DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

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

June 27, 2005

Mr. Allan Sebanc 10 Stacey Ct. Hillsborough, CA 94010

Dear Mr. Sebanc:

Subject:

Fuel Leak Site Case Closure, Dublin Retail Center, 7900 Dublin Blvd., Dublin, CA

94568; Case No. RO0002446.

This letter confirms the completion of a site investigation and remedial action for the five (5) underground storage tanks, (4- 6000 gallon and 1- unknown volume), formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung

Director

Alameda County Environmental Health







June 27, 2005

Mr. Allan Sebanc 10 Stacey Ct. Hillsborough, CA 94010 ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 04502 6577

Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Dear Mr. Sebanc:

Subject:

Fuel Leak Site Case Closure, Dublin Retail Center, 7900 Dublin Blvd.,

Dublin, CA 94568; Case No. RO0002446.

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Up to 1.9 parts per million (ppm) Total Petroleum Hydrocarbons as diesel (TPHd) remain in soil at this site.
- Up to 440 parts per billion (ppb) Total Petroleum Hydrocarbons as gas (TPHg), 1000 ppb TPHd, 21 ppb toluene, 6.9 ppb ethyl benzene, 48 ppb xylenes and 160 ppb methyl tertiary butyl ether (MTBE) remain in groundwater at this site.

If you have any questions, please call Barney Chan at (510) 567-6765. Thank you.

Sincerely.

Donna L. Drogos, P.E. LOP Program Manager

Enclosures:

- 1. Case Closure Letter
- 2. Case Closure Summary

cc: Ms. Cherie McCaulou Regional Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, CA 94612

> Mr. Toru Okamoto (w/enc) State Water Resources Control Board Underground Storage Tank Cleanup Fund P.O. Box 944212 Sacramento, CA 94244-2120

Mr. Matthew Katen (w/enc) Zone 7 Water Agency 5997 Parkside Drive Pleasanton, CA 94588-5127

B. Chan, (w/orig enc), D. Drogos (w/enc), R. Garcia LaGrille(w/enc)

CASE CLOSURE SUMMARY LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: April 25, 2005

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6719
Responsible Staff Person: Robert W. Schultz	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Dublin Retail Center				
Site Facility Address: 7900 Dublin Blvd., Dublin, CA				
RB Case No.:	Local Case No.:	LOP Case No.: R00002446		
URF Filing Date: 2/25/03	SWEEPS No.:	APN: 941-1500-017-06		

Responsible Parties	Addresses	Phone Numbers
Allan Sebanc	10 Stacey Ct., Hillsborough, CA	415-391-9220

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	6,000	gasoline	removed	8/12/1983
2	6,000	gasoline	removed	8/12/1983
3	6,000	gasoline	removed	8/12/1983
4	6,000	gasoline	removed	8/12/1983
5	unknown	waste oil '	removed	8/12/1983
	Piping		removed	8/12/1983

III. RELEASE AND SITE CHARACTE **LATION INFORMATION**

Cause and Type of Release: unknown, UST removal records not submitted Site characterization complete? Yes Date Approved By Oversight Agency: -----

Monitoring wells installed? No	Number: 0	Proper screened interval? NA
Highest GW Depth Below Ground Surface: 20 ft (per boring logs)	Lowest Depth: 27 ft	Flow Direction: east-southeast (based on monitoring well data from upgradient site RO-206)
Most Sensitive Current Use: Potential drinking		upgradient site RO-206)

Summary of Production Wells in Vicinity:

No water supply wells were identified within 1/4-mile of the subject site. One water supply well was identified within 1/2mile of the site. This well is located approximately 1/2 mile upgradient of the site and is consequently not considered a potential receptor.

Are drinking water wells affected? No Aquifer Name: Livermore Valley			
Is surface water affected? No Nearest SW Name: Dublin Creek, 1,200 feet SSE			
Off-Site Beneficial Use Impacts (Addresses/Locations): None			
Reports on file? Yes Where are reports filed? Alameda County Environmental Health			

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL				
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date	
Tank	4 USTs	Offsite Disposal. Unknown destination.	8/12/1983	
Piping	not reported	Offsite Disposal. Unknown destination.	8/12/1983	
Free Product	none encountered			
Soil	none reported	unknown	unknown	
Groundwater	none reported	unknown	unknown	

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP (Please see Attachments 1thrrough 5 for additional information on contaminant locations and concentrations)

O antonio ant	Soil (Soil (ppm)		Water (ppb)	
Contaminant	Before	After	Before	Alter	
TPH (Gas)	<1.0	<1.0	440	440	
TPH (Diesel)	1.9	1.9	1,000	1,000	
Oil & Grease	*				
Benzene	<0.005	<0.005	<0.5	<0.5	
Toluene	<0.005	<0.005	21	21	
Ethylbenzene	<0.005	<0.005	6.9	6.9	
Xylenes	<0.005	<0.005	48	48	
Heavy Metals	*	****		•••	
MTBE	<5.0¹	<5.0 ¹	160 ^{2,3}	160 ^{2,3}	
Other (8240/8270)	*			=1=	

¹ = soil: <5.0 ppm TAME, <5.0 ppm ETBE, <5.0 ppm DIPE, <25 ppm TBA, <5.0 ppm EDB, and <5.0 ppm 1,2-DCA

Site History and Description of Corrective Actions:

The site consists of one building with four units and parking areas. Current use of the site is for retail businesses (Sleep Train, Jenny Craig, Luggage Store, Starbuck's). Improvements were completed in 1985. Past use of the site included an ARCO service station from approximately 1975 through 1983. Below listed is the chronology of environmental investigation related events which took place at this facility:

