

GRIBI Associates*Geological and Environmental Consulting Services*

October 20, 2005

GA Project No. 147-01-04

Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Attention: Ms. Donna Drogos

Subject: Report of Angle Borings and Extraction Well Installation
Dublin Toyota UST Site
6450 Dublin Court, Dublin, California
Alameda County LOP Site ID No. 699

Alameda County
OCT 25 2005
Environmental Health

Ladies and Gentlemen:

Gribi Associates is pleased to submit this letter report documenting an angle-boring attempt and the installation of two 2-inch diameter dual-phase extraction wells (EW-1 and EW-2) on behalf of Dublin Toyota for the underground storage tank (UST) site located at 6450 Dublin Court in Dublin, California (see Figure 1 and Figure 2). This letter provides a summary of field activities and soil analytical results for the two angle borings and two extraction wells at the site. All activities were conducted in accordance with Gribi Associates' "*Interim Remedial Measures (IRM) Workplan*" (IRM Workplan) dated March 18, 2005 and approved by Alameda County Department of Environmental Health.

SITE BACKGROUND

The Dublin Toyota UST site consisted of three USTs located in a common tank farm which was located outside near the northeast corner of the maintenance garage (see Figure 2). The USTs included two 2,000-gallon steel gasoline tanks and one 1,000-gallon steel waste oil tank. The three USTs were removed from a common excavation by Scott Company on June 10, 1998. Based on soil and grab groundwater sampling results, which showed elevated levels of gasoline- and diesel-range hydrocarbons, the UST excavation cavity was over-excavated, and approximately 500 gallons of groundwater was pumped from the excavation cavity. Approximately 93 tons of hydrocarbon-impacted soil was disposed of offsite, and the UST excavation cavity was backfilled with 162 tons of clean imported fill material.

In December 1998, Gribi Associates drilled and sampled four investigative soil borings, IB-1 through IB-4, and drilled, installed, and sampled two groundwater monitoring wells, MW-1 and MW-2, at the site. Soil and groundwater samples collected from the borings and wells contained no significant levels of hydrocarbons, except for the groundwater sample from well MW-1, located about 15 feet southwest from the former UST cavity. Groundwater samples from this well contained elevated levels of Methyl-t-butyl Ether (MTBE).

In August 2000, Gribi Associates drilled and sampled one soil boring, IB-5, inside the Dublin Toyota service building west from the former USTs, and drilled, installed, and sampled one groundwater monitoring well, MW-3, south-southwest from the former USTs. Soil analytical results from these borings showed no detectable concentrations of gasoline-range hydrocarbons. Groundwater samples from these borings showed concentrations of MTBE that were significantly lower than MTBE concentrations in MW-1, indicating lateral attenuation of MTBE impacts in groundwater southwest from the former USTs. Subsequent groundwater monitoring of the three site groundwater monitoring wells have generally shown decreasing concentrations of MTBE in well MW-1.

DESCRIPTION OF FIELD ACTIVITIES

Two angle borings were drilled and sampled on May 9, 2005. The purpose for angle borings was to attempt to locate the Class II base-rock backfill from the UST excavation by drilling from outside of the existing vehicle wash/detailing structure presently over the footprint of the former UST excavation.

The two angle borings failed to encounter the UST excavation backfill material. Thus, two vertical, dual-phase extraction wells were drilled, sampled, and installed on July 29, 2005 within the existing vehicle wash/detailing structure.

Pre-field Activities

Prior to beginning field activities, a drilling permit was obtained from Alameda County Zone 7 Water Agency. The angle borings were conducted under Permit No. 25060 and the extraction wells were installed under Permit No. 25123. Copies of the permits are provided as Attachment A.

The four proposed well locations were marked with white paint, and Underground Services Alert (USA) was notified at least 48 hours prior to drilling. In addition, a private underground utility locator was retained to conduct an independent clearance of the same proposed well locations.

Prior to initiating drilling activities, a Site Safety Plan was prepared, and a tailgate safety meeting was conducted with all site workers.

Angle Boring Drilling and Sampling Activities

Location of Angle Borings

Angle borings were sited outside the southern wall of the vehicle wash/detailing building. The intent was to angle bore downward to the north at an approximate 45-degree angle in order to intercept the Class II base-rock backfill of the UST excavation.

Drilling of Angle Borings

Two angle boring were cored to a total length of approximately 28 feet, or a total vertical depth of approximately 14 feet. The borings were conducted by Gregg Drilling using a Geoprobe rig. After conducting, 2

For each boring, continuous soil cores were collected to total depth in each boring in a clear plastic acetate tube, nested inside a stainless steel core barrel. After each four-foot core barrel was brought to the surface and exposed, the core was sliced lengthwise to expose the soil core, examined, and logged by a qualified geologist using sight and smell. Following completion, the investigative borings were grouted to match existing surface grade using a cement slurry. Soil cuttings generated during this investigation were stored onsite in sealed DOT-approved containers pending laboratory analysis and profiling.

