in the groundwater, and the remaining low concentrations of these contaminants in groundwater and soil, the ACHCSA granted case closure in a letter dated February 28, 1995.

At the request of a prospective purchaser of the property, AEI collected samples from on-site monitoring wells MW-1, MW-2, and MW-5 on January 23, 2001. TPH-d was detected up to 5,200 µg/L in the samples. No concentrations of TOG were detected in these samples.

On October 27, 2004, the remaining 12,000-gallon diesel UST, fuel dispensers, and product piping were removed from the subject property by Golden Gate Tank Removal, Inc. (GGTR). Following excavation, GGTR collected a total of seven soil and two groundwater samples from the UST excavation bottom and sidewall, overburden stockpile, and areas in the vicinity of the fuel dispensers and product piping. These samples were analyzed for TPH-d, MTBE, and BTEX. TPH-d was detected at concentrations of 6 mg/kg and 197 mg/kg in stockpile soil samples and at a concentration of 1 mg/kg in a soil sample obtained from the UST excavation sidewall. TPH-d was detected in the water sample collected from the UST pit at 0.3 mg/L and at 23.8 mg/L in water that was present in the shallow excavation beneath the dispenser. Locations of the samples collected by GGTR are shown on Figure 3 and a summary of sample analytical data from the tank removal is presented in Tables 1 and 2. The excavation was backfilled with the stockpiled soil and imported fill.

Upon reviewing the GGTR Tank Closure Report, the ACHCSA issued a letter requesting the workplan presented in this report.

### **3.0 GEOLOGY AND HYDROLOGY**

Based on a review of the United States Geological Survey (USGS) Dublin, California Quadrangle topographic map, the site is situated in the southeast end of the San Ramon Valley, and is located approximately ¾-mile south/southeast of the Dougherty Hills, which are foothills of Mount Diablo. The site is situated east of Dougherty Creek, which is located approximately ½-mile from the site. The site is relatively flat and at an elevation of approximately 335 feet above mean sea level (amsl). Any apparent slope throughout the surface of the site was likely produced to manage surface water drainage.

Based on the USGS Quaternary Geology of Alameda County, and Parts of Contra Costa, Santa Clara, San Mateo, San Francisco, Stanislaus, and San Joaquin Counties, California: A Digital

Database, surface deposits in the vicinity of the site consist of Holocene Age Basin Deposits. These are identified as by very fine silty clay to clay deposits occupying flat-floored basins at the distal edge of alluvial fans.

During previous investigations, groundwater has been encountered at depth of approximately 10 feet below ground surface (bgs). Previous monitoring identified a southeasterly groundwater flow direction with a hydraulic gradient of  $10^{-3}$  ft/ft.

#### 4.0 CONDUIT AND RECEPTOR SURVEY

During site reconnaissance activities, AEI inspected the property for evidence of utilities and other subsurface conduits. A storm drain was identified just east of the property boundary, approximately 15 feet from the former UST area. Along the northern boundary of the property, telecommunications and electrical service lines were apparent. Natural gas and water lines were observed entering the property from the northwest corner, running to the western side of the property building. The location of sewer lines could not be ascertained. Locations of the identified utilities are shown on Figure 2. The depth of the storm drain appeared to be approximately 2 to 4 feet. The depth of the other utilities is assumed to be 3 to 8 feet, based on construction standards.

The Department of Water Resources (DWR) and Alameda County Public Works Agency (ACPWA) have both been contacted for well records for the area. As of the date of this document, these record searches were not complete.

