REPORT OF ADDITIONAL SOIL AND GROUNDWATER CHARACTERIZATION

Dublin Toyota UST Site
6450 Dublin Court
Dublin, California

Alameda County LOP Site ID No. 699
GA Project No. 147-01-02

Prepared for:

Mr. Scott Anderson
Dublin Toyota
6450 Dublin Court
Dublin, California

- Can discontinue TPHd analysis.
- Do SCM to determine if any sensitive receptors in vicinity

Prepared by:

Gribi Associates
1350 Hayes Street, Suite C-14
Benicia, CA 94510
(707)748-7743

September 29, 2000

September 29, 2000

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

Attention: Eva Chu

Subject: Report of Additional Soil and Groundwater Characterization
Dublin Toyota UST Site
6450 Dublin Court, Dublin, California
Alameda County LOP Site ID No. 699
GA Project No. 147-01-02

Ladies and Gentlemen:

Gribi Associates is pleased to submit this report on behalf of Dublin Toyota providing results of a recently completed soil and groundwater investigation conducted at the Dublin Toyota underground storage tank (UST) site located at 6450 Dublin Court in Dublin, California. The soil and groundwater investigation included: (1) The drilling and sampling of one Geoprobe™ boring, IB-5, west from the former USTs; (2) The drilling and installation of one groundwater monitoring well, MW-3, southwest from existing well MW-1; and (3) The monitoring of three groundwater monitoring wells, MW-1, MW-2, and MW-3, at the site. The goals of this investigation were to attempt to determine groundwater flow gradient and to provide additional assessment of soil and groundwater quality adjacent to former UST components at the site.

As with soil analytical results from previous borings and wells, no significant hydrocarbon constituents were detected in soil samples from IB-5 or MW-3. Thus, it appears that the UST removal, soil overexcavation, and groundwater pumping activities conducted in 1998 during UST removal activities were successful in mitigating all significantly hydrocarbon-impacted soils at the site.

Although elevated levels of MTBE continue to be detected in groundwater samples from well MW-1, MTBE concentrations in groundwater samples from MW-3 and IB-5 are significantly lower. These data, together with the relatively flat groundwater flow gradient beneath the site, seem to suggest a localized, concentrated groundwater MTBE plume that has not migrated significantly.

Based on results of this investigation, we recommend conducting quarterly groundwater monitoring of the three project site wells for three more quarters to assess long-term groundwater conditions beneath the site.

We appreciate the opportunity to present this report for your review. Please call if you have questions or require additional information.

Very truly yours,

James E. Gribi
Registered Geologist
California No. 5843

JEG/ct
Enclosure

c Mr. Scott Anderson, Dublin Toyota

File: GA-27/DubToy.rp1

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APPENDICES

1.0 INTRODUCTION

This report documents a recently-completed soil and groundwater investigation conducted at the Dublin Toyota underground storage tank (UST) site located at 6450 Dublin Court in Dublin, California (see Figure 1 and Figure 2). The soil and groundwater investigation included: (1) The drilling and sampling of one Geoprobe™ boring, IB-5, west from the former USTs; (2) The drilling and installation of one groundwater monitoring well, MW-3, southwest from existing well MW-1; and (3) The monitoring of three groundwater monitoring wells, MW-1, MW-2, and MW-3, at the site. The goals of this investigation were to attempt to determine groundwater flow gradient and to provide additional assessment of soil and groundwater quality adjacent to former UST components at the site.

1.1 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 overexcavated, 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.

In July 1999, Alameda County Department of Environmental Health requested a workplan to assess groundwater flow direction and quality. Gribi Associates submitted a workplan on October 11, 1999 proposing to install one additional groundwater monitoring well further southwest from well MW-1. This workplan was approved by Alameda County Department of Environmental Health with the provision that an additional soil boring be drilled inside the service building, west from the former UST cavity.

1.2 Scope of Work

Gribi Associates was contracted by Dublin Toyota to conduct the following scope of work:

- **Task 1** **Prepare workplan.**
- **Task 2** **Conduct prefield activities.**
- **Task 3** **Conduct drilling and well installation activities.**
- **Task 4** **Conduct groundwater monitoring.**

- **Task 5** **Conduct laboratory analyses.**
- **Task 6** **Prepare report of findings.**
- **Task 7** **Manage investigative spoils**
- **Task 8** **Conduct quarterly groundwater monitoring**

These tasks were conducted in accordance with the approved workplan and with guidelines contained in *Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites*, (August 10, 1990) and *LUFT Field Manual*, (October 18, 1989).

1.3 Limitations

The services provided under this contract as described in this report include professional opinions and judgments based on data collected. These services have been provided according to generally accepted environmental protocol. The opinions and conclusions contained in this report are typically based on information obtained from:

1. Observations and measurements made by our field staff.
2. Contacts and discussions with regulatory agencies and others.
3. Review of available hydrogeologic data.

2.0 DESCRIPTION OF FIELD ACTIVITIES

Drilling and sampling of investigative boring IB-5 and drilling and installation of well MW-3 were conducted on August 11, 2000. Top of casing elevations were surveyed for the three site wells on August 14, 2000. Monitoring wells MW-1, MW-2, and MW-3 were purged and sampled on August 18, 2000.

2.1 Prefield Activities

Prior to initiating drilling and well installation activities, a soil boring permit was obtained from the Alameda County Zone 7 Water Agency. A copy of this permit is included in Appendix A. In addition, Gribi Associates notified Ms. Eva Chu of Alameda County Department of Environmental Health more than three days prior to drilling.

Prior to initiating drilling and well installation activities, proposed soil boring and well locations were marked with white paint, and Underground Services Alert (USA) was notified. Also, ForeSite Utility Surveys, a private underground utility locator, cleared proposed soil boring locations. Prior to initiating drilling activities, a Site Safety Plan was prepared, and a tailgate safety meeting was conducted with all site workers.

2.2 Location of Soil Borings and Monitor Wells

Locations of IB-5 and MW-3, along with previous borings and wells, are shown on Figure 2. Investigative boring IB-5 was sited to assess hydrocarbon impacts west from the former USTs. Well

MW-3 was sited further southwest from MW-1, both to allow for groundwater flow determination and to provide additional groundwater quality data in the expected downgradient groundwater flow direction.

2.3 Drilling and Sampling of Soil Boring

Boring IB-5 was drilled to a total depth of about 23 feet below surface grade by Gregg Drilling using Geoprobe™ hydraulically-driven soil coring equipment. This coring system allows for the retrieval of almost continuous soil core, contained in a clear plastic acetate tube nested inside a stainless steel core barrel. After the core barrel was brought to the surface and exposed, the soil core was examined, logged, and field screened for hydrocarbons using sight and smell by Mr. Jim Gribi, R.G. A boring log for IB-5 is included as Appendix B.

Soil samples were collected from IB-5 at about seven feet and 11 ft. in depth as follows: (1) The soil-filled clear acetate tube was exposed for visual examination; (2) The selected sampling interval was collected by cutting the sample and acetate plastic tubing to the desired length (typically about six inches); (3) The ends of the selected sample were quickly wrapped with foil, capped with plastic end caps, labeled and wrapped tightly with tape; and (4) The sealed soil sample was labeled and immediately placed in cold storage for transport to the analytical laboratory under formal chain-of-custody. All coring and sampling equipment was thoroughly cleaned and decontaminated between each sample collection by triple rinsing first with water, then with dilute tri-sodium phosphate solution, and finally with distilled water.

Upon completion, temporary well casing was placed in IB-5, and a grab groundwater sample was collected using a clean stainless steel bailer as follows: (1) Laboratory-supplied containers were completely filled directly from the bailer with a minimum of agitation; (2) After making sure that no air bubbles were present, each container was tightly sealed with a Teflon-lined septum; and (3) Each container was labeled and placed in cold storage for transport to the analytical laboratory under formal chain-of-custody. All sampling equipment was thoroughly cleaned and decontaminated between each sample collection by triple rinsing as described previously in this report.

2.4 Drilling and Sampling of Groundwater Monitoring Well

Well MW-3 was drilled to a total depth of about 20 feet below surface grade using hollow stem auger equipment. Soils from each well boring were logged by Mr. Jim Gribi, R.G. using sight and smell. A soil boring log for MW-3 is included in Appendix B. Soil cuttings from the well boring were placed in sealed DOT-approved 55-gallon drums pending laboratory analytical results.

Soil samples were collected from MW-3 at 10.5 feet and 16.5 feet in depth. Undisturbed soils were sampled in advance of the auger as follows: (1) A two-inch inside diameter California-style split spoon sampler was driven into undisturbed soil ahead of the drill bit; (2) The sampler was raised quickly to the surface and the brass liners exposed; (3) The brass liner containing the most undisturbed soil was quickly sealed with aluminum foil and plastic end caps, labeled, and wrapped tightly with tape; and (4) The sealed soil sample was placed immediately in a cooler with crushed ice for transport to the analytical laboratory under formal chain-of-custody. All sampling equipment was thoroughly cleaned and decontaminated between each sample collection by triple rinsing as described previously in this report.

2.5 Installation of Groundwater Monitoring Wells

Well MW-3 was constructed using two-inch diameter Schedule 40 threaded PVC casing according to the following specifications: (1) 0.020-inch slotted well casing was placed from approximately 20 feet to five feet in depth; (2) Filter sand was placed around the casing to a depth of approximately four feet below grade; (3) A one foot bentonite seal was placed above the filter sand to approximately three feet below grade; and (4) The remaining annulus was grouted using a cement/sand slurry (bentonite less than 5 percent) to approximate grade. The top of the well was enclosed in a traffic-rated locking box set in concrete slightly above grade. Well construction details are included with the well boring log in Appendix B.

On Thursday, September 14, 2000, wellhead top of casing mean sea level elevations were surveyed for the three wells, MW-1, MW-2, and MW-3, by Mr. Ahmad Moghaddas, P.E. A copy of the surveyor's report is contained in Appendix C.

2.6 Well Development and Sampling

On August 18, 2000, newly-installed well MW-3, along with existing wells MW-1 and MW-2, were purged and sampled using a 12-volt purge pump. Well purging consisted of purging the well of at least three well volumes before sampling. During well purging,, groundwater was periodically monitored for presence of free-floating product and odor, pH, specific conductance, temperature and visible clarity. After these parameters had stabilized, groundwater was sampled in the following manner: (1) Three 40-ml glass VOA.vials and two 0.5 liter amber bottles were completely filled with a minimum of agitation; (2) When no air bubbles were visable, each container was tightly sealed with a Teflon-lined septum; and (3) Each container was labeled and placed in cold storage for transport to the analytical laboratory under formal chain-of-custody. Groundwater sampling data for the three wells are contained in Appendix D. All purged groundwater was stored onsite in a sealed 55-gallon drum. All sampling equipment was thoroughly cleaned and decontaminated between each sample collection by triple rinsing as described previously in this report.

2.7 Laboratory Analysis of Soil and Groundwater Samples

Four soil samples and four water samples were analyzed for the following parameters with standard method turn around time on results.

USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G)
USEPA 8020/602 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
USEPA 8020/602 Methyl-t-butyl Ether (MTBE)
USEPA 8015M Total Petroleum Hydrocarbons as Diesel/Motor Oil (TPH-D/MO)

In addition, MTBE results for groundwater samples from IB-5, MW-1, and MW-3 were confirmed using USEPA Method 8260B. All analyses were conducted by Acculabs, Inc., a California-certified analytical laboratory.

3.0 RESULTS OF INVESTIGATION

3.1 General Subsurface Conditions

Soils encountered in the investigative and well borings were generally similar, consisting primarily of soft to firm dark grey green to grey brown silty clays and clayey silts down to 20 feet in depth. The materials became stiffer and the color changed to dark grey brown with increased depth. No hydrocarbon odors were noted in soils from either IB-5 or MW-3.

3.2 Hydrologic Conditions

Groundwater was not encountered during drilling of either boring, but rose in the borings over time. No hydrocarbon odors were noted in groundwater during purging and sampling of the boring and wells.