Laboratory Analysis of Soil and Water Samples

Five soil samples and one grab groundwater sample were analyzed for the following parameters:

- USEPA 8260B Total Petroleum Hydrocarbons as Gasoline (TPH-G)
- USEPA 8260B Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
- USEPA 8260B Methyl Tert-Butyl Ether (MTBE)
- USEPA 8260B Oxygenates

All analyses were conducted by a SunStar Laboratories (a state-certified laboratory) with standard turnaround on results.

Extraction Well Drilling and Sampling Activities

Location of Extraction Wells

The two extractions wells were installed in the southernmost vehicle washing/detailing bay adjacent to the east wall of the maintenance garage. The borings were located within the UST excavation area that had been backfilled with Class II base-rock. Figure 2 shows the locations of the extraction wells.

Drilling of Extraction Well Borings

The two extraction well borings were drilled to a depth of 15 feet below surface grade by Gregg Drilling using an 8-inch diameter hollow-stem auger drill rig. Prior to drilling, a pilot boring was conducted using direct-push technology for the purpose of logging soils and collecting soil samples. For each boring, continuous soil cores were collected to total depth in each boring in a clear plastic acetate tube, nested inside a stainless steel core barrel. After each four-foot core barrel was brought to the surface and exposed, the core was sliced lengthwise to expose the soil core, examined, and logged by a qualified geologist using sight and smell. Soil cuttings generated during this

investigation were stored onsite in sealed DOT-approved containers pending laboratory analysis and profiling.

Installation of Groundwater Monitoring Wells

Extraction wells EW-1 and EW-2 were constructed using 2-inch diameter Schedule 40 threaded PVC casing according to the following specifications: (1) 0.020-inch slotted well casing was placed from approximately 5 feet to 15 feet below surface grade; (2) Filter sand was placed around the casing to approximately 1 feet above of top of screen, or a depth of approximately 4 feet below surface grade; (3) A 1 foot bentonite seal was placed above the filter sand to approximately 3 feet below surface grade; and (4) The remaining annulus was grouted using a Type II Portland cement slurry (two 90-pound bags of cement to 30 gallons of water) to approximate grade. The top of the well casing was cut approximately 6 inches below surface grade was enclosed in traffic-rated, flush-mounted well box set in concrete. Well construction details for the two extraction wells are included on the well boring logs in Appendix B.

Laboratory Analysis of Soil and Water Samples

Two soil samples were analyzed for the following parameters:

- USEPA 8260B Total Petroleum Hydrocarbons as Gasoline (TPH-G)
- USEPA 8260B Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
- USEPA 8260B Methyl Tert-Butyl Ether (MTBE)
- USEPA 8260B Oxygenates

All analyses were conducted by a SunStar Laboratories (a state-certified laboratory) with standard turnaround on results.

RESULTS OF FIELD ACTIVITIES

General Subsurface Conditions

Angle Borings

Soils encountered below the 4-inch asphaltic concrete and 6-inch Class II base-rock subsurface consisted primarily of silty, sandy clays near the surface to higher-quality brown to dark grey clays at the total vertical depth of the boring at 15 feet. Slight fuel hydrocarbon odors were observed in soil samples from both angle borings.

Extraction Well Installation

Soils encountered below the 6-inch slab surface in both extraction well borings consisted of Class II base-rock material to approximately 12 feet below grade, followed by a grey clay to the depth of

the boring at 15 feet. Slight fuel hydrocarbon odors were noted in soil cores and cuttings from both borings.

Boring logs for the two extraction well borings are included as Attachment B.

Laboratory Analytical Results

Angle Boring Soil and Groundwater Analytical Results

During drilling of AB-1, five soil samples were collected at varying depths, along with one grab groundwater sample. All five samples showed non-detectable levels of total petroleum hydrocarbons as gasoline (TPH-g). Benzene was detected in three of the five samples and showed decreasing concentrations with respect to depth. Benzene concentrations were 18 micrograms per kilogram (mg/kg), 7.8 ug/kg, and 5.5 ug/kg at depths of 1.75 feet, 5.25 feet, and 8.75 feet, respectively. MTBE was detected in four of the five soil samples with concentrations ranging from 430 ug/kg at a depth of 1.75 feet to 1,400 ug/kg at a depth of 13.75 feet.

Analytical results for the grab groundwater sample collected at AB-1 showed concentrations of 74 ug/liter (ug/L) TPH-G, 19 ug/L benzene, 0.80 ug/L toluene, 2.2 ug/L ethylbenzene, and 14,000 ug/L MTBE. Groundwater results also showed detectable levels of other oxygenates.

Extraction Well Soil Analytical Results

Analytical results for the soil sample collected at the backfill-native interface at EW-1 showed non-detectable levels for all analytes except for 410 micrograms per kilogram (ug/kg) MTBE. Analytical results for the soil sample collected at the backfill-native interface at EW-2 showed concentrations of 790 ug/kg TPH-g, 11 ug/kg ethylbenzene, 17 ug/kg total xylenes, 1980 ug/kg tert-butyl alcohol, and 540 ug/kg MTBE.