#### 5.0 PROPOSED INVESTIGATION

As required, a soil and groundwater investigation is proposed near the recently removed UST and dispenser. Based on the GGTR samples, the only evidence of a release was near the dispenser island and in the groundwater present in the UST excavation. Pictures on file with ACHCSA of the UST pit did suggest floating fuel product within the excavation. However, based on the shallow depth of water beneath the dispenser, it does not appear that that sample collected is representative of true groundwater conditions. Four soil borings (labeled SB-1 through SB-4) are proposed, three in the vicinity of the former UST, and one in the vicinity of the former dispenser island. The proposed boring locations are shown on Figure 3. A summary of the proposed soil borings is presented below:

##### Proposed Borings

<i>Boring ID</i>	<i>Purpose</i>
SB-1	Collect soil sample beneath tank, investigate former tank hold / source area soil and groundwater
SB-2	Investigate southeast (down-gradient) extent of impacted groundwater
SB-3	Investigate southern extent of impacted groundwater
SB-4	Investigate soil and groundwater beneath former dispenser

## **6.0 FIELD OPERATION PROCEDURES**

### **6.1 Permits and Clearances**

Upon approval of a scope of work for these investigation activities, a soil boring permit application will be submitted to the Alameda County Public Works Agency (ACPWA), Zone 7. Prior to beginning drilling activities, Underground Service Alert (USA) will be notified. All drilling work will be performed by a California C57 licensed drilling contractor working under the direction of AEI professional staff. Once drilling dates have been established, the ACPWA and other parties will be given adequate notification to schedule any necessary inspections and site visits.

### **6.2 Drilling and Sampling**

The soil borings will be advanced with a direct-push drilling rig (GeoProbe or similar). The borings will be advanced to anticipated depths of approximately 10 to 15 feet bgs, as necessary to collect groundwater samples.

Soil will be continuously collected from each boring in 2" diameter acrylic liners. The borings will be continuously logged by an AEI geologist, under the direction of a California Professional Geologist (PG) using the Unified Soil Classification System (USCS). Soil samples will be cut from the liners at selected depths based on field observations and organic vapor measurements collected in the field. Selected samples will be sealed with Teflon tape and end caps, labeled with a unique identifier, and stored over water ice. It is expected that at least 2 to 3 <sup>5011</sup> samples will be selected for possible analyses.

Groundwater samples will be collected from each boring. Upon encountering groundwater, temporary 3/4 inch factory slotted well casing will be installed with blank casing to ground surface. Water levels will be measured before sample collection. Samples will be collected with a peristaltic pump or inertial pump into appropriate laboratory supplied containers.

Upon completion of sampling, all temporary casing and sampling rods will be removed from the borings. Each boring will then be backfilled with neat cement grout to ground surface.

### **6.3 Sample Storage and Analyses**

All samples will be labeled with at a minimum, a unique sample identification, sample date and time, and project number. The samples will be sealed in plastic bags and immediately placed in a pre-chilled cooler over water ice. Samples will be entered onto a chain of custody prior to leaving the site. Samples will be delivered on the day of collection to a California Department of Health Services (DHS) certified analytical laboratory. One

groundwater sample and one to two soil samples will be analyzed from each boring. The proposed analyses for samples selected during this project will include the following:

- Total petroleum hydrocarbons as diesel (TPH-d) by EPA method 8015C/Cm with silica gel cleanup
- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX) by EPA method 8021.
- Methyl tert-butyl ether (MTBE) by EPA method 8260B.

#### **6.4 Equipment Decontamination**

Sampling equipment, including sampling barrels, augers, and other equipment used to sample, will be decontaminated between samples using a triple rinse system containing Alconox™ or similar detergent. Rinse water will be contained in sealed labeled DOT approved 55-gallon drums in a secure location on-site pending proper disposal.

#### **6.5 Waste Handling**

All investigation-derived waste (IDW) will be stored on-site in sealed, labeled 55-gallon drums. IDW will include soil cuttings, plastic sample liners, and other sampling disposables. Equipment rinse water will also be stored in 55-gallon drums, separate from solid IDW. Upon receipt of analytical results, the waste will be profiled into appropriate disposal or recycling facilities and transported from the site under appropriate manifest. Copies of manifest(s) will be made available once final copies are received from the disposal facility(s).