Groundwater was measured in the boring and wells at a depth of about 5.5 feet below surface grade. Groundwater flow gradient, as depicted on Figure 3, is almost flat, with a slight gradient of about 0.004 to the south. Note that the groundwater MTBE results, which are depicted on Figure, 4, seem to indicate a groundwater flow gradient to the southwest.

3.3 Results of Laboratory Analyses

Soil and groundwater analytical results are summarized in Tables 1 and 2. Groundwater MTBE results are shown on Figure 3. Laboratory data reports (including laboratory chromatograms) and chain-of-custody records for soil and groundwater analyses are contained in Appendix E.

Table 1
SUMMARY OF SOIL AND GRAB GROUNDWATER ANALYTICAL RESULTS
Dublin Toyota UST Site

Sample ID	*Sample Depth*	*Concentration (ppm)*							
		TPH-D	*TPH-MO*	*TPH-G*	*B*	*T*	*E*	*X*	*MTBE*
	Soil Samples								
IB-5.1	7.0 ft.	<1.0	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
IB-5.2	11.0 ft.	<1.0	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
MW-3.2	10.5 ft.	<1.0	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
MW-3.3	16.5ft.	<1.0	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
	Grab Groundwater Samples								
IB-5-W		--	--	**0.590**	<0.050	<0.0.50	<0.0.50	**0.001**	**4.20**[1]

TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl-t-Butyl Ether
-- = Not analyzed for this analyte
1 = MTBE result was confirmed using USEPA Method 8260B.

Table 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Dublin Toyota UST Site

Sample ID	*Sample Date*	*GW Depth/ Elevation*	*Concentration (ppm)*							
			TPH-D	*TPH-MO*	*TPH-G*	*B*	*T*	*E*	*X*	*MTBE*
MW-1	12/15/99	5.74	<0.050	**0.110**	**46**	<0.10	<0.10	<0.10	<0.10	**62**
<328.89>	04/06/99	5.09	<0.050	<0.100	**45**	<0.050	<0.050	<0.050	<0.050	**86**[1]
	07/14/99	6.18	<0.050	<0.100	**2.8**	<0.10	<0.10	<0.10	<0.10	**65**[1]
	10/14/99	6.86	<0.050	<0.100	**11**	<0.017	<0.017	<0.017	<0.017	**98**[1]
	08/18/00	321.91	<0.050	<0.100	**36**	<0.050	<0.050	<0.050	<0.050	**66**[1]
MW-2	12/15/99	4.30	<0.050	**0.570**	<0.050	<0.00050	**0.00090**	<0.00050	**0.00150**	<0.0050
<327.64>	04/06/99	3.42	<0.050	<0.100	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050
	7/14/99	4.76	<0.050	<0.100	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050
	10/14/99	5.48	<0.050	<0.100	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050
	08/18/00	321.92	<0.050	<0.100	<0.050	<0.00050	<0.00050	<0.00050	**0.0011**	**0.016**
MW-3	08/18/00	321.77	<0.050	<0.100	**0.210**	<0.00050	**0.00058**	<0.00050	**0.00059**	**0.570**[1]
<327.44>										

GW Depth/Elevation = Groundwater depth below top of casing (prior to August 2000), or groundwater mean sea level elevation.
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl-t-Butyl Ether
<0.050 = Not detected above the expressed value.
<328.89> = Surveyed top of casing mean sea level elevation.
1 = MTBE result was confirmed using USEPA Method 8260B.

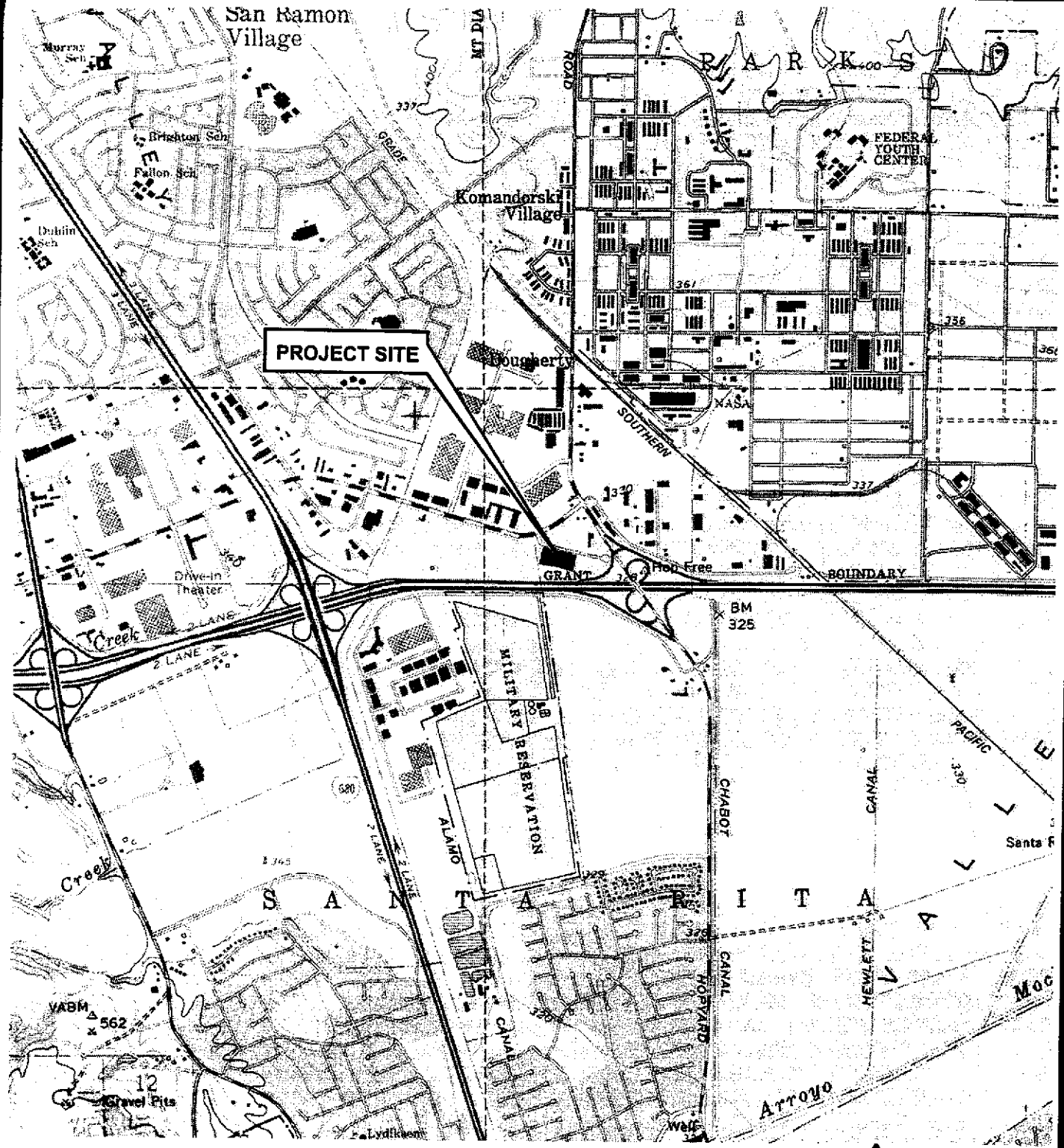
4.0 CONCLUSIONS

As with soil analytical results from previous borings and wells, no significant hydrocarbon constituents were detected in soil samples from IB-5 or MW-3. Thus, it appears that the UST removal, soil overexcavation, and groundwater pumping activities conducted in 1998 during UST removal activities were successful in mitigating all significantly hydrocarbon-impacted soils at the site.

Although elevated levels of MTBE continue to be detected in groundwater samples from well MW-1, MTBE concentrations in groundwater samples from MW-3 and IB-5 are significantly lower. These data, together with the relatively flat groundwater flow gradient beneath the site, seem to suggest a localized, concentrated groundwater MTBE plume that has not migrated significantly.

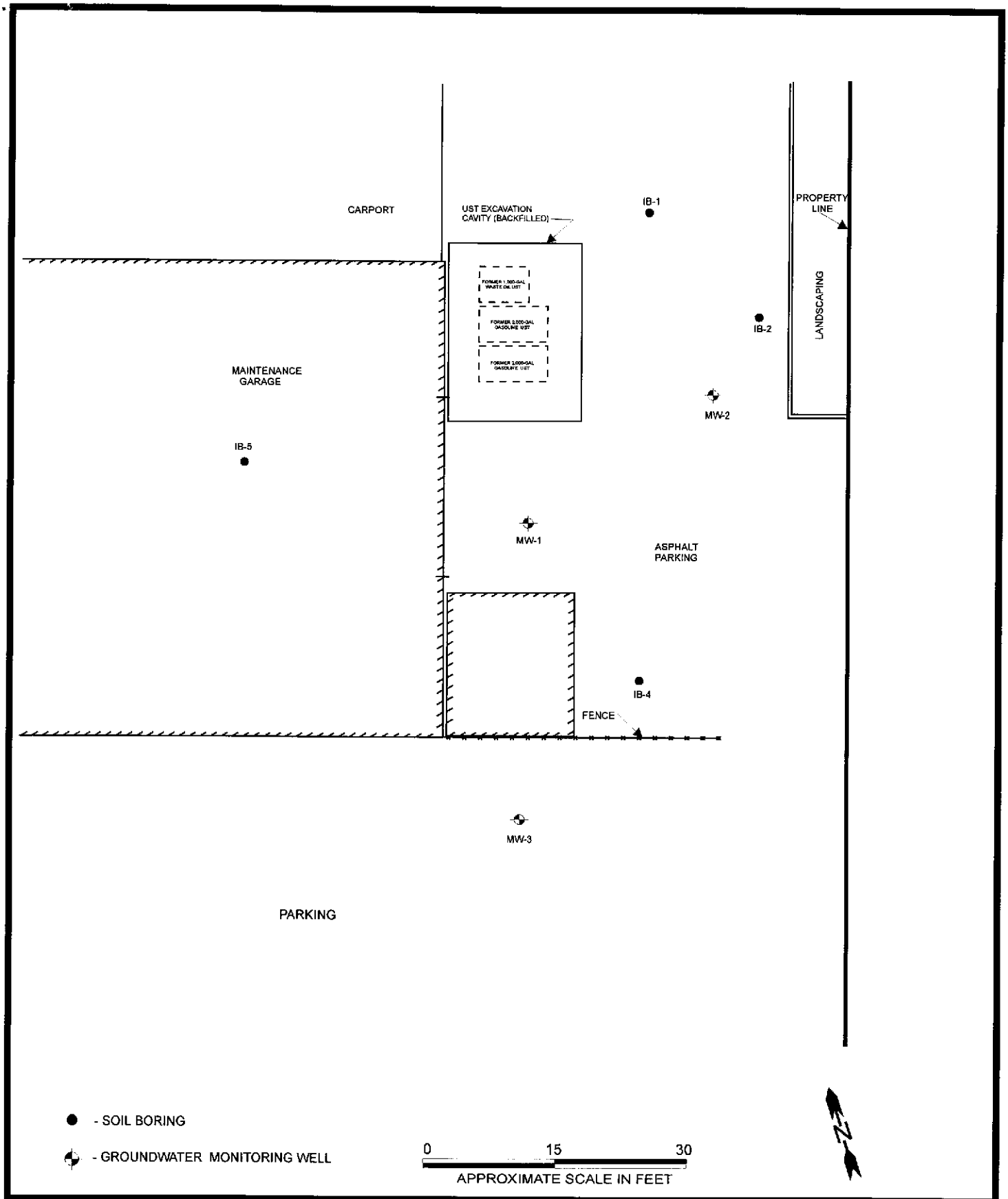
5.0 RECOMMENDATIONS

Based on results of this investigation, we recommend conducting quarterly groundwater monitoring of the three project site wells for three more quarters to assess long-term groundwater conditions beneath the site.