Soil analytical results are summarized in Table 1. The laboratory data report for soil and groundwater samples is contained in Appendix C.

CONCLUSIONS

Gribi Associates was successful at installing two dual-phase extraction wells (EW-1 and EW-2) within the UST excavation area. The extraction wells will be utilized to remove impacted soil vapor and groundwater from the subsurface, which is believed to be a source of groundwater impacts at the site. Soil and groundwater analytical results showed elevated levels of fuel hydrocarbons. Soil vapor and groundwater extraction will be conducted as outlined in the IRM Workplan.

Ms. Donna Drogos
Alameda County Department of Environmental Health
October 20, 2005
Page 6

We appreciate this opportunity to provide this report for your review. Please contact us if there are questions or if additional information is required.

Very truly yours,



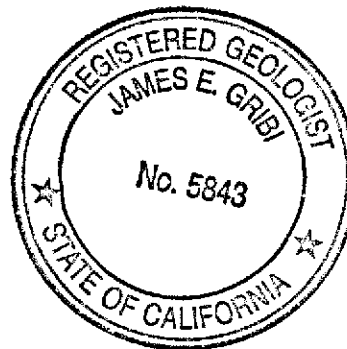
Matthew A. Rosman
Project Engineer

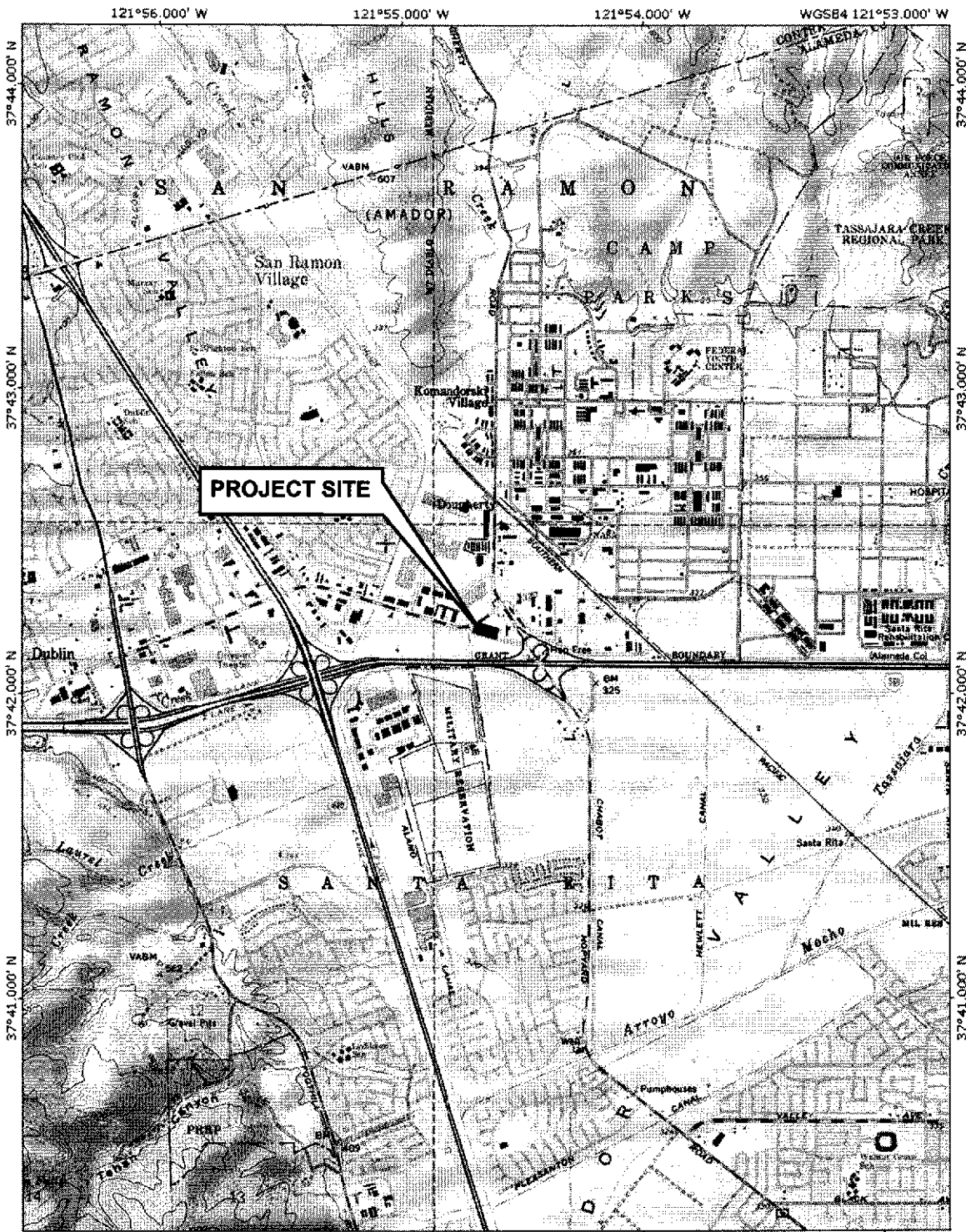
Enclosure

cc: Mr. Scott Anderson, Dublin Toyota



James E. Gribi
Registered Geologist
California No. 5843



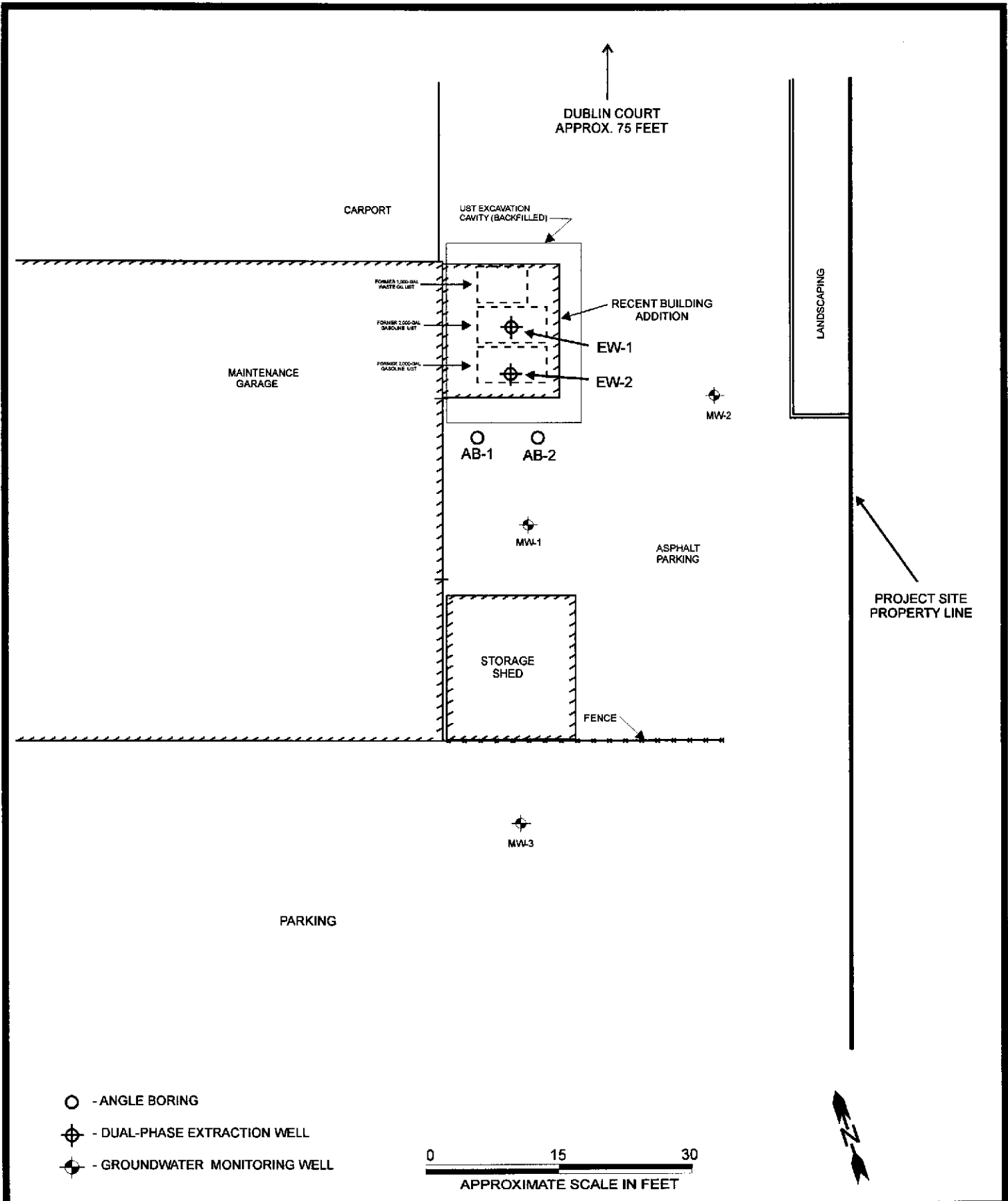


DESIGNED BY:	CHECKED BY:
DRAWN BY: EGH	SCALE:
PROJECT NO: 147-01	

SITE VICINITY MAP

DUBLIN TOYOTA
6450 DUBLIN COURT
DUBLIN, CALIFORNIA

DATE: 05/07/03	FIGURE: 1
GRIBI Associates	



DESIGNED BY:	CHECKED BY:	SITE PLAN SHOWING EXTRACTON WELL AND ANGLE BORING LOCATIONS DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA	DATE: 10/18/05	FIGURE: 2
DRAWN BY: MR	SCALE:		<h1>GRIBI Associates</h1>	
PROJECT NO: 147-01-05				