#### **6.6 Site Safety**

AEI will prepare a site specific Health and Safety Plan conforming to Part 1910.120 (i) (2) of 29 CFR. Prior to commencement of field activities, a site safety meeting will be held at a designated command post near the working area. The Health and Safety Plan will be reviewed and emergency procedures will be outlined at this meeting, including an explanation of the hazards of the known or suspected chemicals of interest. All site personnel will be in Level D personal protection equipment, which is the anticipated maximum amount of protection needed. A working area will be established with barricades and warning tape to delineate the zone where hard hats, steel-toed shoes and safety glasses must be worn, and where unauthorized personnel will not be allowed. The site Health and Safety Plan will be on site at all times during the project.



## 7.0 REPORTING

AEI will prepare and issue a final report following receipt of all necessary data. The report will include logs of borings, data tables, figures of drilling and sampling locations, and copies of laboratory analytical reports. It is expected that ACPWA and DWR well survey data will be available for the inclusion in the report. A written discussion of the methods and findings, and recommendations will be included. Based on the presence of a previous release at the site, historical data, including concentrations of site contaminants present at closure will be considered. The information gathered during this investigation will be utilized to begin preparing a conceptual model of the release. Site data will be uploaded into the GeoTracker database, as necessary. The project will be overseen and the report(s) signed by an AEI California registered professional geologist or engineer.

## 8.0 SCHEDULE

Once a scope of work has been agreed upon by all involved parties, drilling permit applications for the soil borings will be submitted. Upon approval of the permits, field work will be scheduled and the ACHCSA will be notified of the schedule. It is expected that the borings will occur within approximately 2 to 3 weeks of permit approval. The final report will be issued with approximately 1 to 2 months of receipt of all necessary documentation.

## 9.0 SIGNATURES

The proposed scope of work has been prepared on behalf of G&G in accordance with generally accepted practices in the environmental engineering and consulting field that existed at the time and location of the work. AEI requests comment and concurrence with this plan. We can be reached at 925/944-2899.