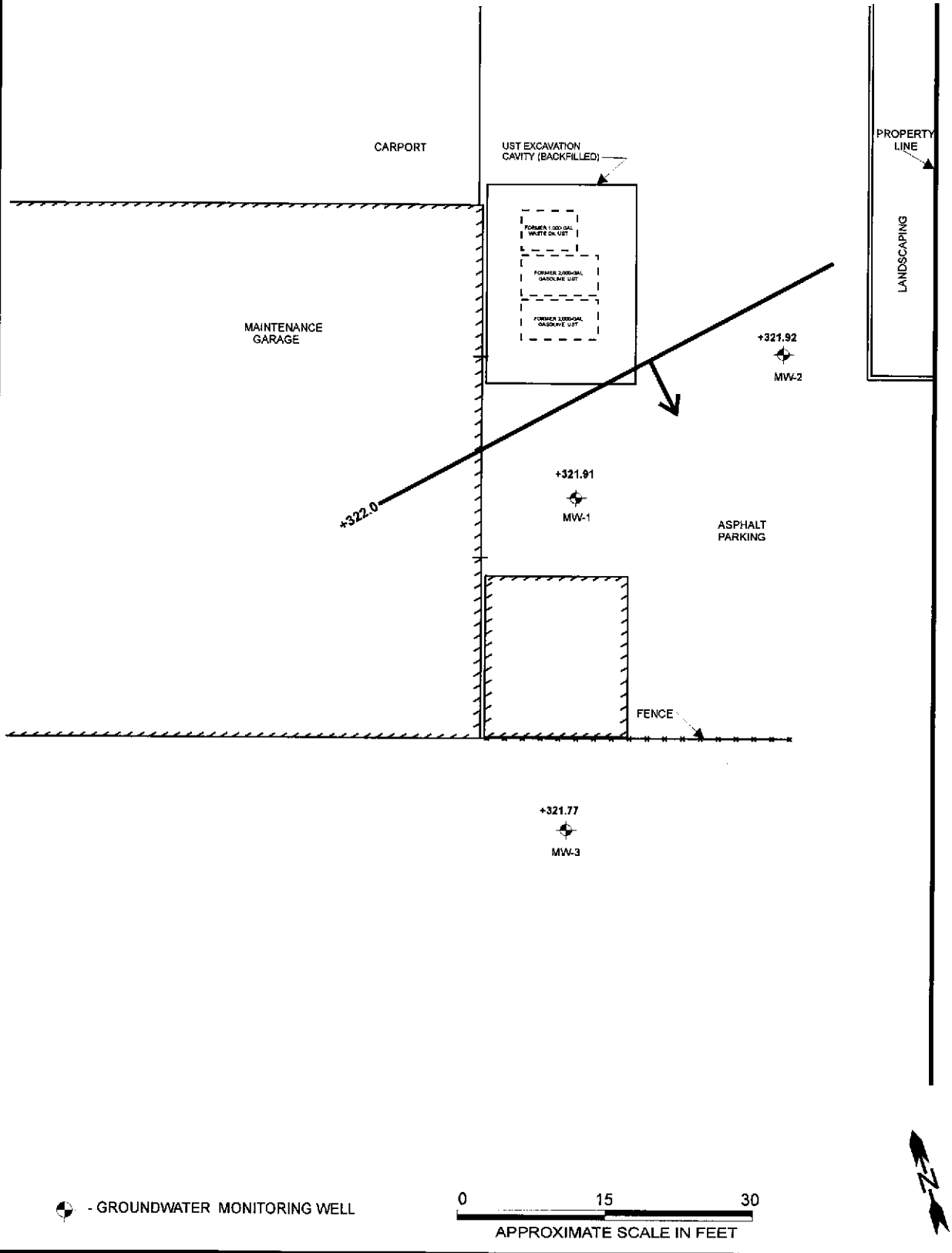


TOPOGRAPHY FROM USGS DUBLIN, CALIFORNIA
7.5-MINUTE QUADRANGLE MAPS, (TOPO! 1997).

DESIGNED BY:	CHECKED BY:	**SITE VICINITY MAP**	DATE: 10/01/98	FIGURE: 1
DRAWN BY: JG	SCALE: 1:24,000	DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA	**GRIBI Associates**	
PROJECT NO: 147-01-01				



DESIGNED BY:	CHECKED BY:	**SITE PLAN**	DATE: 09/14/00	FIGURE: 2
DRAWN BY: JG	SCALE:	DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA	GRIBI Associates	
PROJECT NO: 147-01-01				

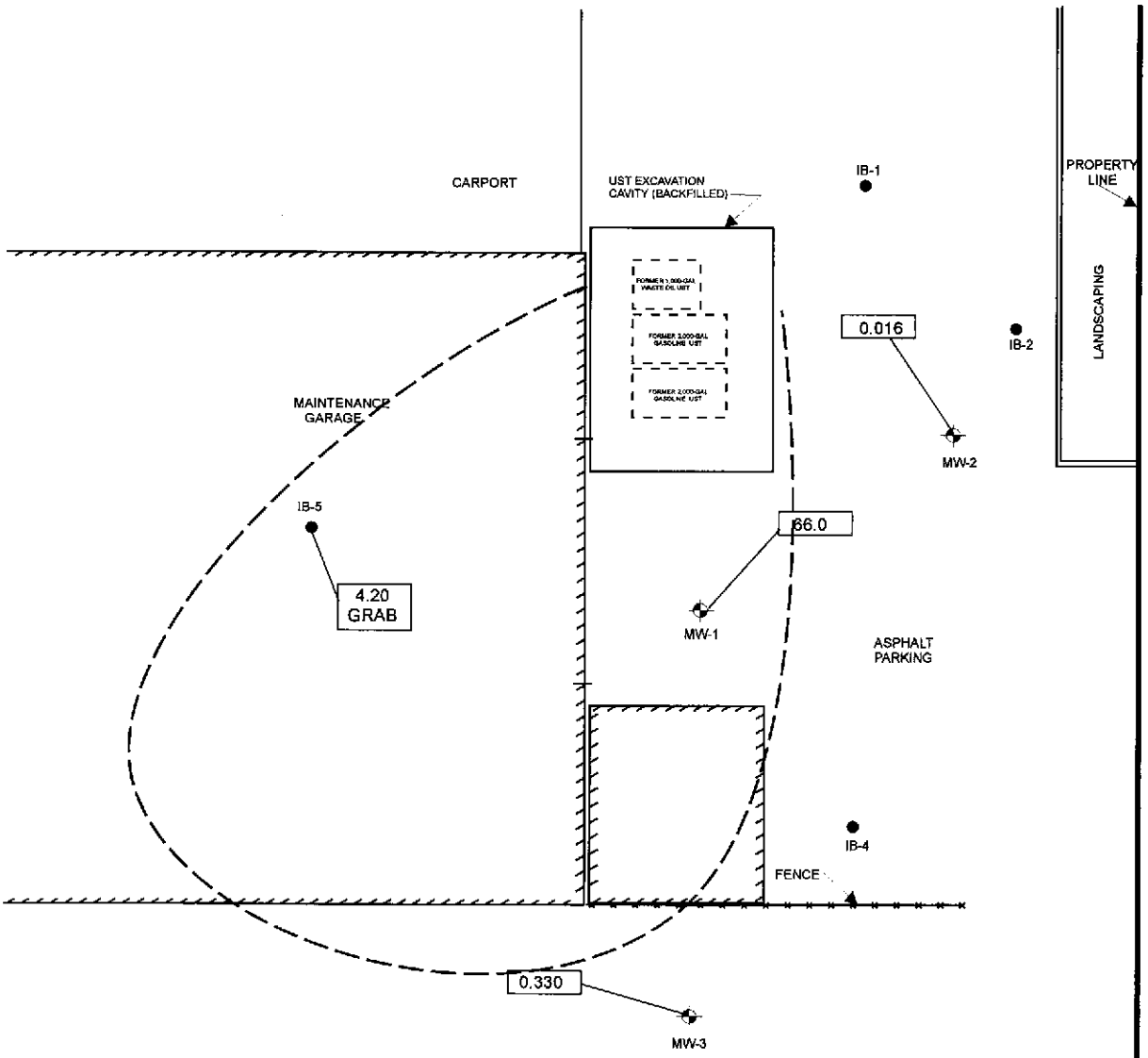


- GROUNDWATER MONITORING WELL

0 15 30

APPROXIMATE SCALE IN FEET

DESIGNED BY:	CHECKED BY:	**GROUNDWATER GRADIENT, 08-18-00** DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA	DATE: 09/14/00	FIGURE: 3
DRAWN BY: JG	SCALE:		GRIBI Associates	
PROJECT NO: 147-01-01				



● - SOIL BORING

⊕ - GROUNDWATER MONITORING WELL

MTBE CONCENTRATIONS IN MG/L (PPM).

0 20 40

APPROXIMATE SCALE IN FEET

N

DESIGNED BY:	CHECKED BY:	**GROUNDWATER MTBE RESULTS**	DATE: 09/14/00	FIGURE: 4
DRAWN BY: JG	SCALE:	DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA	**GRIBI Associates**	
PROJECT NO: 147-01-01				

APPENDIX A

SOIL BORING AND WELL INSTALLATION PERMIT

Zone 7
Alameda County Flood Control
&
Water Conservation District

5997 Parkside Drive ■ Pleasanton, California 94588-5127 ■ Phone (925) 484-2600 ■ Fax (925) 462-3914

Telefax Transmittal

Date: 08/08/00

Deliver To: Jim Gribi

Name of Firm: Gribi Associates

Fax Number: (707) 748-7763

From: Wyman Hong

Number of Pages: 2

(Including Cover Page)

For Voice Contact Call: (925) 484-2600, Extension: 235

For Return Fax: (925) 462-3914

Remarks: Drilling permit 20139 for a monitoring construction project at 6450 Dublin Court in Dublin for Dublin Toyota.

P:\WRE\Wyman\Fax Transmittal Form.wpd

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE, PLEASANTON, CALIFORNIA 94588-5127 PHONE (510) 484-2600 X235
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Dublin Toyota
6450 Dublin Court
Dublin CA 94568

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

CLIENT
Name Dublin Toyota
Address 6450 Dublin Court Phone 925/829-1200
City Dublin CA Zip 94568

APPLICANT
Name Jim Gribi
Gribi Associates Fax 707/748-7763
Address 1350 Hayes St. Ste C-4 Phone 707/748-7243
City Benicia CA Zip 94510

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 _____	☐

DRILLING METHOD

Mud Rotary	☐	Air Rotary	☐	Auger (1 well)	☒
Cable	☐	Other	☐	Geoprobe (1 boring)	☒

DRILLER'S LICENSE NO. 485-615 (Gregg)

WELL PROJECTS

Drill Hole Diameter	8 in.	Maximum Depth	20 ft.
Casing Diameter	2 in.		
Surface Seal Depth	5 ft.	Number	1

GEOTECHNICAL PROJECTS

Number of Borings	1	Maximum Depth	15 ft.
Hole Diameter	2½ in.		

ESTIMATED STARTING DATE 8-11-00
ESTIMATED COMPLETION DATE 8-11-00

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

APPLICANT'S SIGNATURE _____ Date 8-7-00

FOR OFFICE USE

PERMIT NUMBER 20139
WELL NUMBER 3S/1E 6F31
APN 941 1400 007 00

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 thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

(C.) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(D.) GEOTECHNICAL. Backfill bore hole 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

Approved Wyman Hong Date 8/8/00
Wyman Hong

101305

APPENDIX B

BORING LOGS

LOG OF WELL BORING

SHEET _1_ OF _1_

BORING NUMBER : **IB-5**

BORING LOCATION: Approx. 30 ft. Inside shop

GRIBI Associates

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: DUBLIN TOYOTA UST SITE

PROJECT NUMBER: 147-01-01

START DATE: 8-11-00

COMPLETION DATE: 8-11-00

DRILLING METHOD: GEOPROBE

BOREHOLE DIAMETER: 2-1/2 INCHES

BORING TOTAL DEPTH: 22.5 FEET

COMPLETION METHOD: GROUTED

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL	PIEZOMETER/ WELL INSTALLATION
							4 inch concrete slab	
						SM	0 - 4 ft. Dark brown unconsolidated SILT, gravelly, moist, no hydrocarbon odor or staining.	
5						CL	4 - 8 ft. Dark grey CLAY, moist, no hydrocarbon odor or staining.	
	IB-5.1	7.0 ft.						
10						CL	8 - 13 ft. Dark grey CLAY, with 1-2" interbeds clayey sands, moist, no hydrocarbon odor or staining.	
	IB-5.2	11.0 ft.						
15							13 - 22.5 ft. Dark brown, dense CLAY with minor silt, moist, no hydrocarbon odor or staining.	
						CL		
20							Groundwater not encountered during boring, waited for hole to fill to about 6 ft.	
							TOTAL DEPTH: 22.5 ft.	