- 1983 1985 The former service station and UST system was removed. A 1984 geotechnical report states
 that 14 ft of fill material was imported to the site. No records regarding UST removal procedures were
 submitted.
- July through September 1998 A Phase I Environmental Site Assessment identified historical use of the site
 and an upgradient, offsite service station as recognized environmental conditions in connection with the
 subject site. On September 2, 1998 Three soil samples (5, 10 and 15 ft bgs) were collected from a boring
 adjacent to one of the two former fuel dispenser locations. No TPHd, TPHg, BTEX or MTBE were detected
 in any of the soil samples. A second boring was drilled to groundwater (27 ft bgs) approximately 100 ft
 downgradient. The analytical laboratory reported 1000 ug/l TPHd, 440 ug/l TPHg, 160 ug/l MTBE, 21 ug/l
 toluene and 0.69 ug/l xylenes in the groundwater sample. No benzene or ethylbenzene were detected in the
 sample.
- February 2003 –Six additional borings (GP-1 through GP-6) were drilled at the site to collect soil and groundwater samples. Two soil samples and one groundwater sample were analyzed from each boring. Boring GP-1 was drilled through the former UST pit, boring GP-2 was drilled adjacent to the former fuel piping run from the USTs to the dispensers, and boring GP-3 was drilled in the location of the second dispenser, which had not previously been sampled. Up to 1.9 mg/kg TPHd was detected in soil. No other fuel constituents, including oxygenates and lead scavengers, were detected in soil. Up to 1,200 ug/l TPHd, 6.9 ug/l lethylbenzene, 48 ug/l xylenes, 77 ug/l MTBE, and 13 ug/l TBA were detected in groundwater.

As described below, Augeas Corporation states that the detected MTBE and TBA concentrations appear to be the result of offsite migration of dissolved contaminant from the upgradient service station (Fuel leak case No. RO-206). Corrective action is being performed at that site by Chevron.

² = groundwater: <1.0 ppb TAME, <1.0 ppb ETBE, <1.0 ppb DIPE, 13 ppb TBA³, <1.0 ppb EDB, and <1.0 ppb 1,2-DCA

³ = detected concentration believed to be the result of source at upgradient Chevron site (LOP Case No. RO-206).

^{* =} no sampling performed at waste oil UST

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes No

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes No

Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.

Site Management Requirements: None

Should corrective action be reviewed if land use changes? No

List Enforcement Actions Taken: None

List Enforcement Actions Rescinded: None

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

The USTs were removed between 1983 and 1985; however, no records were submitted to ACEH regarding removal and disposal of the UST system or soil surrounding former USTs. A geotechnical report was submitted which indicated that 14 ft of fill material was imported to the site. No significant residual petroleum hydrocarbons were detected in soil during the investigations conducted in 1998 and 2003. No water supply wells, surface water or other receptors were identified within 1/2-mile downgradient of the site. The residual soil and groundwater hydrocarbon concentrations are below the applicable environmental screening levels (ESLs) published by the State Regional Water Quality Control Board or applicable risk screening thresholds for all existing onsite exposure pathways. Current groundwater petroleum hydrocarbon concentrations are below the California Primary Maximum Contaminant Levels (MCLs) for drinking water. Groundwater concentrations are anticipated to achieve water quality objectives within a reasonable time frame because petroleum hydrocarbons tend to stabilize close to the source and biodegradation is an important factor in the stabilization, and because at this site the lighter end hydrocarbons are no longer present, suggesting that a certain degree of biodegradation has already occurred. All detected groundwater concentrations are below MCLs for drinking water except MTBE. MTBE was detected in site groundwater at concentrations up to 160 ug/L; however a fuel release site exists approximately 400 ft upgradient (west) of the site. MTBE is a chemical of concern at the upgradient site (ACEH Case No. R00000206), where corrective action is ongoing, and Augeas Corporation states that the detected concentrations appear to be the result of offsite migration from the upgradient site.

Boring B-2 was advanced to 30 ft bgs in 1998 while borings GP-1 through GP-6 were advanced to 24 to 25 ft bgs in 2003. Groundwater was encountered at 27 ft bgs in 1998 in boring B-2, and at 20 ft in 2003 in borings GP-1 through GP-6. Of note, clayey sands were encountered between approximately 22 and 28 ft bgs in boring B-2. Since borings GP-1 through GP-6 did not encounter the water-bearing clayey sands found in boring B-2, direct comparison of the relative contaminant concentrations between the 1998 and 2003 onsite boring series may not be appropriate.

Analytical results for onsite groundwater indicate that TPHd was higher in shallower onsite groundwater sampled in 2003 than in the deeper onsite groundwater sampled in 1998. The opposite trend appears for MTBE. MTBE concentrations were higher in deeper onsite groundwater sampled in 1998 than in the more shallow onsite groundwater sampled in 2003. The onsite occurrence of higher MTBE concentrations in the deeper boring as compared to the results for the more shallow onsite borings would be consistent with an offsite release affecting the higher hydraulic conductivity soils encountered onsite between 22 and 28 ft bgs.

Based on Chevron's groundwater monitoring data, the saturated zone between 20 to 35 ft bgs, including the higher hydraulic conductivity zone beneath 26 ft bgs, is understood to have been contaminated by MTBE at that upgradient site. Chevron wells MW-3 and MW-9, which are upgradient of the subject site were reported to contain MTBE.

Delta Environmental Consultants provided the following description of site geology for the upgradient Chevron site:

"Based on the boring logs from wells and soil borings drilled at the site to date, the material underlying the site is described as a silt to silty clay extending from the surface to a depth of approximately 7 ft bgs, underlain by sequences of sandy clay, clay and silty sand to an approximate depth of 26 ft bgs, which is underlain by sandy gravel to approximately 29 ft bgs. Beneath the sandy gravel lens are sequences of clayey sand to sandy clay with silt to the total depth explored of 51.5 ft bgs."