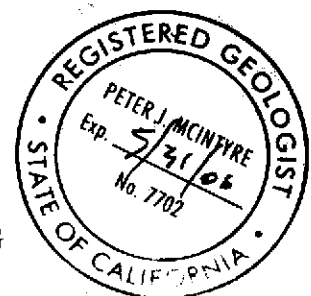
Sincerely,  
AEI Consultants



Jeremy Quick  
Staff Geologist



Peter J. McIntyre, PG  
Project Manager

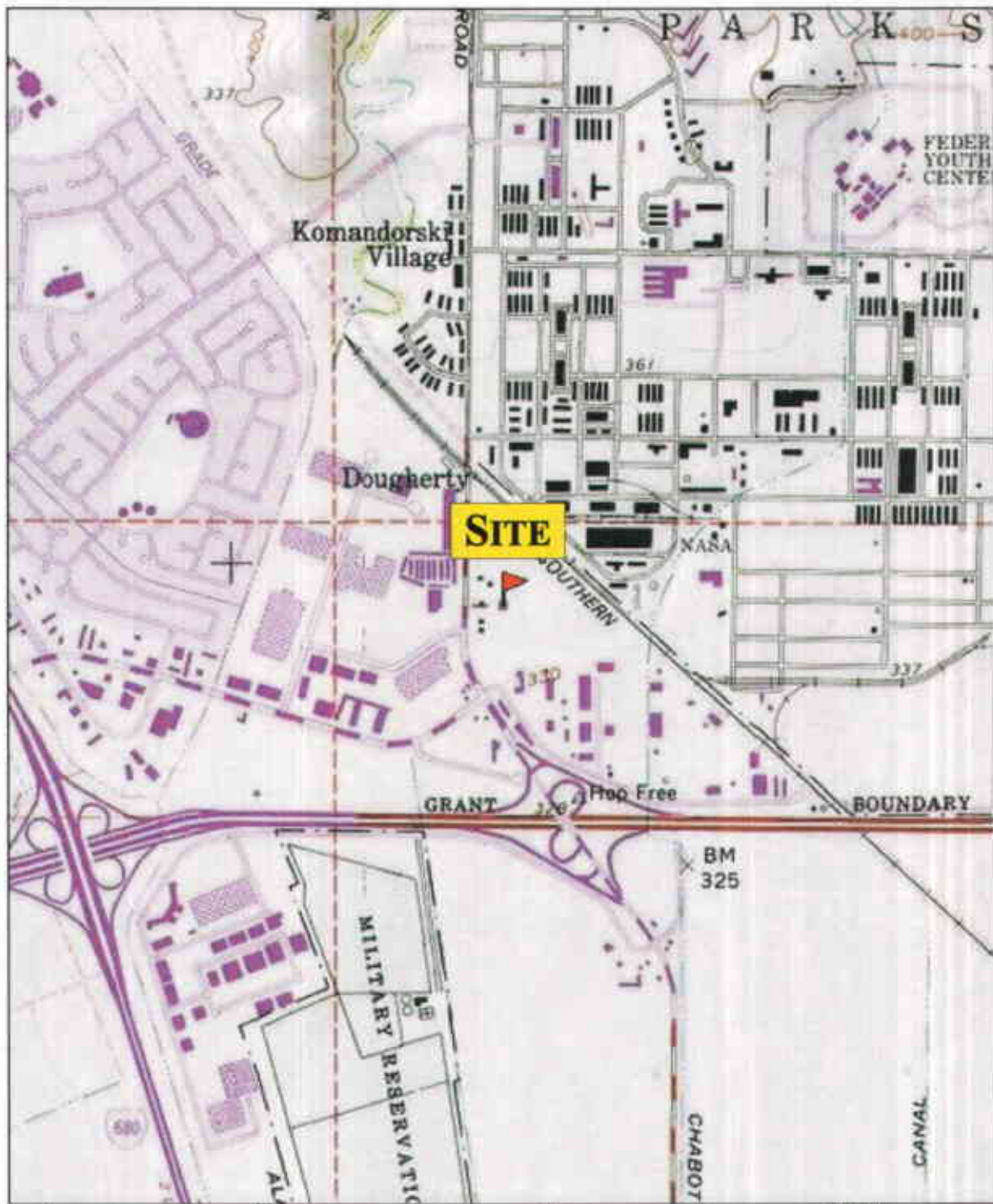


### Distribution:

Mr. Cary Grayson, G&G International Holding Company, 2413 Stirrup Court, Walnut Creek, CA 94596  
Ms. Dona Drogos, ACHCSA, 1131 Harbor Bay Parkway, Suite 250, Alameda CA, 94502