LOG OF WELL BORING

SHEET _1_ OF _1_

BORING NUMBER : **MW-3**

BORING LOCATION: PARKING LOT, SW.

GRIBI Associates

BORING TYPE: MONITORING WELL

PROJECT NAME: DUBLIN TOYOTA UST SITE

PROJECT NUMBER: 147-01-01

START DATE: 8-11-00

COMPLETION DATE: 8-11-00

DRILLING METHOD: HOLLOW STEM AUGER

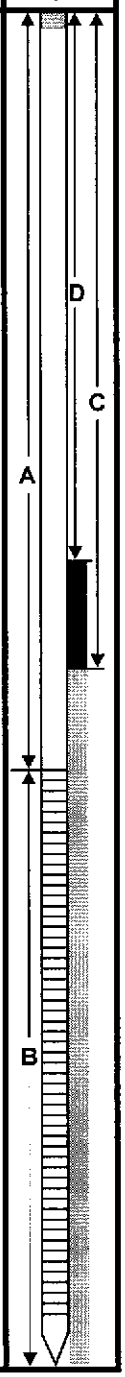
BOREHOLE DIAMETER: 6 INCHES

BORING TOTAL DEPTH: 20.5 FEET

COMPLETION METHOD: WELL

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL
							0 - 0.5 ft. Asphalt and gravel.
						CL	.0.5 - 5 ft. Damp, grey CLAY with minor silt. No hydrocarbon order or staining.
5							5 - 10 ft. Grey CLAY with light grey, thin bedded sands, moist, no hydrocarbon odor or staining.
						CL	
10	MW-3.2	10.5 FT					
							10 - 15 ft. Dense grey CLAY with approximately 5% sandy clay interbeds, moist, no hydrocarbon odor or staining.
15	MW-3.3	16.5 FT.				CL	
							15 - 20.5 ft. Brownish grey CLAY, little or no silt or sand, moist, no hydrocarbon odor or staining
							Groundwater not encountered during drilling.
20							TOTAL DEPTH 20.5 ft.

PIEZOMETER\ WELL INSTALLATION



WELL SPECIFICATIONS

A - WELL SCREEN DEPTH:	5.03 FT.	CASING TYPE:	SCH 40 PVC
B - WELL SCREEN LENGTH:	15.0 FT.	CASING SIZE:	2.0-INCH
C - DEPTH TO TOP OF SAND	4.0 FT	SLOT SIZE:	0.020-INCH
D - DEPTH BENTONITE SEAL	3.0 FT	NO. 3 FILTER SAND	

APPENDIX C

SURVEYOR'S REPORT

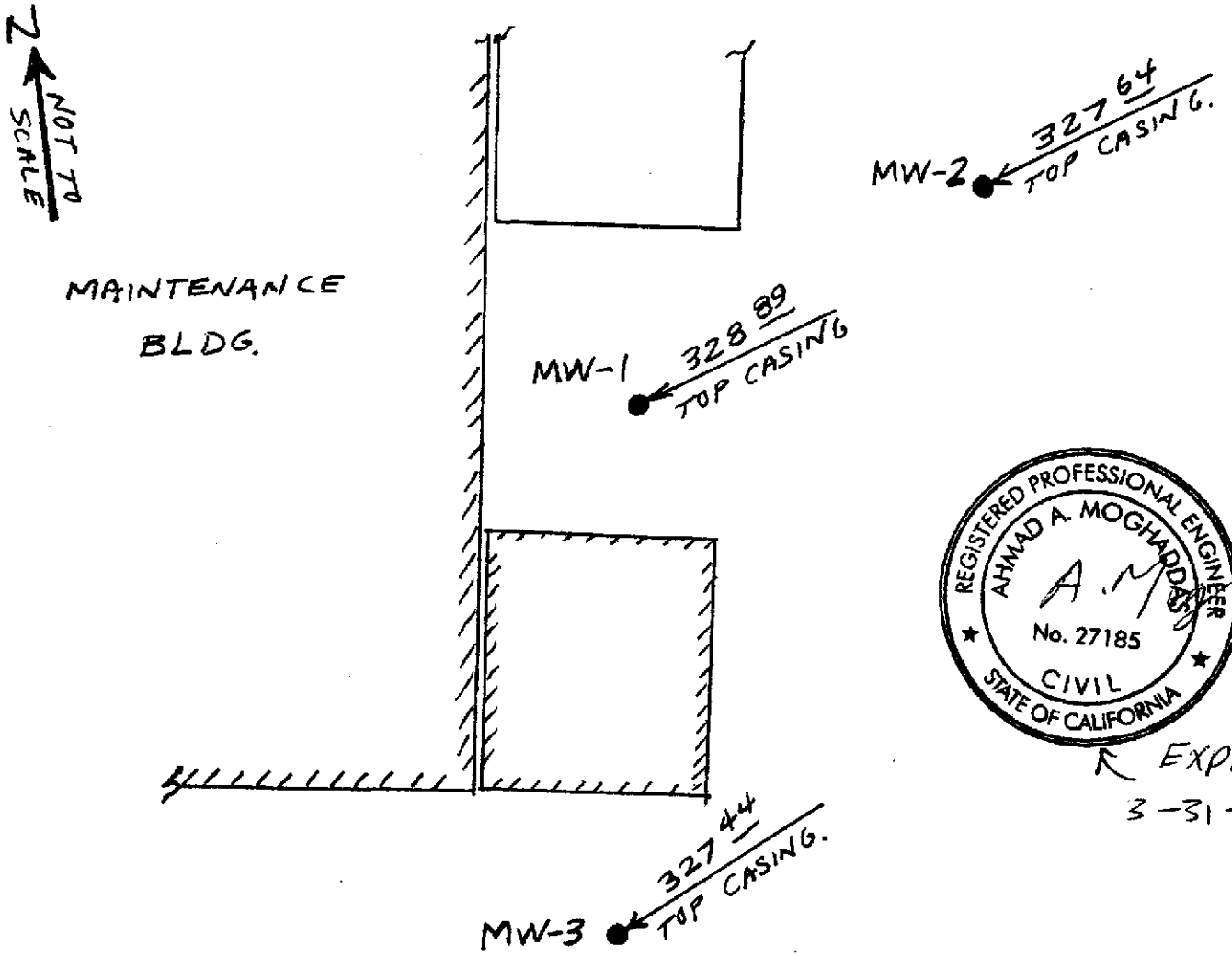
AHMAD MOGHADDAS
REGISTERED CIVIL ENGINEER
1631 BERKELEY WAY
BERKELEY, CA 94703
843-6580

9/14/00

6450 DUBLIN COURT, DUBLIN

3 MONITORING WELLS

DUBLIN TOYOTA UST SITE



REGISTERED PROFESSIONAL ENGINEER
AHMAD A. MOGHADDAS
No. 27185
CIVIL
STATE OF CALIFORNIA

EXPIRES
3-31-2001

BENCHMARK

ELEVATIONS ARE IN MEAN SEA LEVEL. BENCHMARK "DOUGH-DUB" OF ALAMEDA COUNTY IS A CHISELLED "□" ON TOP CENTER OF THE CONC. CURB AT THE N'LY CURB RETURN AT THE NW CORNER OF THE INTERSECTION OF DOUGHERTY RD. & DUBLIN BLVD. AT ELEVATION 330.599 (REF LL 3396-13).

APPENDIX D

GROUNDWATER SAMPLING DATA SHEETS

GROUNDWATER SAMPLING RECORD	GRIBI Associates
Well No. MW-1	Well Loc.
Project Name DUBLIN TOYOTA	Project No.
Date 8-18-00 Time	TOC Elevation 328.89 GW Elevation
Depth to Water 6.98'	Well Depth 19.96 Well Diameter 2
Purge Water, 2": Wtr Column X 0.163 X 3 = 6.39	Purge Water, 4": Wtr Column X 0.653 X 3 =
Purge/Sample Method	Lab Analyses
Weather Conditions	Laboratory

Time	Volume Purged	Temp.	Cond.	pH	Visual
	1	69.0	.89	5.99	MILKY GREY - ODOR
	2	68.0	.85	5.57	± CLEAR NO ODOR SLIGHT
	3	68.6	.83	5.96	GREY
	4	67.9	.84	5.96	
	5	67.9	.85	5.10	
	6.5	67.2	.85	5.00	

Remarks

GROUNDWATER SAMPLING RECORD	GRIBI Associates
Well No. MW-2	Well Loc.
Project Name DUBLIN TOYOTA.	Project No.
Date 8-18-00. Time	TOC Elevation 327.64 GW Elevation
Depth to Water 5.72	Well Depth 19.8 Well Diameter
Purge Water, 2": Wtr Column X 0.163 X 3 = 6.8	Purge Water, 4": Wtr Column X 0.653 X 3 =
Purge/Sample Method	Lab Analyses
Weather Conditions	Laboratory

Time	Volume Purged	Temp.	Cond.	pH	Visual
	1.5	67.9	.54	5.04	grey, sulphurous
	2	68.1	.57	5.09	± clear "
	3				
	4	68.4	.59	5.10	grey & cloudy
	5	68.2	.70	5.15	
	6	68.2	.86	5.45↑	

Remarks Sample interval 8 Liters/L purge grey & sulphurous

GROUNDWATER SAMPLING RECORD	GRIBI Associates
Well No. MW-3	Well Loc.
Project Name DUBLIN TOYOTA.	Project No.
Date 8-18-00 Time	TOC Elevation 327.44 GW Elevation
Depth to Water 5.67	Well Depth ≈20.2 Well Diameter 2"
Purge Water, 2": Wtr Column X 0.163 X 3 = 7.1 GAL	Purge Water, 4": Wtr Column X 0.653 X 3 =
Purge/Sample Method	Lab Analyses
Weather Conditions	Laboratory

Time	Volume Purged	Temp.	Cond.	pH	Visual
	1	71.7	3.82	9.2	VERY cloudy, H2S odor
	2.5	76.3	4.16	9.36	" "
	4.0	78.1	4.21	9.74	" "
	5.75	78.0	4.34	9.87	" "
	6.75	77.5	4.46	10.14	" "
	7.3	78.2	4.88	12.02	" "

Remarks INITIAL sampling, bail, no sheen, H_2S mild odor, cloudy. purge w/ 1 hole pump.
dewatering 6.75 g purge

APPENDIX E

LABORATORY DATA REPORTS AND CHAIN OF CUSTODY RECORDS

ACCULABS, INC.

Sample Log 21645
August 24, 2000

Jim Gribi
Gribi Associates
1350 Hayes Street, #C-14
Benicia, CA 94510

Subject : 1 Water & 6 Soil Samples
Project Name : Dublin Toyota
Project Number : 147-01-02

Dear Mr. Gribi,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Acculabs - Davis is certified by the State of California (# 2330), the State of Arizona (AZ0583) and the State of Nevada. If you have any questions regarding procedures or results, please call me at 530-757-0920.

Sincerely,

Tom Kwoka

Tom Kwoka

1046 Olive Drive, Davis, California 95616
Telephone (530)757-0920 Fax (530)753-6091 www.acculabs.com

ACCULABS, INC.