Based on Delta's description, higher hydraulic conductivity may be anticipated below 26 ft bgs at the upgradient site. The findings in onsite boring B-2 fit this same pattern. Based on ACEH's review, 1) additional data is necessary to fully understand the distribution of the MTBE plume: 2) the upgradient Chevron site is a potential source of the detected

MTBE, and 3) the former onsite USTs are the likely source of the onsite TPHd; however, it is less likely that the onsite USTs were the source of the detected MTBE.

The former gasoline UST locations were not fully accessible due to the 1983 through 1985 redevelopment of the site, including construction of the current retail facilities. One soil boring was drilled through the believed location of the former gasoline tank pit. The former waste oil UST area was not accessible so no sampling was performed for typical waste oil compounds including oil and grease, semi-volatile organic compounds, or heavy (LUFT) metals.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Robert W. Schultz	Title: Hazardous Materials Specialist
Signature: Robert W. School	Date: 5/11/05
Approved by: Danna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature:	Date: 5/11/05

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION	VII.	REGIONAL	BOARD	NOTIFIC	ATION
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The second secon	Engineering Geologist
tegional Board Staff Name: Cherie McCaulow	Title: Accociate Water Resources Gentral Engineer.
B Response: Concur, based solely upon information onlained in this case closure summary.	Date Submitted to RB: 5/12/05
ignature L. H. Caul	Date: 5//2/v5

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: no wells at site	Requested by ACEH: no wells at site Date of Well Decommissioning Report:			
All Monitoring Wells Decommissioned: Yes No	Number Decommissioned:	Number Retained:		
Reason Wells Retained;	***************************************			
Additional requirements for submittal of groundwater	data from retained wells:			
ACEH Concurrence - Signature:	Date:			

Attachments:

- Site Vicinity Map
- 2. Site Plan
- Site Plan Upgradient Site
- 4. Soil Analytical Data
- 5. Groundwater Analytical Data
- Boring Logs

This document and the related CASE CLOSURE LETTE

L. 1700 DUBIN NET	
Post-it* Fax Note 7671	Date 5/12/05 pages ► /
To Bob Schultz	From Cheric McCaylon
ACEH	CO. RWELB
Phone #	Phone # 570 -623-2342
Fex # 576 . 237. 9335	Fax# <76.622.2464

Page 5 of 5

RO0002446 -- Closure Summary

MTBE, and 3) the former onsite USTs are the likely source of the onsite TPHd; however, it is less likely that the onsite USTs were the source of the detected MTBE.

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Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Robert W. Schultz	Title: Hazardous Materials Specialist
Signature: Robert W. Selve	Date: 5/11/05
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: Lind Holast	Date: 5/11/05

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name:	Title: Associate Water Resources Control Engineer
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature:	Date:

VIII. MONITORING WELL DECOMMISSIONING

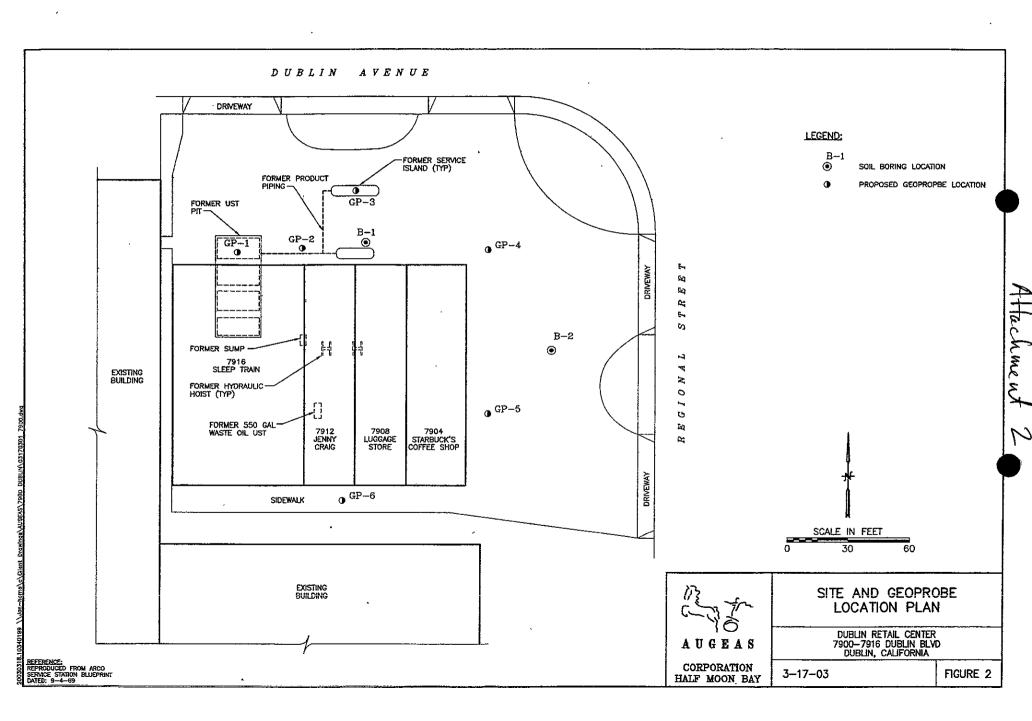
Date Requested by ACEH: no wells at site	Date of Well Decommissioning Report:
All Monitoring Wells Decommissioned: Yes No	Number Decommissioned: Number Retained:
Reason Wells Retained: MA	
Additional requirements for submittal of groundwater da	ta from retained wells: $\mathcal{M}\mathcal{A}$
ACEH Concurrence - Signature:	Date: 04/08/05

Attachments:

- 1. Site Vicinity Map
- Site Plan
- 3. Site Plan Upgradient Site
- 4. Soil Analytical Data
- Groundwater Analytical Data
- Boring Logs

This document and the related CASE CLOSURE LETTER shall be retained by the lead agency as part of the official site file.