**FIGURES**





TN  
MN  
15°



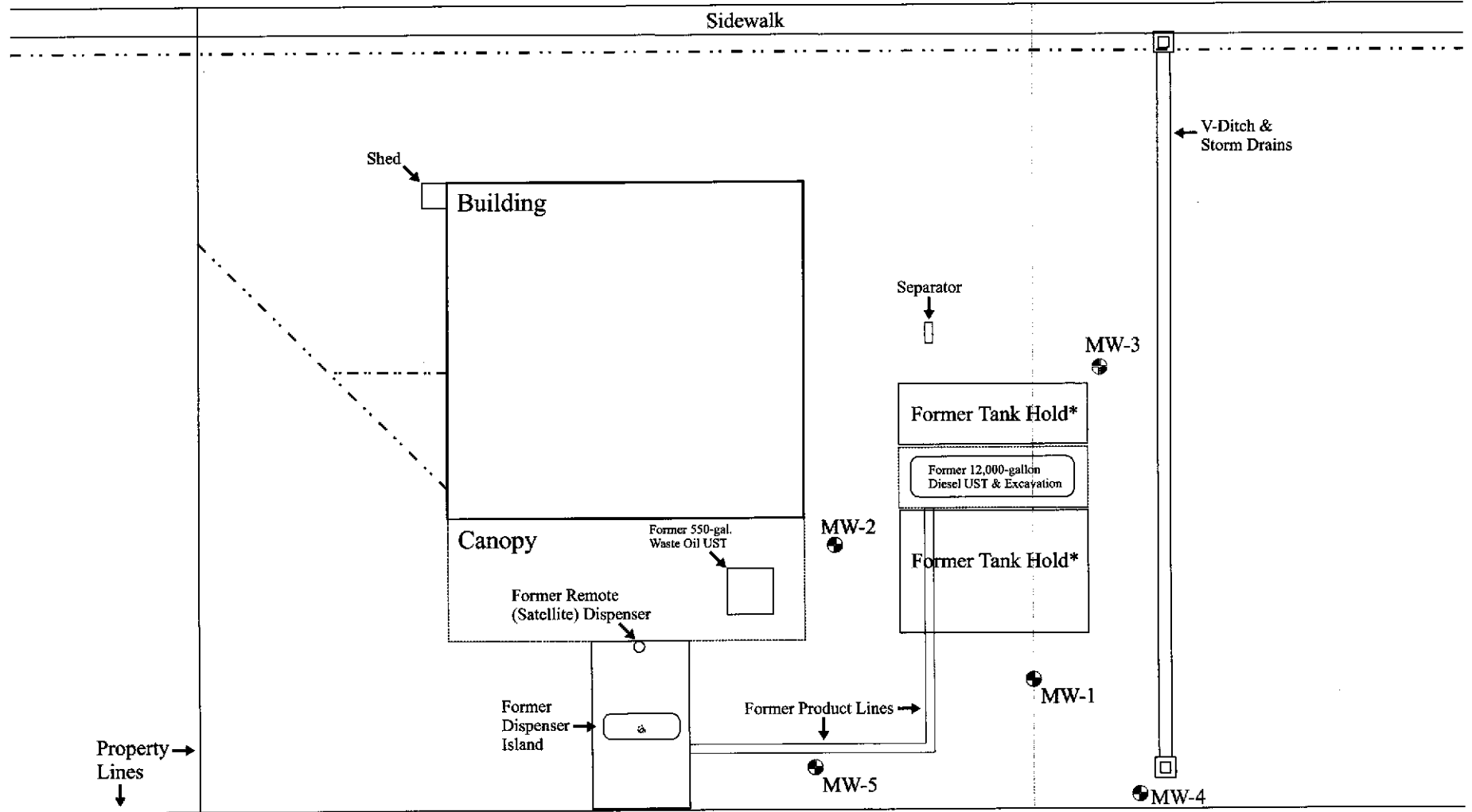
Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)

USGS DUBLIN, CALIFORNIA  
 QUADRANGLE TOPOGRAPHIC MAP  
 Created 1979, Revised 1980

<b>AEI CONSULTANTS</b> 2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597	
<b>SITE LOCATION MAP</b>	
6310 HOUSTON PLACE DUBLIN, CA 94568	<b>FIGURE 1</b> PROJECT No. 11427

Houston Place

Sidewalk



**AEI CONSULTANTS**  
2500 CAMINO DIABLO, STE 200 WALNUT CREEK, CA 94597

**SITE PLAN**

6310 HOUSTON PLACE  
DUBLIN, CA 94568

**FIGURE 2**  
PROJECT No. 11427

**LEGEND**

- Approximate Former Monitoring Well Location
- - - Approximate Location of Subsurface Utilities

\* Due to conflicting and/or erroneous historical data and information contained within prior reports, the exact quantity, location, & configuration of former USTs is not verifiable. Therefore, other former UST areas are labeled "Former Tank Hold."