Sample Log 21645

MTBE (Methyl-t-butyl ether) By EPA Method 8020/602

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Received : 08/11/00
Matrix : Soil

SAMPLE	Date Analyzed	(MRL) ug/kg	Measured Value ug/kg
IB-5.1	08/22/00	(.050)	<.050
IB-5.2	08/22/00	(.050)	<.050
MW-3.2	08/22/00	(.050)	<.050
MW-3.3	08/22/00	(.050)	<.050

Approved By:

Tom Kiyoka
Lab Director

ACCULABS, INC.

Sample Log 21645

MTBE (Methyl-t-butyl ether) By EPA Method 8020/602

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Received : 08/11/00
Matrix : Water

SAMPLE	Date Analyzed	(MRL) ug/L	Measured Value ug/L
IB-5W	08/17/00	(5.0)	1100

Approved By:

Tom Kwoka
Lab Director

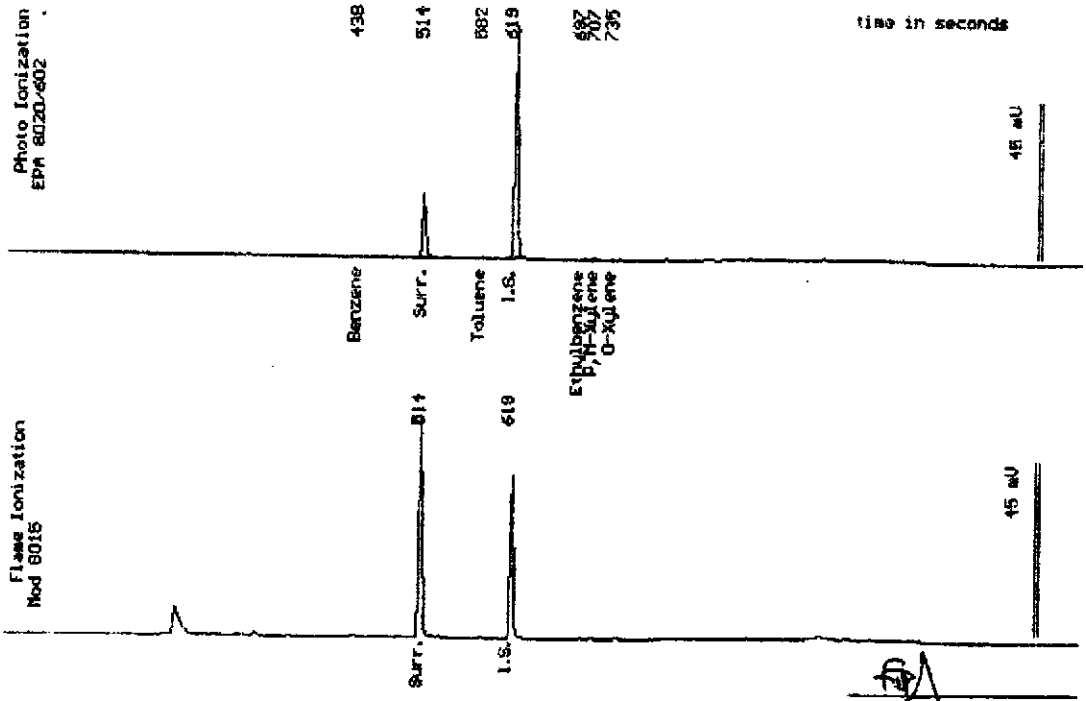
ACCULABS, INC.

Sample Log 21645
21645-01

Sample: IB-5.1

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Dilution : 1:1 Run Log : 2194N
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(1.0)	<1.0
Surrogate Recovery		101 %



Date Analyzed: 08-22-00
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

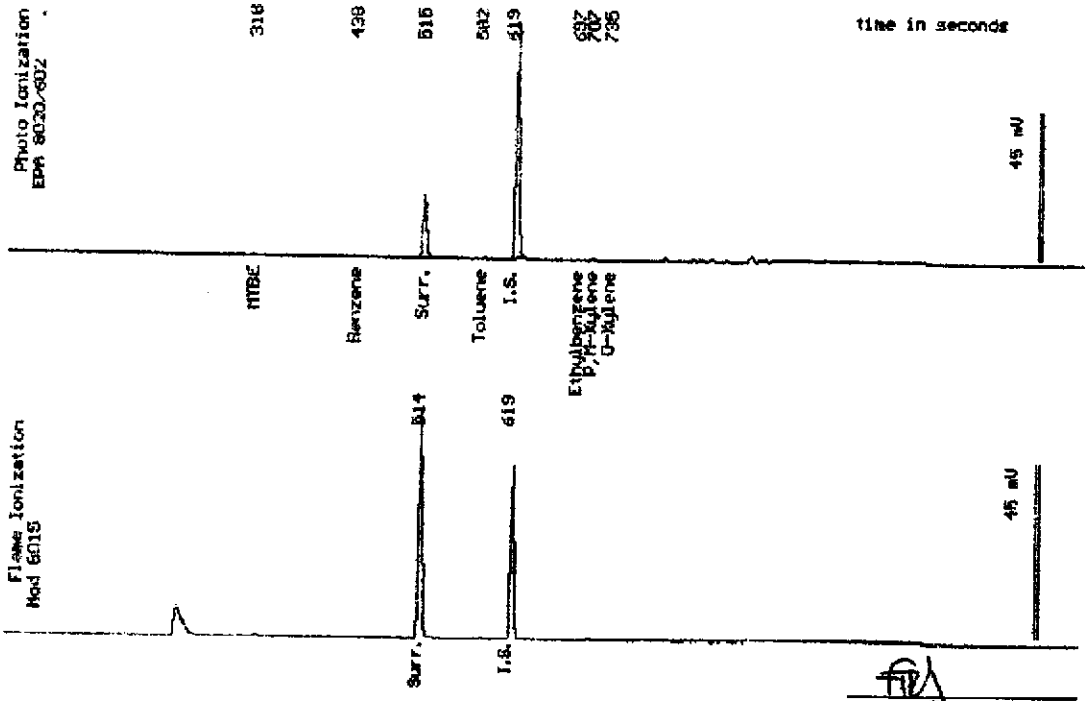
ACCULABS, INC.

Sample Log 21645
21645-02

Sample: IB-5.2

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Dilution : 1:1 Run Log : 2194N
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(1.0)	<1.0
Surrogate Recovery		103 %



Date Analyzed: 08-22-00
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Rabolsky
Senior Chemist

ACCULABS, INC.

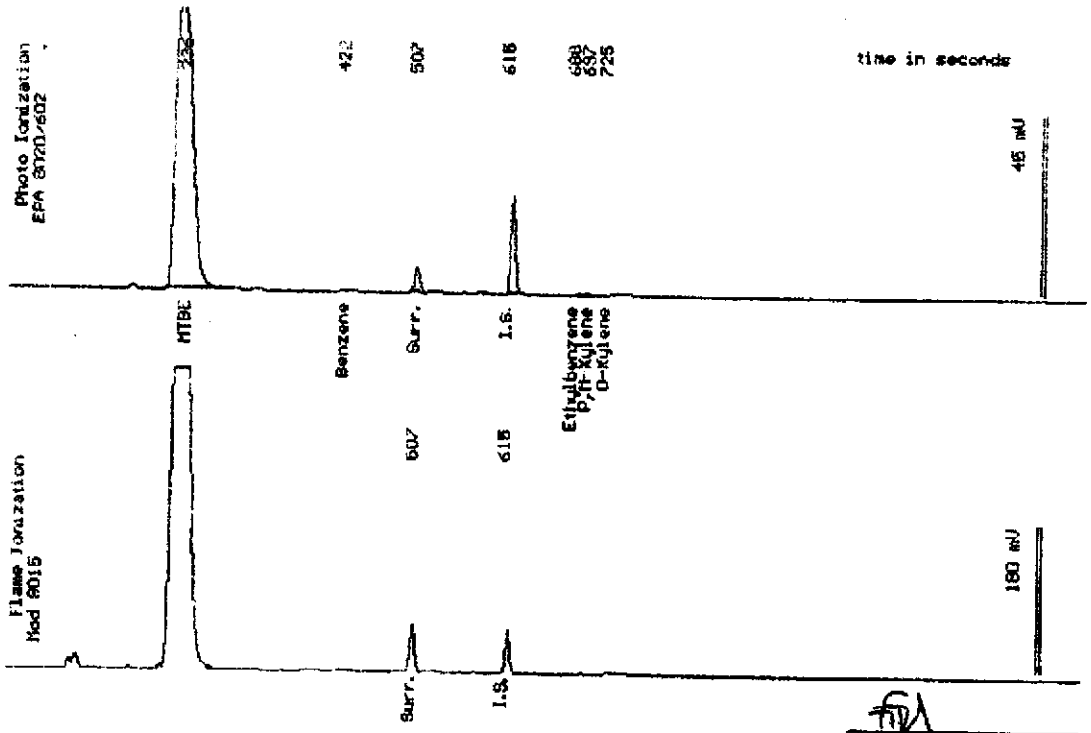
Sample Log 21645

21645-03

Sample: **IB-5W**

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Dilution : 1:1 Run Log : 4194M
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	1.0
TPH as Gasoline	(50)	590
Surrogate Recovery		87 %



Date Analyzed: 08-17-00
Column : 0.53mm ID X 60m Restek Rtx-1701

Stewart Dodolsky
Senior Chemist

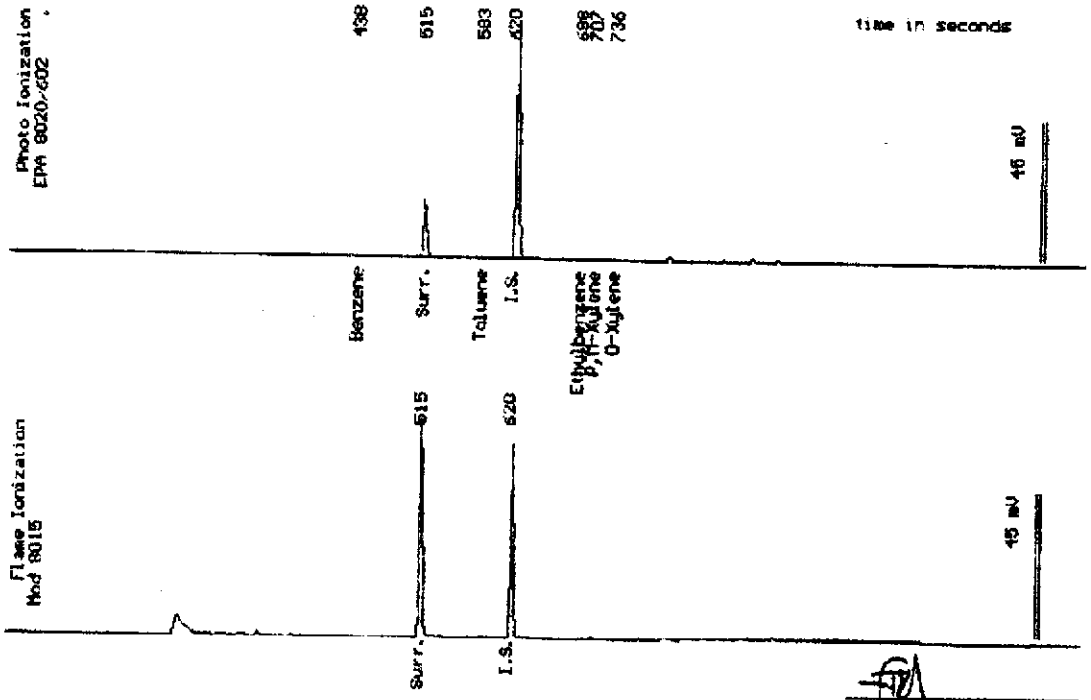
ACCULABS, INC.