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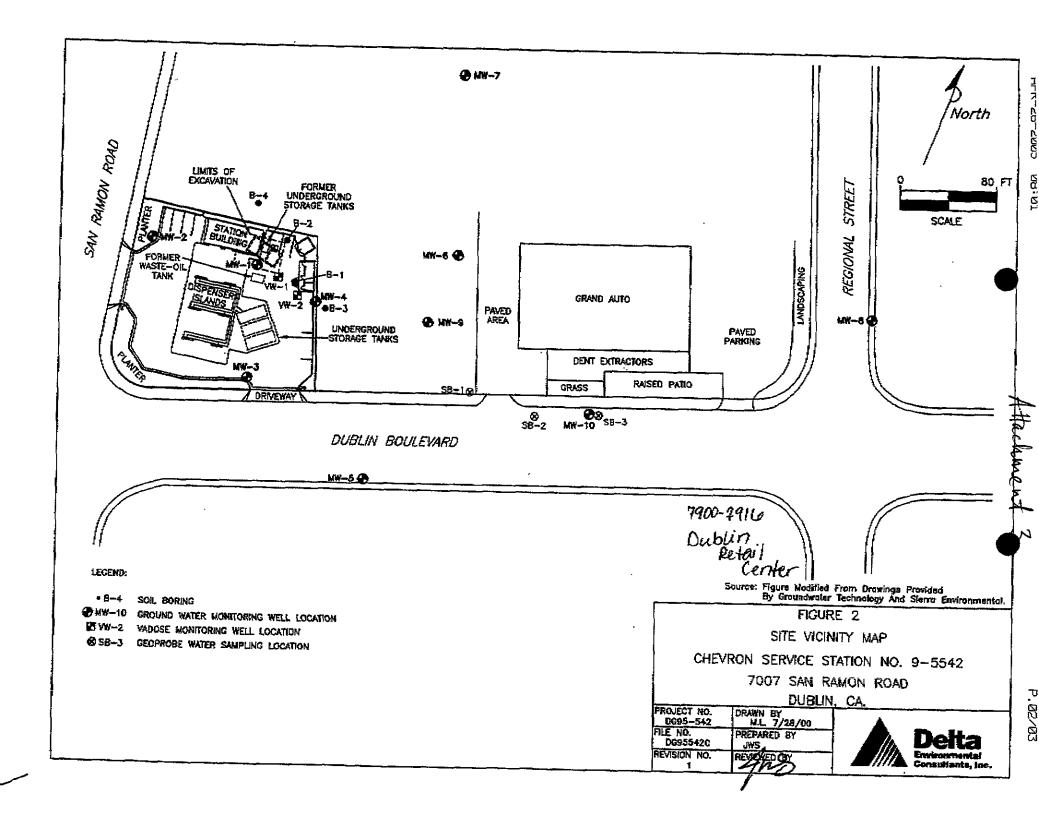


Table 1 Historical Soil Analytical Results
Dublin Retail Center

7900-7916 Dublin Boulevard, Dublin, California

Sample ID	Sample depth	depth Collected	l (ma/ka) l			Aromatic Volatile Organic Compounds (mg/kg)			Oxygenated Compounds (mg/kg)								
·	(ft)	Concolo	Gasoline	Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	МТВЕ	DIPE	ETBE	TAME	tert- Butanol	eth- anol	meth- anol	1,2- DCA	EDB
AB-1A** AB-1B**	5 10	8/31/98 8/31/98	<1.0 <1.0	<1.0 <1.0	<0.005 <0.005	<0.005 <0.005	<0.005 <0.005	<0.005 <0.005	<0.005* <0.005*						*-	#-	
AB-1C**	15	8/31/98	<1.0	<1.0	<0.005	< 0.005	<0.005	< 0.005	<0.005*								
GP-1@4' GP-1@16'	4 16	2/21/03 2/21/03	<1.0 <1.0	1.6 g <1.0	<0.005 <0.005	<0.005 <0.005	<0.005 <0.005	<0.005 <0.005	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<25 <25	<2500 <2500		<5.0 <5.0	<5.0
GP-2@8'	8	2/21/03	<1.0	<1.0	< 0.005	< 0.005	< 0.005	<0.005	<5.0	<5.0	<5.0	<5.0	<25	<2500		<5.0	<5.0 <5.0
GP-2@20'	20	2/21/03	<1.0	<1.0	<0.005	< 0.005	<0.005	< 0.005	<5.0	<5.0	<5.0	<5.0	<25	<2500		<5.0	<5.0
GP-3@12'	12	2/21/03	<1.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	<5.0	<5.0	<5.0	<5.0	<25	<2500	<250	<5.0	<5.0
GP-3@20'	20	2/21/03	<1.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	<5.0	<5.0	<5.0	<5.0	<25	<2500	<250	<5.0	<5.0
GP-4@4'	4	2/21/03	<1.0	1.2 g	<0.005	<0.005	<0.005	< 0.005	<5.0	<5.0	<5.0	<5.0	<25	<2500	<250	<5.0	<5.0
GP-4@16' GP-5@8'	16 8	2/21/03	<1.0	<1.0	<0.005	<0.005	< 0.005	< 0.005	<5.0	<5.0	<5.0	<5.0	<25	<2500	<250	<5.0	<5.0
GP-5@80'	8 20	2/21/03	<1.0	1.9 g	<0.005	<0.005	<0.005	<0.005	<5.0	<5.0	<5.0	<5.0	<25	<2500		<5.0	<5.0
GP-6@10'		2/21/03	<1.0	<1.0	<0.005	<0.005	< 0.005	< 0.005	<5.0	<5.0	<5.0	< 5.0	<25	<2500	<250	<5.0	<5.0
GP-6@10' GP-6@20'	10 20	2/21/03	<1.0	1.0 g	<0.005	< 0.005	<0.005	< 0.005	<5.0	<5.0	<5.0	<5.0	<25	<2500		<5.0	<5.0
Or-0@20	20	2/21/03	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<5.0	<5.0	<5.0	<5.0	<25	<2500	<250	<5.0	<5.0
Anal	ytical Metl	nod	801:	5M		80	20			~		8	260M		***		-