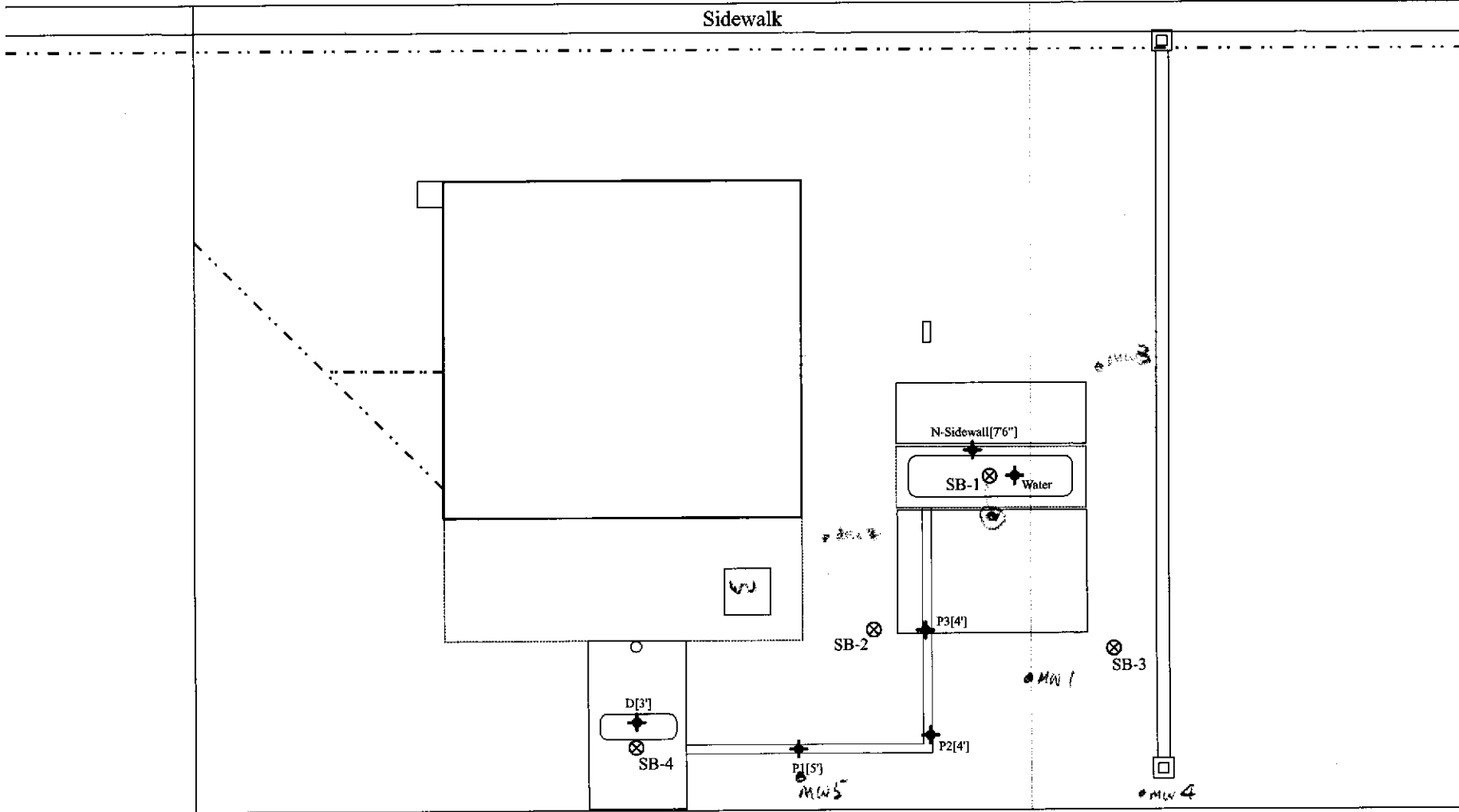
MW-6

0' 10' 20' 30'