Table 1
SUMMARY OF SOIL LABORATORY ANALYTICAL RESULTS
 Dublin Toyota UST Site, San Francisco, CA

Sample ID	Sample Depth	Concentrations in parts per billion (soil is ug/kg, water is ug/L)						
		TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Other Oxygenates
ANGLE BORINGS								
Soil								
AB-1-3.5	1.75 ft	<500	18	17	7.0	14	430	320 TBA
AB-A-10.5	5.25 ft	<500	7.8	<2.0	<2.0	<4.0	1,100	110 TAME
AB-1-17.5	8.75 ft	<500	5.5	<2.0	2.6	<4.0	1,300	230 TBA
AB-1-24.0	12.0 ft	<500	<2.0	5.1	<2.0	<4.0	<5.0	1,100 DIPE
AB-1-27.5	13.75 ft	<500	<2.0	4.7	<2.0	<4.0	1,400	All ND
Water								
AB-1-W	--	74	19	0.80	2.2	<1.0	14,000	14 TAME 470 TBA 2.4 ETBE
EXTRACTION WELL INSTALLATION								
Soil								
EW-1	12 ft	<500	<2.0	<2.0	<4.0	<4.0	410	All ND
EW-2	12 ft	790	<2.0	<2.0	11	17	540	190 TBA

NOTES:

ug = micrograms

kg = kilograms

L = liter

TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl Tert-Butyl Ether

TBA = Tert-Butyl Alcohol

TAME = Tert-amyl Methyl Ether

ETBE = Ethyl tert-butyl ether

ATTACHMENT A
DRILLING PERMIT



ZONE 7 WATER AGENCY

5897 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235 FAX (925) 482-3014

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Dublin Toyota
6450 Dublin Ct
Dublin, CA

PERMIT NUMBER 25060
WELL NUMBER _____
APN 941-1400-007-00

California Coordinates Source _____ Accuracy: _____ ft.
NAD 83 37° 42' 11.7" N 121° 54' 36.4" W
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT
Name Dublin Toyota
Address 6450 Dublin Ct Phone 925-829-7700
City Dublin CA Zip 94568-0549

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

APPLICANT
Name Gribi Associates
Address 1090 Adams St B1C Phone 925-748-3343
City Berkeley, CA Zip 94710

- B. WATER SUPPLY WELLS
 1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:
Well Construction Geotechnical Investigation
Well Destruction Contamination Investigation
Cathodic Protection Other _____

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.

PROPOSED WELL USE:
Domestic Irrigation
Municipal Remediation
Industrial Groundwater Monitoring
Dewatering Other _____

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

DRILLING METHOD:
Mud Rotary Air Rotary Hollow Stem Auger
Cable Tool Direct Push Other _____

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

DRILLING COMPANY Gregg Drilling
DRILLER'S LICENSE NO. 2-578483 185

- (E) WELL DESTRUCTION. See attached.
- (G) SPECIAL CONDITIONS: Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

WELL SPECIFICATIONS:
Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

SOIL BORINGS:
Number of Borings 12 Maximum _____
Hole Diameter 2.5 in. Depth 50 ft.

ESTIMATED STARTING DATE May 2, 2005
ESTIMATED COMPLETION DATE May 5, 2005

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

Approved Wyman Hong Date 4/29/05
Wyman Hong

APPLICANT'S SIGNATURE [Signature] Date 4/22/2005

ATTACH SITE PLAN OR SKETCH



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 454-5728

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Dublin Toyota
4550 Dublin Ct
Dublin, CA

PERMIT NUMBER 25123
WELL NUMBER 3S/1E-6F40 & 3S/1E-6F41
APN 941-1400-007-00

CLIENT
Name Dublin Toyota
Address 4550 Dublin Ct Phone 925-839-7700
City Dublin, CA Zip _____

APPLICANT
Name Gabi Associates Fax 925-839-7767
Address 1090 Adams Blvd Phone 925-248-7743
City San Jose, CA Zip 95128

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

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

DILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other _____

DRILLER'S NAME Gregg Drilling
DRILLER'S LICENSE NO. C-57 485165

WELL PROJECTS
Drill Hole Diameter 6 in. Maximum Depth 12 ft. EW-1
Casing Diameter 2 in. Owner's Well Number EW-2
Surface Seal Depth 4 ft.

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

STARTING DATE 7/29/05
COMPLETION DATE 7/29/05

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-08.