Sample Log 21645
21645-05

Sample: MW-3.2

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Dilution : 1:1 Run Log : 2194N
Matrix : Soil

Parameter	(MRL) ug/kg	Measured Value ug/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(1.0)	<1.0
Surrogate Recovery		104 %



Date Analyzed: 08-22-00
Column : 0.53mm X 60m Restek Rtx-1301

Steven Bodolsky
Senior Chemist

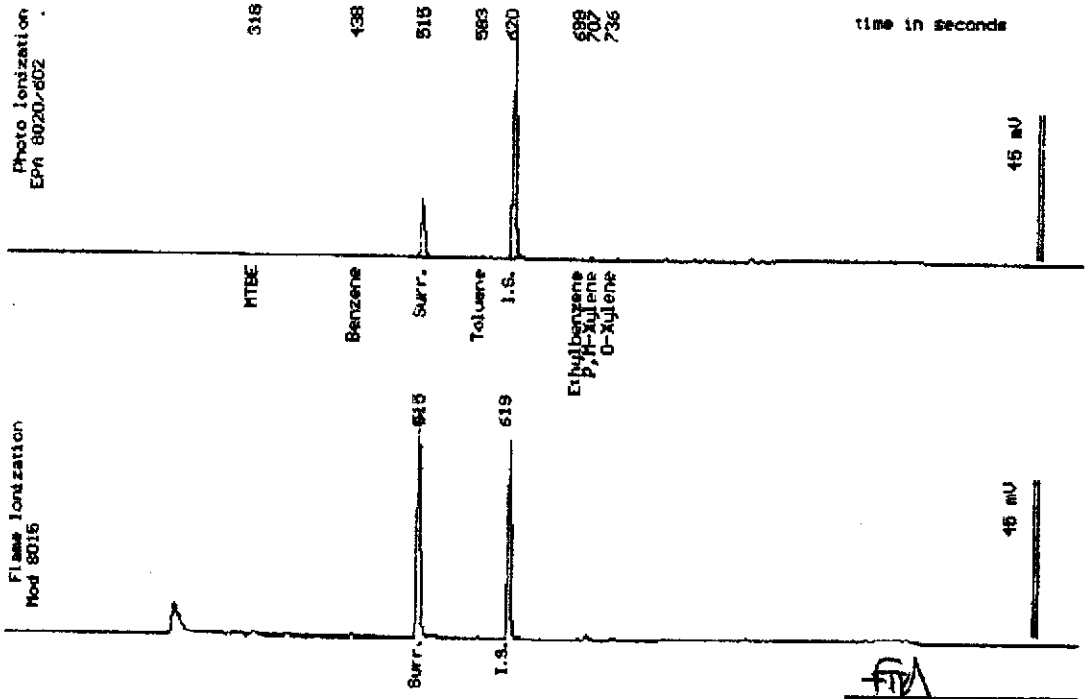
ACCULABS, INC.

Sample Log 21645
21645-06

Sample: MW-3.3

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Dilution : 1:1 Run Log : 2194N
Matrix : Soil

Parameter	(MRL) ug/kg	Measured Value ug/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(1.0)	<1.0
Surrogate Recovery		103 %



Date Analyzed: 08-22-00
Column : 0.53mm X 60m Restek Rtx-1301

Steuart Podolsky
Senior Chemist

ACCULABS, INC.

August 23, 2000
Sample Log 21645

QC Report for EPA 8020 & Modified EPA 8015
Run Log : 2194L
From : Dublin Toyota (Proj. # 147-01-02)
Sample(s) Received : 08/11/00

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD *
Benzene	94	91	3
Ethylbenzene	95	91	4
TPH as Gasoline	94	94	0

* RPD = Relative Percent Difference

Parameter	Laboratory Control Sample % Recovery
Benzene	99
Ethylbenzene	96
Gasoline	103

Parameter	Method Blank
Benzene	<0.0050 mg/Kg
Toluene	<0.0050 mg/Kg
Ethylbenzene	<0.0050 mg/Kg
Total Xylenes	<0.0050 mg/Kg
TPH as Gasoline	<1.0 mg/Kg

Tom Kiesig
Lab Director

ACCULABS, INC.

August 23, 2000
Sample Log 21645

QC Report for EPA 602 & Modified EPA 8015
Run Log : 4194L
From : Dublin Toyota (Proj. # 147-01-02)
Sample(s) Received : 08/11/00

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD *

Spiked sample too contaminated for spike recovery. See LCS data.

* RPD = Relative Percent Difference

Parameter	Laboratory Control Sample % Recovery
Benzene	103
Ethylbenzene	107
Gasoline	99

Parameter	Method Blank
Benzene	<0.50 ug/L
Toluene	<0.50 ug/L
Ethylbenzene	<0.50 ug/L
Total Xylenes	<0.50 ug/L
TPH as Gasoline	<50 ug/L

Tom Kuoka
Lab Director

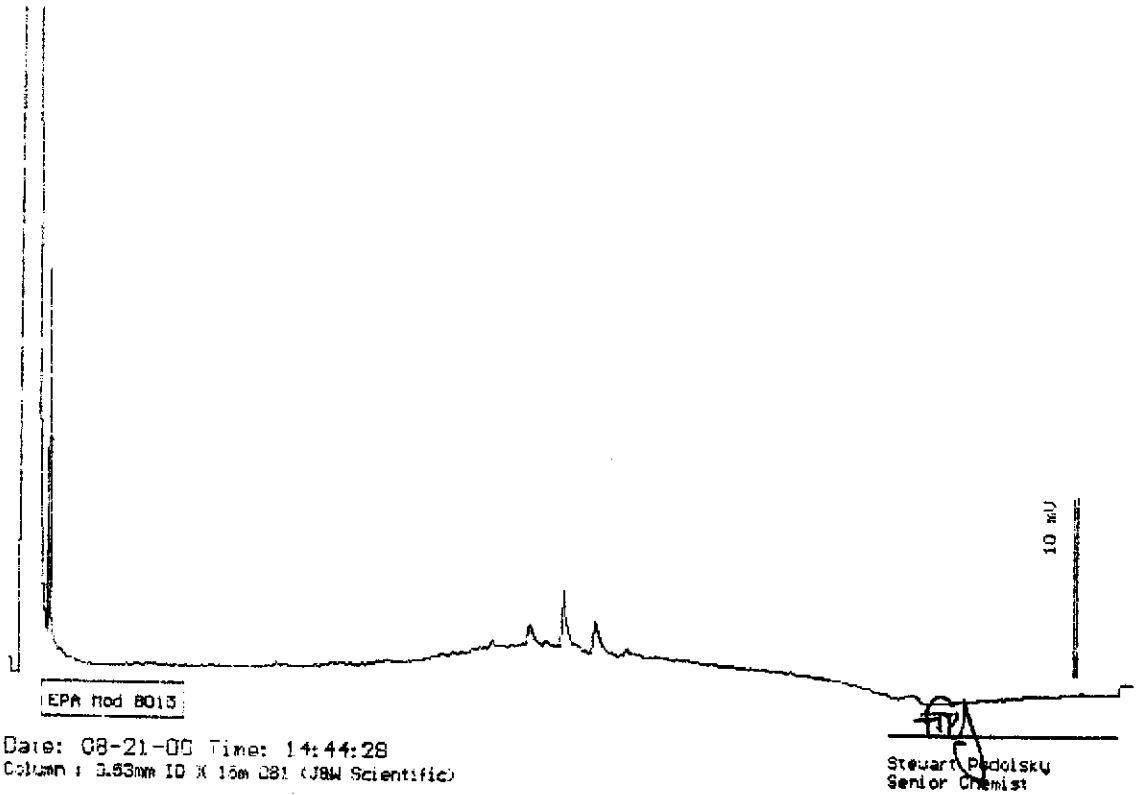
ACCULABS, INC.

Sample Log 21645
21645-01

Sample: **IB-5.1**

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Extracted: 08/21/00 QC Batch : DS000806
Dilution : 1:1 Run Log : 7474E
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0



Date: 08-21-00 Time: 14:44:28
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

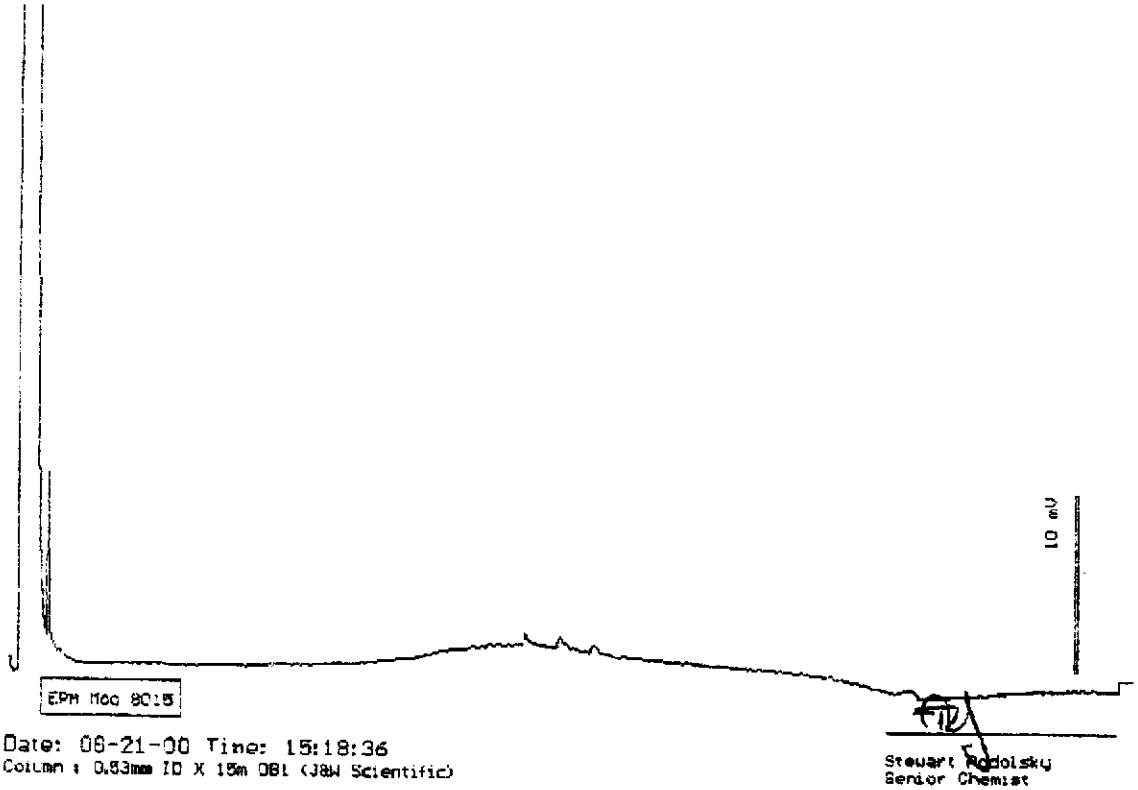
ACCULABS, INC.

Sample Log 21645
21645-02

Sample: **IB-5.2**

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Extracted: 08/21/00 QC Batch : DS000806
Dilution : 1:1 Run Log : 7474E
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0



Date: 08-21-00 Time: 15:18:36
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Radolsky
Senior Chemist

ACCULABS, INC.