Scale: 1 in = 30 ft  
Drawn: 7/6/05

Houston Place

Sidewalk



**AEI CONSULTANTS**  
 2500 CAMINO DIABLO, STE 200 WALNUT CREEK, CA 94597

**PROPOSED SOIL BORINGS**

6310 HOUSTON PLACE  
 DUBLIN, CA 94568

**FIGURE 3**  
 PROJECT No. 11427

**LEGEND**

- ✦ Approximate Former Soil/Groundwater Sample Location (GGTR, 2004)
- ⊗ Proposed Soil Boring Location

0' 10' 20' 30'

Scale: 1 in = 30 ft  
 Drawn: 7/6/05



*MWB*

# TABLES



**Table 1**  
**Soil Sample Analytical Results**

Sample ID	Sample Date	Sample Location	TPH-d	MtBE	Benzene	Toluene	Ethylbenzene	Xylenes
			mg/kg <i>EPA Method 8015M</i>	µg/kg	µg/kg	µg/kg <i>EPA Methods 5030 / 8020F</i>	µg/kg	µg/kg
8559-SP1	10/27/2004	Stockpile	6	<5	<5	<5	<5	<10
8559-SP2	10/27/2004	Stockpile	<1	<5	<5	<5	<5	<10
8559-SP3	10/27/2004	Stockpile	197	<5	<5	<5	<5	<10
8559-P1[5']	10/27/2004	Product Piping	<1	<5	<5	<5	<5	<10
8559-P2[4']	10/27/2004	Product Piping	<1	<5	<5	<5	<5	<10
8559-P3[4']	10/27/2004	Product Piping	<1	<5	<5	<5	<5	<10
8559-N-Sidewall[7'6"]	10/27/2004	UST Excavation	1	<5	<5	<5	<5	<10
		RL	1	5	5	5	5	10

TPH-d = Total Petroleum Hydrocarbons as diesel

MtBE = Methyl tertiary-Butyl Ether

RL = Laboratory reporting limit

mg/kg = milligrams per kilogram (equivalent to parts per million)

µg/kg = micrograms per kilogram (equivalent to parts per billion)

UST = Underground Storage Tank

UST excavation and sampling routine performed by Golden Gate Tank Removal, Inc., October 2004.

**Table 2**  
**Groundwater Sample Analytical Results**

Sample ID	Sample Date	Sample Location	TPH-d	MtBE	Benzene	Toluene	Ethylbenzene	Xylenes
			mg/L <i>EPA Method 8015M</i>	µg/L	µg/L	µg/L <i>EPA Methods 5030 / 8020F</i>	µg/L	µg/L
8559-D[3']	10/27/2004	Dispenser	23.8	1.1	<0.5	<0.5	<0.5	1.8
8559-Water	10/27/2004	UST Excavation	0.3	3.8	<0.5	<0.5	<0.5	<1.0
		RL	0.05	0.5	0.5	0.5	0.5	1.0

TPH-d = Total Petroleum Hydrocarbons as diesel

MtBE = Methyl tertiary-Butyl Ether

RL = Laboratory reporting limit

mg/L = milligrams per liter (equivalent to parts per million)

µg/L = micrograms per kilogram (equivalent to parts per billion)

UST = Underground Storage Tank

UST excavation and sampling routine performed by Golden Gate Tank Removal, Inc., October 2004.



**APPENDIX A**

**HISTORICAL GROUNDWATER MONITORING DATA**



Table 1: Summary of historical groundwater monitoring results for American City Truck Stop, Winning Action Investment, Dublin, CA

ppm

MONITORING WELL MW-1

DATE	TPHD	TOG	B	T	E	X	PNA <sub>s</sub>
8/15/89	10.6	N/A	0.016	ND	0.0024	0.0031	
12/13/89	60.0	N/A	ND	ND	ND	ND	
6/20/90	4.3	7.2	ND	ND	ND	ND	
8/30/90	15.0	20.0	ND	ND	ND	ND	
3/01/91	<0.05	<0.5	N/A	N/A	N/A	N/A	
7/19/91	10.0	20.0	N/A	N/A	N/A	N/A	
1/17/92	3.2	<5	<0.0003	0.0006	0.0004	0.0024	
9/24/92	0.69	ND	ND	ND	ND	ND	
1/28/93	ND	ND	N/A	N/A	N/A	N/A	
10/7/94	ND	ND					ND