APPLICANT'S SIGNATURE [Signature] DATE 7/25/05

PLEASE PRINT NAME Matthew R. Jensen

Rev. 5-11-04 Approved [Signature] Date 7/27/05
Wyman Hong

PERMIT CONDITIONS

Circled Permit Requirements Apply

- A. GENERAL**
 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS**
 1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.6 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
 1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.
- D. GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION.** See attached.
- G. SPECIAL CONDITIONS** Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results.**

ATTACHMENT B

BORING LOGS

LOG OF SOIL BORING

SHEET 1 OF 1

BORING NUMBER : EW-1

BORING LOCATION: 6450 DUBLIN COURT
DUBLIN, CA

BORING TYPE: EXTRACTION WELL

PROJECT NAME: DUBLIN TOYOTA

PROJECT NUMBER: 147-01-05

GRIBI Associates

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: HOLLOW STEM AUGER

BOREHOLE DIAMETER: 8.0 INCHES




COMPLETION METHOD: MONITORING WELL

BORING TOTAL DEPTH: 15.0 FEET

START DATE: 07/29/2005

COMPLETION DATE: 07/29/2005

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS  - INITIAL  - FINAL	USCS	LOG OF MATERIAL	PIEZOMETER WELL INSTALLATION																				
5						0.0 - 0.5 ft. Concrete																					
10					GP	0.5 - 12.0 ft. Sandy Gravel (GP) Grey, 3/4-inch Class II base rock fill material, slight hydrocarbon odor, no sheen.																					
15	EW-1	12.0 FT.			CL	12.0 - 15.0 Ft. Clay (CL) Grey, moist, medium stiff, no odor or staining.																					
						TOTAL DEPTH: 15.0 FEET GROUNDWATER:																					
<table border="1"> <thead> <tr> <th colspan="4">WELL SPECIFICATIONS</th> </tr> </thead> <tbody> <tr> <td>A - WELL SCREEN DEPTH:</td> <td>5.00 FT</td> <td>CASING TYPE:</td> <td>SCH 40 PVC</td> </tr> <tr> <td>B - WELL SCREEN LENGTH:</td> <td>10.00 FT</td> <td>CASING SIZE:</td> <td>2"</td> </tr> <tr> <td>C - DEPTH TO TOP OF SAND:</td> <td>4.0 FT</td> <td>SLOT SIZE:</td> <td>0.02"</td> </tr> <tr> <td>D - DEPTH BENTONITE SEAL:</td> <td>3.0 FT</td> <td></td> <td></td> </tr> </tbody> </table>								WELL SPECIFICATIONS				A - WELL SCREEN DEPTH:	5.00 FT	CASING TYPE:	SCH 40 PVC	B - WELL SCREEN LENGTH:	10.00 FT	CASING SIZE:	2"	C - DEPTH TO TOP OF SAND:	4.0 FT	SLOT SIZE:	0.02"	D - DEPTH BENTONITE SEAL:	3.0 FT		
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D - DEPTH BENTONITE SEAL:	3.0 FT																										
20																											
25																											

BORING NUMBER : EW-2

BORING LOCATION: 6450 DUBLIN COURT
DUBLIN, CA

BORING TYPE: EXTRACTION WELL

PROJECT NAME: DUBLIN TOYOTA

PROJECT NUMBER: 147-01-05

LOG OF SOIL BORING

GRIBI Associates

SHEET 1 OF 1

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: HOLLOW STEM AUGER

BOREHOLE DIAMETER: 8.0 INCHES

COMPLETION METHOD: MONITORING WELL

BORING TOTAL DEPTH: 15.0 FEET

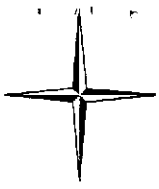
GROUNDWATER DEPTH:

START DATE: 07/29/2005

COMPLETION DATE: 07/29/2005

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▲ - FINAL	USCS	LOG OF MATERIAL	PIEZOMETER WELL INSTALLATION																
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ATTACHMENT C
LABORATORY ANALYTICAL RESULTS



SunStar Laboratories, Inc.

16 May 2005

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510
RE: Dublin Toyota

Enclosed are the results of analyses for samples received by the laboratory on 05/11/05 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dennis Dorning
Project Manager

Gribi Associates
1090 Adam Street, Suite K
Benicia CA, 94510

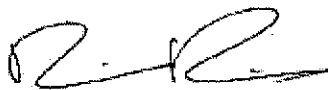
Project: Dublin Toyota
Project Number: [none]
Project Manager: Jim Gribi

Reported:
05/16/05 15:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AB-1-3.5	T500574-01	Soil	05/09/05 08:30	05/11/05 09:00
AB-1-10.5	T500574-02	Soil	05/09/05 08:45	05/11/05 09:00
AB-1-17.5	T500574-03	Soil	05/09/05 08:50	05/11/05 09:00
AB-1-24.0	T500574-04	Soil	05/09/05 09:00	05/11/05 09:00
AB-1-27.5	T500574-05	Soil	05/09/05 09:10	05/11/05 09:00
AB-1-W	T500574-06	Water	05/09/05 09:20	05/11/05 09:00

SunStar Laboratories, Inc.



Dennis Dorning, Project Manager

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

Gribi Associates
 1090 Adam Street, Suite K
 Benicia CA, 94510

Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 05/16/05 15:31

AB-1-3.5
T500574-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.


Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	500	ug/kg	1	5051104	05/11/05	05/12/05	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		83.2 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	18	2.0	ug/kg	1	5051105	05/11/05	05/12/05	EPA 8260B	
Toluene	17	2.0	"	"	"	"	"	"	
Ethylbenzene	7.0	2.0	"	"	"	"	"	"	
m,p-Xylene	14	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	320	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	430	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.1 %	85.8-113		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	73.5-115		"	"	"	"	
Surrogate: Dibromofluoromethane		87.6 %	79-126		"	"	"	"	

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Gribi Associates
 1090 Adam Street, Suite K
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Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 05/16/05 15:31

AB-1-10.5
T500574-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

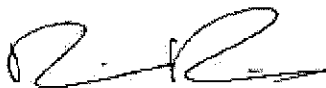
Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	500	ug/kg	1	5051104	05/11/05	05/13/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.2 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	7.8	2.0	ug/kg	1	5051105	05/11/05	05/12/05	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	110	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1100	5.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.3 %	85.8-113		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.6 %	73.5-115		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		118 %	79-126		"	"	"	"	

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Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 05/16/05 15:31

AB-1-17.5
T500574-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	500	ug/kg	1	5051104	05/11/05	05/12/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.4 %		65-135	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	5.5	2.0	ug/kg	1	5051105	05/11/05	05/12/05	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	2.6	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	230	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1300	5.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.4 %		85.8-113	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %		73.5-115	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		88.1 %		79-126	"	"	"	"	

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Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 05/16/05 15:31

AB-1-24.0
T500574-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	500	ug/kg	1	5051104	05/11/05	05/13/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.0 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	2.0	ug/kg	1	5051105	05/11/05	05/12/05	EPA 8260B	
Toluene	5.1	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	1100	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.5 %	85.8-113		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	73.5-115		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		89.9 %	79-126		"	"	"	"	

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Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 05/16/05 15:31

AB-1-27.5
T500574-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	500	ug/kg	1	5051104	05/11/05	05/12/05	EPA 8015m	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.0 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	2.0	ug/kg	1	5051105	05/11/05	05/12/05	EPA 8260B	
Toluene	4.7	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1400	5.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.1 %	85.8-113		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	73.5-115		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		89.2 %	79-126		"	"	"	"	

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 1090 Adam Street, Suite K
 Benicia CA, 94510

Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 05/16/05 15:31

AB-1-W
T500574-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	74	50	ug/l	1	5051107	05/11/05	05/13/05	EPA 8015m	
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<i>Surrogate: 4-Bromofluorobenzene</i>		<i>75.0 %</i>	<i>65-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
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Volatle Organic Compounds by EPA Method 8260B

Benzene	19	0.50	ug/l	1	5051106	05/11/05	05/11/05	EPA 8260B	
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Toluene	0.80	0.50	"	"	"	"	"	"	
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Ethylbenzene	2.2	0.50	"	"	"	"	"	"	
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m,p-Xylene	ND	1.0	"	"	"	"	"	"	
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o-Xylene	ND	0.50	"	"	"	"	"	"	
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Tert-amyl methyl ether	14	2.0	"	"	"	"	"	"	
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Tert-butyl alcohol	470	10	"	"	"	"	"	"	
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Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
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Ethyl tert-butyl ether	2.4	2.0	"	"	"	"	"	"	
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Methyl tert-butyl ether	14000	50	"	50	"	"	"	"	
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<i>Surrogate: Toluene-d8</i>		<i>94.2 %</i>	<i>87.6-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
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<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>80-112</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
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<i>Surrogate: Dibromofluoromethane</i>		<i>81.5 %</i>	<i>78.6-122</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
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Dennis Dorning, Project Manager

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 1090 Adam Street, Suite K
 Benicia CA, 94510

Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 05/16/05 15:31

Purgeable Petroleum Hydrocarbons by EPA 8015m - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5051104 - EPA 5030 GC										
Blank (5051104-BLK1) Prepared: 05/11/05 Analyzed: 05/12/05										
C6-C12 (GRO)	ND	500	ug/kg							
Surrogate: 4-Bromofluorobenzene	105		"	125		84.0	65-135			
LCS (5051104-BS1) Prepared: 05/11/05 Analyzed: 05/12/05										
C6-C12 (GRO)	15000	500	ug/kg	13800		109	75-125			
Surrogate: 4-Bromofluorobenzene	109		"	125		87.2	65-135			
LCS Dup (5051104-BSD1) Prepared: 05/11/05 Analyzed: 05/13/05										
C6-C12 (GRO)	15000	500	ug/kg	13800		109	75-125	0.00	20	
Surrogate: 4-Bromofluorobenzene	116		"	125		92.8	65-135			
Batch 5051107 - EPA 5030 GC										
Blank (5051107-BLK1) Prepared: 05/11/05 Analyzed: 05/13/05										
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	41.9		"	50.0		83.8	65-135			
LCS (5051107-BS1) Prepared: 05/11/05 Analyzed: 05/13/05										
C6-C12 (GRO)	6260	50	ug/l	5500		114	75-125			
Surrogate: 4-Bromofluorobenzene	46.7		"	50.0		93.4	65-135			
LCS Dup (5051107-BSD1) Prepared: 05/11/05 Analyzed: 05/16/05										
C6-C12 (GRO)	6160	50	ug/l	5500		112	75-125	1.61	20	
Surrogate: 4-Bromofluorobenzene	45.7		"	50.0		91.4	65-135			

SunStar Laboratories, Inc.