Notes:

-- = not applicable

(mg/kg) = milligrams per kilograms

MTBE = methyl tertiary butyl ether

DIPE = Di-isoprpopyl Ether

ETBE = Ethyl tert-Butyl Ether

TAME - tert-Amyl Methyl Ether

1,2-DCA = 1, 2-Dichloroethane

EDB = Ethylene dibromide

g = oil range compounds are significant

* = analyzed with EPA 8020

** = soil samples collected from boring B-1

Table 2 **Historical Groundwater Analytical Results**

Dublin Retail Center 7900-7916 Dublin Boulevard, Dublin, California

Sample ID	Date Collected	$(\mu \xi/L)$			Aromatic Volatile Organic Compounds (μg/L)			Oxygenated Compounds (µg/L)								
	Conected	Gasoline	Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	МТВЕ	DÏÞE	ETBE	TAME	ТВА	eth- anol	meth- anol	1,2- DCA	EDB
GW-1*	9/2/98	440 b,f	1,000 g,b	<0.5	21	<0.5	0.69	160*								
	2/21/03	<50 i	76 i,g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<50	<500	<0.5	<0.5
GP-2-W	2/21/03	<50 i	190 i,b,g	<0.5	<0.5	< 0.5	<0.5	1.4	< 0.5	<0.5	< 0.5	<5.0	<50	<500	<0.5	<0.5
	2/21/03	<50	62 b	<0.5	<0.5	< 0.5	< 0.5	77	<1.0	<1.0	<1.0	<10		<1000	<1.0	<1.0
GP-4-W	2/21/03	<50 i	1,200 c/m,i	<0.5	< 0.5	< 0.5	< 0.5	74	<1.0	<1.0	<1.0	13		<1000		<1.0
	2/21/03	120 a,I	450 g	<0.5	< 0.5	6.9	48	<0.5	<0.5	<0.5	<0.5	<5.0	<50	<500		<0.5
GP-6-W	2/21/03	<50 i	70 i,g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<50	<500	1012	<0.5
Analytic	cal Method	80	15M		80	20					82	260M				

Notes:

-- = not applicable

NS = Not Sampled

FPP = Free Phase Product

(µg/L) =micrograms per liter

MTBE = methyl tertiary butyl ether

DIPE = Di-isoprpopyl Ether

ETBE = Ethyl tert-Butyl Ether

TAME - tert-Amyl Methyl Ether

1,2-DCA = 1, 2-Dichloroethane

EDB = Ethylene dibromide

TBA = tert-butyl alcohol

f = one to a few isolated peaks present

g = oil range compounds are significant

c = aged diesel? Is significant

b = diesel range compounds are significant; no recognizible pattern

m = fuel oil

GW-1* = "grab" groundwater sample collected from boring B-2

Attachment 6

Project: 7900-7916 Dublin Box	evard, Dublin, CA	Boring I.D.: B-1	Page: 1 of 1		
Drilling Agency: N/A		Date Started: 8/31/98	Date Finished: 8/31/98		
Drilling Equipment: Hand Auger	Logged By: JC	Completion Depth: ~15'	Hammer: N/A		
Drilling Method: Hand Auger	Samples: 3	Initial Water Depth: N/A	Sampler: brass		

WELL DETAILS: N/A

Depth (feet)	Lithologic Description/Remarks	PID/(PPM)	Soil Class'n	Depth (feet)	Blows/ft.	Sample Interval Sample Number	Well Construction
1 - 2 - 3 - 4 - 5 - 6 - 7 8 - 9 10 - 11 - 12 - 14 - 15 - 16 - 17 - 18 - 20 - 22 - 23 - 23 - 23 - 24 - 24 - 24 - 24	3.0 to 4.0 inches of ashpalt at ground surface Base rock to approximately 1.0 feet bgs Clayey silt (ML); light to medium brown; slightly damp; low plasticity; no product odor; 0-10% fine sand, 70-80% silt, 20-30% clay Silty clay (CL); medium brown; damp to moist; low to medium plasticity; no product odor; 0-10% fine sand, 25-35% silt, 65-75% clay Same as above; 6 0" to 1.0' fine to medium sand stringer occurs at approximately 13.5' bgs Total depth = 15 feet bgs	14	ML CL CL	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 23 - 23 - 23 - 23 - 23 - 23 - 2	6	B-1@10'	
24 - 25 -				24- 25-			

AUGEAS CORPORATION

Site Address: 7900-7916 Dublin Boulevard, Dublin, CA

Project: 7900-7916 Dublin Bo	mevard, Dublin, CA	Boring I.D.: B-2	Page: 1 of 2		
Drilling Agency: N/A	·	Date Started: 9/2/98	Date Finished: 9/2/98		
Drilling Equipment: Geoprobe	Logged By; JC	Completion Depth: ~30'	Hammer: N/A		
Drilling Method: direct push	Samples: 1 (water)	Initial Water Depth: ~27'	Sampler: hydropunch		

WELL DETAILS: N/A

Depth (feet)	Lithologic Description/Remarks	PID/(PPM)	Soil Class'n	Depth (feet)	Blows/ft.	Sample Interval Sample Number	Well Construction
1 - 2 - 3 -	3.0 to 4.0 inches of ashpalt at ground surface Base rock to approximately 1.0 feet bgs			1 - 2 - 3 -			
4 5 6 7	Clayey silt (ML); light to medium brown; slightly damp; low plasticity; no product odor; 0-10% fine sand, 70-80% silt, 20-30% clay	11	ML	4 - 5 - 6 - 7 -			
8 - 9 - 10 - 11 -	Same as above	19	ML	8 - 9 - 10-			
12 - 13 - 14 -	6.0" to 1.0' fine to medium grained sand (SC) stringer occurs at approximately 13.0' bgs			12- 13- 14-			
15 - 16 - 17 - 18 -	Silty clay (CL); medium brown; damp to moist; low to medium plasticity; no product odor; 0-10% fine sand, 25-35% silt, 65-75% clay;	22	CL	15- 16- 17- 18-		3	
19 - 20 - 21 -	Same as above; moist to very moist	20	CL	19- 20- 21-			
22 - 23 - 24 -				22- 23- 24-			
25	Clayey sand (SC); light to medium brown; very moist; no product odor; 65-75% fine to medium sand, 5-15% silt, 20-30% clay;	27	sc	25~			