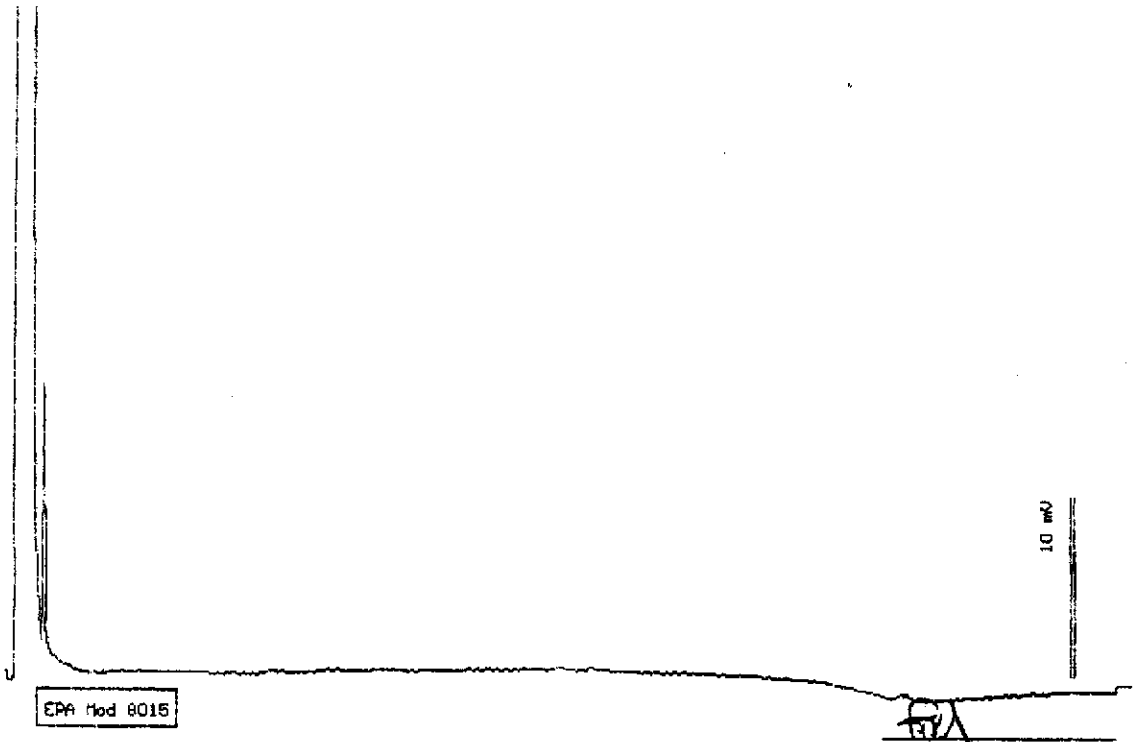
Sample Log 21645
21645-05

Sample: **MW-3.2**

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Extracted: 08/21/00
Dilution : 1:1
Matrix : Soil

QC Batch : DS000806
Run Log : 7474E

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0



Date: 08-21-00 Time: 15:52:38
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Pocolsky
Senior Chemist

ACCULABS, INC.

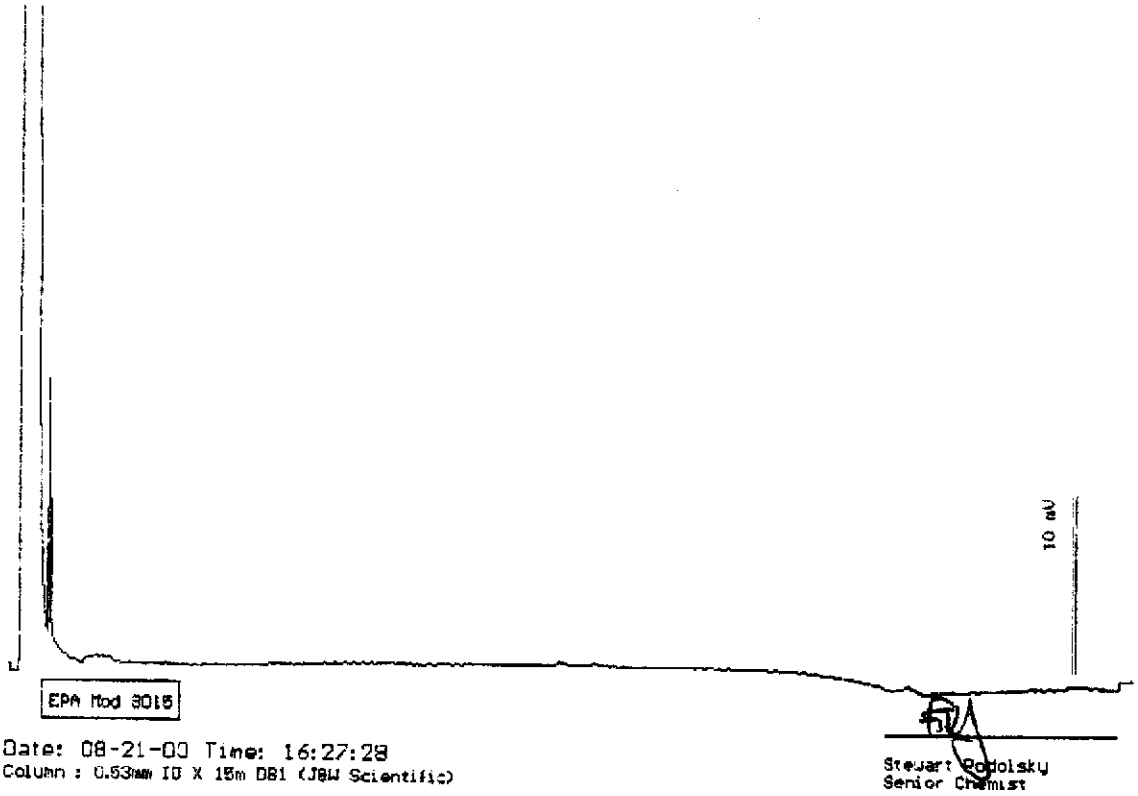
Sample Log 21645
21645-06

Sample: **MW-3.3**

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/11/00
Extracted: 08/21/00
Dilution : 1:1
Matrix : Soil

QC Batch : DS000806
Run Log : 7474E

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0



Date: 08-21-00 Time: 16:27:28
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

ACCULABS, INC.

Acculabs Inc. - Davis

TPH Diesel by 8015 Mod QC Report

Matrix: Soil	Date Extracted: 8/17/00
QC Batch: DS000806	Date Analyzed: 8/17/00
QC Limits Set: 7/27/00	

Parameter	Spike Conc mg/Kg	LCS % Rec	LCSD % Rec	RPD
TPH as Diesel	33	115	117	1.7

Control Chart Limits	
Lower	Upper
70	130

Method Blank	MDL mg/Kg	Measured value mg/Kg
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10

Tom Kwoka
Laboratory Director

C:\EXCEL\QC\Ds000806

ACCULABS, INC.

MTBE By EPA 8260B

Sample Log 21645
August 24, 2000

Sample Name : **IB-5W**

Project Name : Dublin Toyota
Project Number : 147-01-02
Sample Date : 08/11/00
Date Analyzed : 08/22/00

Date Received : 08/11/00
Dilution : 1:25
Sample Matrix : Water
Lab Number : 21645-03

Parameter	MRL	Measured Conc.	Units
Methyl-tert-butyl ether	**120**	**4200**	ug/L
Dibromofluoromethane (surr)		124	% Recovery

MRL = Method Reporting Limit Conc. = Concentration
B = Analyte was detected in Method Blank.
E = Concentration exceeded calibration range.

Approved By : Tom Kiyoka

ACCULABS, INC.

CHANGE ORDER FORM

DATE: 8-17-00 TIME: 1405

COMPANY: Gribi Associates

PROJECT #: 147-01-02 SAMPLE LOG#: 21645

PROJECT NAME: Dublin Toyota

ORDER TAKEN BY: Troy ORDERED BY: Jim Gribi

SAMPLE#	CHANGE REQUESTED	TURN-AROUND-TIME (If Applicable)
01-02-05-06	add Diesel	Standard TAT

REMARKS:

****

UPDATE SECTION: (Initial/Date/Time)

FRONT COMPUTER	VOLATILES	DIESEL	SLOG BOOK
JBT / 8-17-00 / 1715	JBT / 8-17-00 / 1718	JBT / 8-17-00 / 1718	/ /

Acculabs Inc.

[ ] 3902 E. University Dr. Phoenix AZ 85034 602-437-0979 Fax 437-0826
[ ] 710 E. Evans Blvd. Tucson, AZ 85713 520-884-5811 Fax 884-5812
[ ] 2020 W. Lone Cactus Dr. Phoenix AZ 85027 602-780-4300 Fax 780-7695
[ ] 4663 Table Mountain Dr. Golden CO 80403 303-277-9514 Fax 277-9512
[ ] 992 Sparks Islands Dr. Sparks NV 89431 702-355-0202 Fax 355-0817
[ ] 1046 Olive Drive #2 Davis CA 95616 530-757-0920 Fax 753-6091

Lab Number: 21645
Report Due Date:

Client	Gribi Associates			PUBLIC WATER SUPPLY INFORMATION	
Address	1360 Hayes Street, Ste C-14			System Name	
City, State & Zip	Benicia, CA 94510			PWS No.	Report to State/EPA Y N
Contact	Jim Gribi			POE No.	DWR No.
Phone	707/748-7745	Project Name	DUBLIN TOYOTA	Collection Point	
Fax	707/748-7763	Project Number	147-01-02	Collector's Name	
P.O. Number		Fax Results (Y) N	Page 1 of 2	Location (City)	

SAMPLE TYPE CODES
DW = drinking water; WW = waste water; MW = monitoring well; HW = hazardous waste; TB = travel blank; SC = solid; SO = soil; SL = sludge

Compliance Monitoring: Y N

TURNAROUND TIME REQUESTED
(Standard) RUSH Special

Lab Director Approval

CLIENT'S SAMPLE ID/LOCATION	Date	Time	Sample Type	Containers	Analyses Requested: TPH-G/BTEX/MTBE; MTBE CONFIRM	HOLD	Spl. No.
IB-5.1	8/11/00		S	1	X		01
IB-5.2	8/11/00		S	1	X		02
[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]
IB-5W	8/11/00		W	3	X X		04 03
MW-3.1	8/11/00		S	1		X	05 04
MW-3.2	8/11/00		S	1	X		06 05
MW-3.3	8/11/00		S	1	X		07 06
MW-3.4	8/11/00		S	1		X	08 07

Instructions/Comments/Special Requirements:

SAMPLE RECEIPT			Date	Time	Samples Relinquished By	Samples Received By
Received Cold	(Y)	N	8/11/00	3:45	[signature]	[signature]
Custody Seals	Y	N				
Seals Intact	Y	N				
No. of Containers						

Acculabs' terms are: Net 40 (Payment must be received by the date shown on the invoice or any discount is void)

ACCULABS, INC.

Sample Log 21676
August 29, 2000

Jim Gribi
Gribi Associates
1350 Hayes Street, #C-14
Benicia, CA 94510

Subject : 3 Water Samples
Project Name : Dublin Toyota
Project Number : 147-01-02

Dear Mr. Gribi,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Acculabs - Davis is certified by the State of California (# 2330), the State of Arizona (AZ0583) and the State of Nevada. If you have any questions regarding procedures or results, please call me at 530-757-0920.

Sincerely,

Tom Kwoka

1046 Olive Drive, Davis, California 95616
Telephone (530)757-0920 Fax (530)753-6091 www.acculabs.com

ACCULABS, INC.

Sample Log 21676

MTBE (Methyl-t-butyl ether) By EPA Method 8020/602

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/18/00
Received : 08/18/00
Matrix : Water

AMPLE	Date Analyzed	(MRL) ug/L	Measured Value ug/L
W-1	08/19/00	(500)	48000
W-2	08/19/00	(5.0)	16
W-3	08/19/00	(5.0)	330

Approved By:

Tom Kwoka
Lab Director

ACCULABS, INC.