MONITORING WELL MW-2

DATE	TPHD	TOG	B	T	E	X
8/15/89	47.0	50.0	ND	ND	ND	ND
12/13/89	34.0	95.0	ND	ND	ND	ND
6/20/90	1.2	ND	ND	ND	ND	ND
8/30/90	1.8	2.5	ND	ND	ND	ND
3/01/91	<0.05	1.9	N/A	N/A	N/A	N/A
7/19/91	2.3	8.9	N/A	N/A	N/A	N/A
1/17/92	0.65	<5	<0.0003	<0.0003	<0.0003	0.0006
9/24/92	0.26	ND	ND	ND	ND	ND
1/28/93	ND	ND	N/A	N/A	N/A	N/A
10/7/94	ND	ND				

MONITORING WELL MW-3

DATE	TPHD	TOG	B	T	E	X
8/15/89	2.0	N/A	ND	ND	ND	ND
12/13/89	1.7	N/A	ND	ND	ND	ND
6/20/90	ND	ND	ND	ND	ND	ND
3/01/91	0.45	0.6	N/A	N/A	N/A	N/A
7/19/91	0.32	0.7	N/A	N/A	N/A	N/A
1/17/92	0.16	<5	<0.0003	<0.0003	<0.0003	0.0003
9/24/92	ND	ND	ND	ND	ND	ND
1/28/93	ND	ND	N/A	N/A	N/A	N/A

MONITORING WELL MW-4

DATE	TPHD	TOG	B	T	E	X
6/20/90	22.0	8.6	ND	ND	ND	ND
8/30/90	0.56	2.4	ND	ND	ND	ND
3/01/91	0.73	1.4	N/A	N/A	N/A	N/A
7/19/91	0.72	1.2	N/A	N/A	N/A	N/A
1/17/92	N/A	N/A	N/A	N/A	N/A	N/A
9/24/92	N/A	N/A	N/A	N/A	N/A	N/A
1/28/93	0.13	ND	N/A	N/A	N/A	N/A
10/7/94	ND	ND				

MONITORING WELL MW-5

DATE	TPHD	TOG	B	T	E	X
3/07/91	74.0	160	<0.0005	0.0012	0.001	0.0022
7/19/91	32.0	34	<0.0005	<0.0005	<0.0005	0.0020
1/17/92	0.66	<5	<0.0003	<0.0003	<0.0003	0.0009

PNA 3

9/24/92	0.17	ND	ND	ND	ND	ND
1/28/93	ND	ND	N/A	N/A	N/A	N/A
10/7/94	BS	0.6	N/A	N/A	N/A	N/A

MONITORING WELL MW-6

ND

DATE	TPHD	TOG	B	T	E	X
3/07/91	<0.05	<0.5	N/A	N/A	N/A	N/A
7/19/91	<0.05	<0.5	N/A	N/A	N/A	N/A
1/17/92	<0.05	<5	<0.0003	<0.0003	<0.0003	<0.0003
9/24/92	ND	ND	ND	ND	ND	ND
1/28/93	ND	ND	ND	ND	ND	ND

DHS/DWS FOR IS: 0.001 FOR BENZENE, 0.680 FOR ETHYLBENZENE AND 1.750 FOR XYLENES.

Note: 1989 and 1990 results reported in Winters Petroleum (1989), Safety Specialists (1989) and NSI (1990).

Concentrations expressed in milligrams per liter (mg/L), or ppm.

Abbreviations

- TPHD - total petroleum hydrocarbons as diesel
- B - benzene
- T - toluene
- X - xylenes
- E - ethylbenzene
- TOG - total oil and grease
- ND - not detected
- N/A - not analyzed
- DHS/DWS - California Department of Health Services Drinking Water Standards (CCR Title 22)