AUGEAS CORPORATION

Site Address: 7900-7916 Dublin Boulevard, Dublin, CA

Project: 7900-7916 Dublin Bou	ard, Dublin, CA	Boring I.D.: 5-2	Page: 2 of 2
Drilling Agency: N/A		Date Started: 9/2/98	Date Finished: 9/2/98
Drilling Equipment: Geoprobe	Logged By: JC	Completion Depth: ~30'	Hammer: N/A
Drilling Method: direct push	Samples: 1 (water)	Initial Water Depth: ~27'	Sampler: hydropunch

WELL DETAILS: N/A

Lithologic Description/Remarks Color Colo	· · · · · · · · · · · · · · · · · · ·							 ,	
26 - Clayey sand (SC); light to medium brown; very moist; no product odor; 65-75% life to medium sand, 5-15% silt, 20-30% clay; 28 - 29 - 30 - Clayey silt (ML); light to medium brown; saturated; low plasticity; no product odor; 0-10% fine sand, 70-80% silt, 20-30% clay; 31 - 32 - Total depth = 30 feet bgs 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 44 - 44 - 44 - 44 - 44	oth et)	Lithologia Dos	orintion/Pomarks	PPM)	lass'n	(feet)	Æ.	Well	
27 - codor; 85-75% line to medium sand, 5-15% sitt, 20-30% clay; 28 - 29 - 30 - Clayey sitt (ML); light to modium brown; saturated; low plasticity; no product odor; 0-10% line sand, 70-80% sitt, 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 50 - 50 - 50 - 50 - 50 - 50 - 5	Def (fe	Litilologic Des	cription/nemarks	PID/(I	Soil C	Depth	Blows	 1	ction
27 - odor; 65-75% fine to medium sand, 5-15% stilt, 20-30% clay; 28 - 29 - 30 - Clayey stilt (ML); light to medium brown; saturated; low plasticity; no product odor; 0-10% fine sand, 70-80% stilt, 20-30% clay Total depth = 30 feet bgs 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 50 - 50 - 50 - 50 - 50 - 50 - 5	26 -			27	sc	26-			
29 - 30 - Clayey silt (ML); light to medium brown; saturated; low plasticity; no product odor; 0-10% fine sand, 70-80% silt, 20-30% clay 32 - Total depth = 30 feet bgs 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 50 - 50 - 50 - 50 - 50 - 50 - 5		odor; 65-75% fine to medium	sand, 5-15% silt, 20-30% clay;	-					
30 — Clayey silt (ML); light to medium brown; saturated; low plesticity; no product oder; 0-10% fine sand, 70-80% silt, 20-30% clay Total depth = 30 feet bgs 31 — 32 — 33 — 34 — 35 — 36 — 36 — 37 — 38 — 39 — 40 — 41 — 42 — 43 — 44 — 45 — 46 — 47 — 48 — 49 — 50 — 50 — 50 —	28 -				\	28-			
Same	29 –					29-			
31 - 20-30% clay 32 - Total depth = 30 feet bgs 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 42 - 43 - 44 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 50 - 50 -	30 -			34	ML	30-			
33 - 33 - 34 - 34 - 35 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 41 - 42 - 43 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 50 -	31 -		10% fine sand, 70-80% silt,			31-			
34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 -	1	Total depth = 30 feet bgs				1 1			
35 - 36 - 37 - 36 - 39 - 39 - 40 - 41 - 41 - 42 - 43 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 50 -	-								
36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 -	ł					1		*	
37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 -	1					l l			
38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 -	į					1			
39 - 40 - 41 - 40 - 42 - 42 - 43 - 43 - 44 - 45 - 46 - 46 - 47 - 48 - 49 - 50 -									
40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 -	ĺ					((1
41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 -	i]	i i			
43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 -	1								
44 - 45 - 46 - 47 - 48 - 49 - 50 -						42-			
45 - 46 - 47 - 48 - 49 - 50 -	43 -					43-			
46 - 47 - 48 - 49 - 50 -	44 -					44-			
47 - 48 - 49 - 50 - 47 - 48 - 49 - 50 -	45 -					45-			
48 - 49 - 50 - 50 -	46 -					46-			
49 - 50 - 50 -	47 -					47-			
50-	48 -					48-			
	49 -								
	50-					50-			