Dennis Dorning, Project Manager

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Gribi Associates
 1090 Adam Street, Suite K
 Benicia CA, 94510

Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 05/16/05 15:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5051105 - EPA 5030 GCMS

Blank (5051105-BLK1)

Prepared: 05/11/05 Analyzed: 05/12/05

Benzene	ND	2.0	ug/kg							
Toluene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
m,p-Xylene	ND	4.0	"							
o-Xylene	ND	2.0	"							
Tert-amyl methyl ether	ND	5.0	"							
Tert-butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	5.0	"							
Ethyl tert-butyl ether	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Surrogate: Toluene-d8	94.2		"	100		94.2	85.8-113			
Surrogate: 4-Bromofluorobenzene	106		"	100		106	73.5-115			
Surrogate: Dibromofluoromethane	87.8		"	100		87.8	79-126			

LCS (5051105-BS1)

Prepared: 05/11/05 Analyzed: 05/13/05

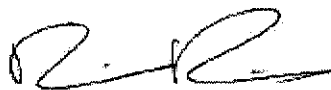
Benzene	213	2.0	ug/kg	250		85.2	75-125			
Toluene	210	2.0	"	250		84.0	75-125			
Surrogate: Toluene-d8	95.3		"	100		95.3	85.8-113			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	73.5-115			
Surrogate: Dibromofluoromethane	108		"	100		108	79-126			

LCS Dup (5051105-BSD1)

Prepared: 05/11/05 Analyzed: 05/13/05

Benzene	224	2.0	ug/kg	250		89.6	75-125	5.03	20	
Toluene	204	2.0	"	250		81.6	75-125	2.90	20	
Surrogate: Toluene-d8	99.0		"	100		99.0	85.8-113			
Surrogate: 4-Bromofluorobenzene	106		"	100		106	73.5-115			
Surrogate: Dibromofluoromethane	115		"	100		115	79-126			

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Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5051106 - EPA 5030 GCMS

Blank (5051106-BLK1)

Prepared & Analyzed: 05/11/05

Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
<i>Surrogate: Toluene-d8</i>	37.2		"	40.0		93.0	87.6-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	42.8		"	40.0		107	80-112			
<i>Surrogate: Dibromofluoromethane</i>	35.4		"	40.0		88.5	78.6-122			

LCS (5051106-BS1)

Prepared & Analyzed: 05/11/05

Benzene	84.9	0.50	ug/l	100		84.9	75-125			
Toluene	80.6	0.50	"	100		80.6	75-125			
<i>Surrogate: Toluene-d8</i>	37.9		"	40.0		94.8	87.6-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	43.8		"	40.0		110	80-112			
<i>Surrogate: Dibromofluoromethane</i>	42.8		"	40.0		107	78.6-122			


Matrix Spike (5051106-MS1)

Source: T500573-01

Prepared & Analyzed: 05/11/05

Benzene	162	0.50	ug/l	100	79	83.0	75-125			
Toluene	89.4	0.50	"	100	6.4	83.0	75-125			
<i>Surrogate: Toluene-d8</i>	38.8		"	40.0		97.0	87.6-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	39.9		"	40.0		99.8	80-112			
<i>Surrogate: Dibromofluoromethane</i>	36.5		"	40.0		91.2	78.6-122			

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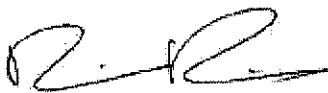
Project: Dublin Toyota
Project Number: [none]
Project Manager: Jim Gribi

Reported:
05/16/05 15:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5051106 - EPA 5030 GCMS										
Matrix Spike Dup (5051106-MSD1)										
Source: T500573-01 Prepared & Analyzed: 05/11/05										
Benzene	167	0.50	ug/l	100	79	88.0	75-125	3.04	20	
Toluene	86.0	0.50	"	100	6.4	79.6	75-125	3.88	20	
Surrogate: Toluene-d8	37.4		"	40.0		93.5	87.6-115			
Surrogate: 4-Bromofluorobenzene	41.0		"	40.0		102	80-112			
Surrogate: Dibromofluoromethane	34.8		"	40.0		87.0	78.6-122			

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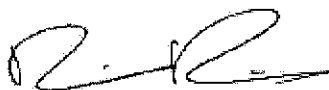
Project: Dublin Toyota
Project Number: [none]
Project Manager: Jim Gribi

Reported:
05/16/05 15:31

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

SunStar Laboratories, Inc.



Dennis Dorning, Project Manager

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