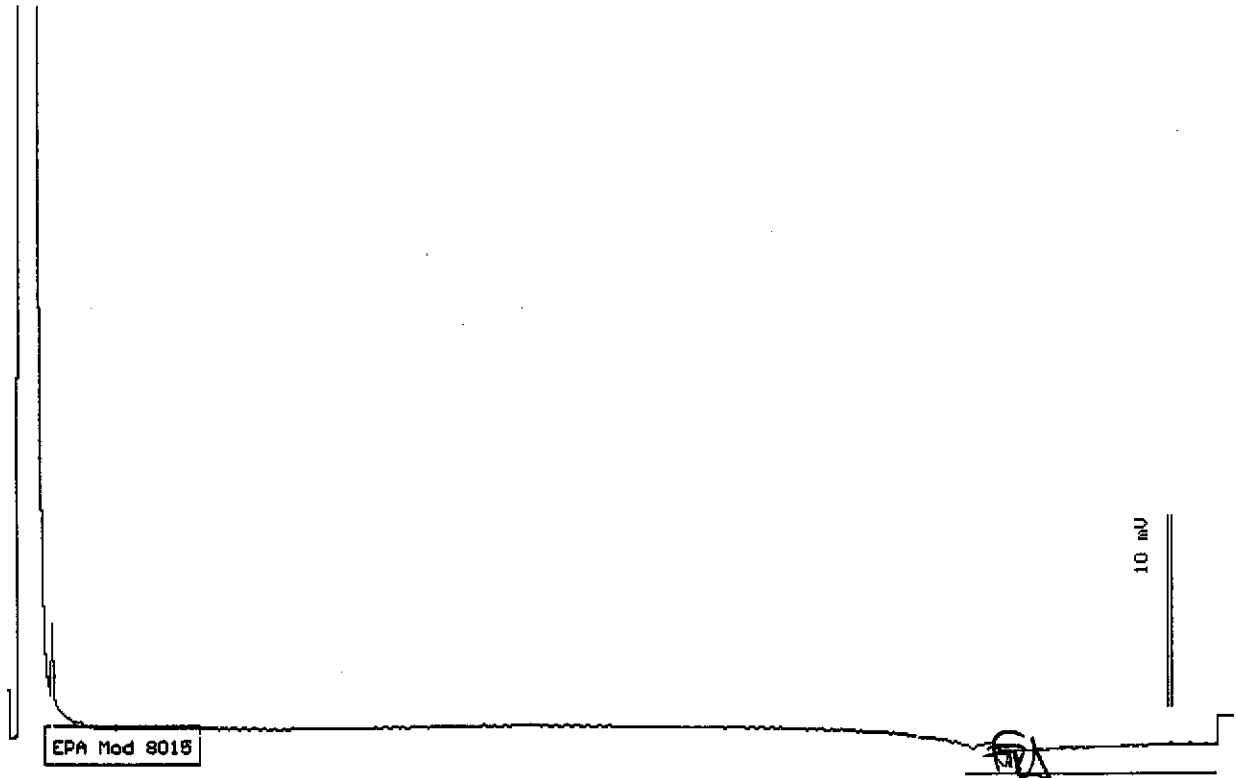
Sample Log 21676

21676-02

Sample: **MW-2**

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/18/00
Extracted: 08/21/00 QC Batch : DW000803
Dilution : 1:1 Run Log : 7474E
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100



Date: 08-21-00 Time: 18:13:14
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

ACCULABS, INC.

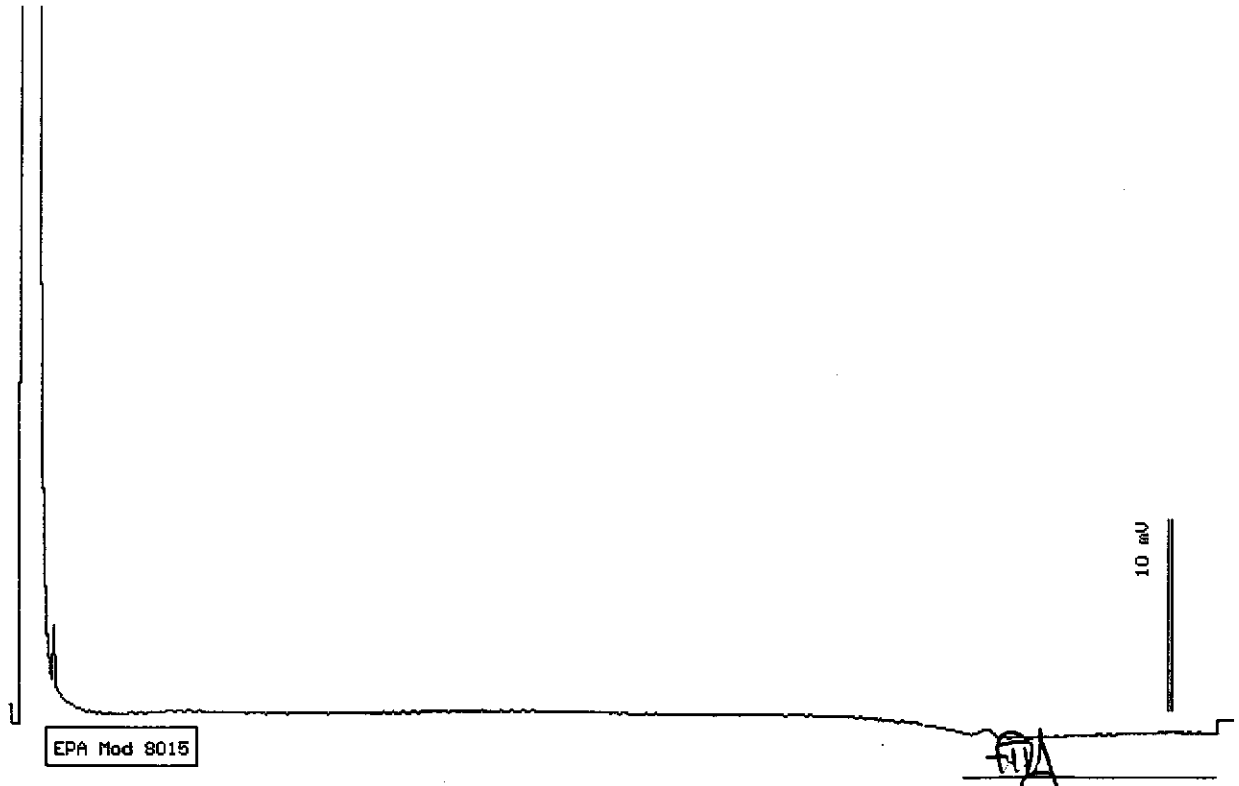
Sample Log 21676

21676-03

Sample: **MW-3**

From : Dublin Toyota (Proj. # 147-01-02)
Sampled : 08/18/00
Extracted: 08/21/00 QC Batch : DW000803
Dilution : 1:1 Run Log : 7474E
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100



Date: 08-21-00 Time: 18:48:49
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

Acculabs Inc. - Davis

TPH Diesel by 8015 Mod QC Report

Matrix:	Water
QC Batch:	DW000803
QC Limits Set:	7/27/00

Date Extracted:	8/16/00
Date Analyzed:	8/16/00

Parameter	Spike Conc ug/L	LCS % Rec	LCSD % Rec	RPD
TPH as Diesel	1000	90	75	18.2

Control Chart Limits	
Lower	Upper
70	130

	MDL	Measured value
Method Blank	ug/L	ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100

Tom Kwoka

Laboratory Director

C:\EXCEL\QC\Dw000803

ACCULABS, INC.

Sample Log 21676
August 29, 2000

MTBE By EPA 8260B

Sample Name : **MW-1**

Project Name : Dublin Toyota
Project Number : 147-01-02
Sample Date : 08/18/00
Date Analyzed : 08/25/00

Date Received : 08/18/00
Dilution : 1:500
Sample Matrix : Water
Lab Number : 21676-01

Parameter	MRL	Measured Conc.	Units
Methyl-tert-butyl ether	**2500**	**66000**	ug/L
Dibromofluoromethane (surr)		106	% Recovery

MRL = Method Reporting Limit Conc. = Concentration

B = Analyte was detected in Method Blank.

E = Concentration exceeded calibration range.

Approved By : Tom Kwoka

ACCULABS, INC.

Sample Log 21676
August 29, 2000

MTBE By EPA 8260B

Sample Name : **MW-3**

Project Name : Dublin Toyota
Project Number : 147-01-02
Sample Date : 08/18/00
Date Analyzed : 08/28/00

Date Received : 08/18/00
Dilution : 1:10
Sample Matrix : Water
Lab Number : 21676-03

Parameter	MRL	Measured Conc.	Units
Methyl-tert-butyl ether	**50**	**570**	ug/L
Dibromofluoromethane (surr)		122	% Recovery

MRL = Method Reporting Limit Conc. = Concentration

B = Analyte was detected in Method Blank.

E = Concentration exceeded calibration range.

Approved By : Tom Kwoka

Acculabs - Davis

ACCULABS, INC.

EPA 8260B QC Report - Oxygenates

Matrix:	Water

QC Batch:	OW000825

Date Analyzed:	8/25/00

Spike Data

Parameter	Spike Conc ug/L	MS % Rec	MSD % Rec	RPD	LCS % Rec
Methyl-tert-Butyl Ether	50	85	100	15.7	78

Method Blank Data

Parameter	MRL	Measured Concentration	Units
tert-Butanol	20	<20	ug/L
Methyl-tert-Butyl Ether	5.0	<5.0	ug/L
Diisopropyl Ether	5.0	<5.0	ug/L
Ethyl tert-Butyl Ether	5.0	<5.0	ug/L
tert-Amylmethyl Ether	5.0	<5.0	ug/L

Quality Control Data

Surrogate Compounds	Control Chart Limits Lower	Upper
Dibromofluoromethane	80	122

Tom Kwoka
Laboratory Director

Acculabs - Davis

ACCULABS, INC.

EPA 8260B QC Report - Oxygenates

Matrix:	Water
QC Batch:	OW000828
Date Analyzed:	8/28/00

Spike Data

Parameter	Spike Conc ug/L	MS % Rec	MSD % Rec	RPD	LCS % Rec
Methyl-tert-Butyl Ether	50	133	112	17.3	97

Method Blank Data

Parameter	MRL	Measured Concentration	Units
tert-Butanol	20	<20	ug/L
Methyl-tert-Butyl Ether	5.0	<5.0	ug/L
Diisopropyl Ether	5.0	<5.0	ug/L
Ethyl tert-Butyl Ether	5.0	<5.0	ug/L
tert-Amylmethyl Ether	5.0	<5.0	ug/L

Quality Control Data

Surrogate Compounds	Control Chart Limits Lower	Upper
Dibromofluoromethane	80	122

Tom Kwoka
Laboratory Director

Acculabs Inc.

[ ] 3902 E. University Dr. Phoenix AZ 85034 602-437-0979 Fax 437-0826
[ ] 710 E. Evans Blvd. Tucson AZ 85713 520-884-5811 Fax 884-5812
[ ] 2020 W. Lone Cactus Dr. Phoenix AZ 85027 602-780-4800 Fax 780-7695
[ ] 4663 Table Mountain Dr. Golden CO 80403 303-277-9514 Fax 277-9512
[ ] 992 Spice Islands Dr. Sparks NV 89431 702-355-0202 Fax 355-0817
[ ] 1046 Olive Drive #2 Davis CA 95616 530-757-0920 Fax 753-6091

Lab Number: 21676
Report Due Date:

Client	Gribi Associates			PUBLIC WATER SUPPLY INFORMATION	
Address	1350 Hayes Street, Ste C-14			System Name	
City, State & Zip	Benicia, CA 94510			PWS No.	Report to State/EPA Y N
Contact	Jim Gribi			POE No.	DWR No.
Phone	707/748-7743	Project Name	DUBLIN TOYOTA	Collection Point	
Fax	707/748-7763	Project Number	147-01-02	Collector's Name	JPJ
P.O. Number		Fax Results	(Y) N	Page 1 of 1	Location (City)

SAMPLE TYPE CODES

DW = drinking water; TB = travel blank
WW = waste water; SD = solid
MW = monitoring well; SO = soil
HW = hazardous waste; SL = sludge

Compliance Monitoring Y N

TURNAROUND TIME REQUESTED

(Standard)
RUSH
Special

Lab Director Approval

CLIENT'S SAMPLE ID/LOCATION	Date	Time	Sample Type	Containers	TPH-G/BTEX/MTBE	MTBE CONFIRM	TPH-D/MO	HOLD	Spl. No.
MW-1	8/18/00		W	3	X	X	X		01
MW-2	8/18/00		W	3	X		X		02
MW-3	8/18/00		W	3	X	X	X		03

Instructions/Comments/Special Requirements:

SAMPLE RECEIPT			Date	Time	Samples Relinquished By	Samples Received By
Received Cold	(Y)	N	8/18	12:13		
Custody Seals	Y	N				
Seals Intact	Y	N				
No. of Containers						

Acculabs' terms are: Net 40 (Payment must be received by the date shown on the invoice or any discount is void)

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