AUGEAS CORPORATION

Site Address: 7900-7916 Dublin Boulevard, Dublin, CA

Project: 7900	Dublin A	ve., Dawlin, CA		Во	ring	1.0::	G	P-1	Pag	ge: 1 of	1
Drilling Agency	/: ECA	Drilling Method: Geoprobe		Da	te St	arted:	2/	21/03	Dat	e Finished	: 2/21/03
Logged By: JM	ed By: JM Samples: 6 Completion Depth: 24'					Initia	al Water De	epth: 19.8			
Depth (feet)	thologic	Description/Remarks	PID/(PPM)	Soil Class'n	Depth (feet)	Blows/ft.		Sample nterva Sampl Numb	al e	Wel Constru	
SW - Gra 2	tine to coarse grailt ty clay, medium by IPO, 0-10% fine savelly sand, same avelly sand, same y clay w/ some gravelium plasticity, for oarse sand, 15-2 y w/ some silt, light sticity, NPO, 0-10 Evelly sand, same y w/ some silt, same clay w/some gravelly sand, same clay w/some gravelly sand, same clay, same as at , medium brown, same	o medium brown, damp, FeO3, NPO, ravel, 65-75% fine to coarse sand, rown, damp to moist, medium plasticity, sand, 25-35% silt, 65-75% clay as at 3" bgs t 1.5' bgs as at 5'5 bgs avel, light to medium brown, moist, =03, NPO, 5-15% fine gravel, 0-10% 5% silt, 60-70% clay at to medium brown, moist, medium to fine sand, 5-15% silt, 80-90% clay as at 7'bgs, moist me as at 9.5'bgs as at 13'bgs vel, same as at 7.5'bgs, very moist as at 17'bgs, very moist	1 -	GL GH	2 - 4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 28 - 28 - 28 - 28 - 28 - 28			GP-1@4' GP-1@8' GP-1@16' GP-1@20'			
30		•			30-						
Augeas Co	rporation	Site Address: 7900) Dul	bl in .	Ave.	, Duk	olir	, CA	· · · · · · · · · · · · · · · · · · ·		

Drilling Agency: ECA Drilling Method: Gaoprobe Date Started: 2/21/03 Date Finished: 2/21/03	Project	В	oring	I.D.	GP-2	Pa	ge: 1 of 1			
Lithologic Description/Remarks Comparison Comparison	Drilling	Agency: ECA	Drilling Method: Geoprobe		Da	Date Started: 2/21/			Dat	te Finished: 2/21/03
Lithologic Description/Remarks Comparison Comparison	Logged	By: JM	Samples: 6		Co	mpleti	on Dep	oth: 24'	Initi	al Water Depth: 19.85
SW - Gravelly sand, light to medium brown, damp, FoOS, NPC). CL - Silly clay w some gravel, 167-75% fine to coarse and, 5-10% fill to coarse sand, 15-25% sill, 60-70% clay SW - Gravelly sand, same as at 3*Dgs CL - Silly clay w some gravel, same as at 1.5* bgs, moist CL - Silly clay w some gravel, same as at 6.5 CL - Silly clay w some gravel, same as at 6.5 CL - Silly clay w some gravel, same as at 6.5 fill to modium brown, moist, medium to high plasticity, NPO, 0-10% fine sand, 5-15% silt, 60-30% clay CL - Silly clay, medium brown, moist, medium plasticity, Fe03, NPO, 0-10% fine sand, 25-35% silt, 68-75% clay CL - Silly clay, medium brown, moist, medium plasticity, Fe03, NPO, 0-10% fine sand, 25-35% silt, 68-75% clay CL - Silly clay, same as at 13*bgs, moist 18 CL - Silly clay, same as at 13*bgs, very moist, grey moitting CL - Silly clay, same as at 13*bgs, very moist, grey moitting CL - Clay, medium brown, saturated, high plasticity, NPO, 5-15% silt, 63-65% city Total depith = 24 feet bgs 30 -	Depth (feet)	Lithologic	Description/Remarks	PID/(PPM)	Soil Class'n	Depth (feet)	Blows/ft.	Interva Samp	al le	
Augeas Corporation Site Address: 7900 Dublin Ave., Dublin, CA	4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 28 - 28 - 28 - 28 - 28 - 28	SW - Gravelly sand, light 20-30% fine to coarse of 5-10% silt. CL - Silty clay w/ some of to medium plasticity, Fercoarse sand, 15-25% silt. SW - Gravelly sand, same CL - Silty clay w/ some of SW - Gravelly sand, same CL - Silty clay w/ some of SW - Gravelly sand, same CL - Silty clay w/ some of SW - Gravelly sand, same CL - Silty clay w/ some silt, lightly plasticity, NPO, 0-10 CL - Silty clay, medium bondon, 0-10% fine sand, 20 SW - Gravelly sand, same CL - Silty clay, same as a CL - Silty clay, same as a CH - Clay, medium brown, silt, 85-95% clay	to medium brown, damp, FeO3, NPO, pravel, 65-75% fine to coarse sand, aravel, light to medium brown, damp, low 03, NPO, 5-15% fine gravel, 0-10% fine to lt, 60-70% clay e as at 3"bgs ravel, same as at 1.5' bgs, moist e as at 5.5'bgs, damp to moist ravel, same as at 6' ght to medium brown, moist, medium to 0% fine sand, 5-15% silt, 80-90% clay cown, moist, medium plasticity, FeO3, 5-35% silt, 65-75% clay as at 8.5'bgs, moist t 13'bgs, very moist, grey mottling		sw CL sw CL CH CL	2 - 4 - 6 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 28 - 28 - 28 - 28 - 28 - 28		GP-2@4' GP-2@8'		
	Augea	s Corporatio	n Site Address: 7900	l Du	blin	Ave.	, Dub	lin, CA	<u></u>	

Project: 7900 Dublin Ave., Duten, CA						1.D	GP-3	Paç	ge: 1 of 1
Drilling	Agency: ECA	Drilling Method: Geoprobe		Da	te St	arted:	2/21/03	Dat	e Finished: 2/21/03
Logged	By: JM	Samples: 6		Co	mpletio	on Dep	oth: 24'	Initia	al Water Depth: 19.72
Depth (feet)	Lithologic	Description/Remarks	Description/Remarks		Depth (feet)	Blows/ft.	Sample Interva Samp Numb	al le	Well Construction
2 -		alt at surface to medium brown, damp, FeO3, NPO, gravel, 65-75% fine to coarse sand,		sw	2 -				
4 -		n to ɗark brown, damp, low plasticity, sand, 20-30% silt, 65-75% clay		ML	4 -		GP-3@4	.	
6 -	ML - Clayey silt, same a	s above, w/ some gravel		ML	6 -			:	
8 -	SW - Gravelly sand, sam			sw ML	8 -		GP-3@8'		
10 -		edium brown, moist, medium plasticity, sand, 25-35% silt, 65-75% clay		аL	12-		GP-3@12		·
1		ght to medium brown, moist, medium to 0% fine sand, 5-15% silt, 80-90% clay		ŒН	14-		GP-3 @1 6′		
16 -	SW - Gravelly sand, same	as at 8.5'bgs, moist		sw	16-		GP-39/16		
20 -		avel, medium grey, very moist, low 3, NPO, 5-15% fine gravel, 0-10% !5% silt, 60-70% clay		CL.	20-	Y	GP-3@20'		
	CH - Clay, medium brown, plasticity, NPO, 5-15% si	grey mottling, saturated, medium lt, 85-95% clay		ан	22-	Andrews Control	GP-3@24'		
	Total depth = 24 feet bgs						:		
26 -					26-				
28 -		,			28-		,		
30 -					30-				
Augeas	s Corporatio	n Site Address: 7900	Du	blin	Ave.,	Dub	lin, CA		
	-						•		

Project: 7900 Dublin Ave., Dun, CA					ring	1.0	GP-4	Page: 1 of 1
Drilling	Agency: ECA	Drilling Method: Geoprobe		Da	te St	arted:	2/21/03	Date Finished: 2/21/0
Logged	By: JM	Samples: 6		Coi	mpleti	on De	oth: 24'	Initial Water Depth: 19.8
Depth (feet)	Lithologic	Description/Remarks	PID/(PPM)	Soil Class'n	Depth (feet)	Blows/ft.	Sample Interva Sampl Numb	Well Construction
2 -		It at surface to medium brown, damp, FeO3, NPO, gravel, 65-75% fine to coarse sand,		sw	2 -			
4	ML - Clayey silt, medium Fe03, NPO, 5-15% fine	to dark brown, damp, low plasticity, sand, 20-30% silt, 65-75% clay		ML	4 -		GP-4@4'	
6	ML - Clayey silt, same as	above, moist		ML	6 -			
10 -					8 -		GP-4@8'	
		dium brown, moist, low to medium 10% fine sand, 25-35% silt, 65-75% clay		CL.	12-		GP-4@12'	
		ght to medium brown, moist, medium to % fine sand, 5-15% silt, 80-90% clay		ан	14-		GP-4@16'	
18		t 9'bgs, moist to very moist as at 3"bgs, moist to very moist		CL	18-			
20 -	ML - Clayey silt, same as	at 2'bgs, w/some gravel, very moist		ML ;	20	Y	GP-4@20'	
22 - (CL - Silty clay, same as at	16'bgs, grey mottling, saturated		CL 2	22-			
24	Total depth = 24 feet bgs			- 2	4		GP-4@24'	
26 -				2	6-			
28 -				2	8-			
30 -				3	0-			
ugeas	S Corporation	Site Address: 7900	Dub	olin A	\ve	Dub	in CA	

Project	t: 7900 Dublin A	Ave., Dun, CA		В	oring	I.D.	GF	P-5	Page	e: 1 of 1	
Drilling	Agency: ECA	Drilling Method: Geoprob	Ө	Da	ate St	arted:	2/2	21/03	Date	Finished:	2/21/03
Logged	By: JM	Samples: 6		Ce	mpleti	on De	pth:	24'	initial	Water Dep	th: 19.8
Depth (feet)	Lithologic	Description/Remarks	PID/(PPM)	Soil Class'n	Depth (feet)	Blows/ft.	II 	ample nterva Sample Numbe	e (Well Constru	ction
16 -	20-30% fine to coarse of 5-10% silt ML - Clayey silt, medium Fe03, NPO, 5-15% fine CL - Silty clay w/ some of moist, low to medium pla 0-10% fine to coarse sa SW - Gravelly sand, samm CL - Silty clay w/ some of Silt, 80-90% clay CL - Silty clay w/ some of Silt, 80-90% clay CL - Silty clay w/ some of CL - Silty clay w/ some of Silt, 80-90% clay CL - Silty clay w/ some of Silt, 80-90% clay CL - Silty clay w/ some of Silt, 80-90% clay CL - Silty clay w/ some of Silt, 80-90% clay CL - Silty clay w/ some of Silt, 80-90% clay CL - Silty clay w/ some of Silt, 80-90% clay	to medium brown, damp, FeO3, NPO, gravel, 65-75% fine to coarse sand, at to dark brown, damp, low plasticity, sand, 20-30% silt, 65-75% clay gravel, light to medium brown, damp to asticity, FeO3, NPO, 5-15% fine gravel, and, 15-25% silt, 60-70% clay e as at 3"bgs			2 - 4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 3			GP-5@4' GP-5@8'			
ugea	s Corporatio	n Site Address: 7900) Du	blin	Ave.	, Dut	olin,	, CA			

Project: 7900 Dublin	Ave., Delin, CA		Вс	oring	i.bx	GP-6	Pa	ge: 1 of 1
Drilling Agency: ECA	Drilling Method: Geoprobe		Da	ite St	arted:	2/21/03	Da	te Finished: 2/21/03
Logged By: JM	Samples: 5		Со	mpletio	on Dej	oth: 25'	Initi	al Water Depth: 19.85
(feet) Lithologic	Description/Remarks	PID/(PPM)	Soil Class'n	Depth (feet)	Blows/ft.	Sample Interva Sampl Numb	ai le	Well Construction
low to medium plasticity, fine to coarse sand, 15- 8	gravel, light to medium brown, moist, Fe03, NPO, 5-15% fine gravel, 0-10% 25% silt, 60-70% clay bove ht to medium brown, moist, medium to fine sand, 5-15% silt, 80-90% clay		CL CL 2	2 - 4 - 6 - 8 - 10- 12- 14- 16- 18-	ig .	GP-6@5' GP-6@15' GP-6@20'		
ugeas Corporation	Site Address: 7900	Dub		o-l	Dubl	in, CA		