Khatri, Paresh, Env. Health

From:	Phillips, Hollis [Hollis.Phillips@arcadis-us.com]
Sent:	Wednesday, November 25, 2009 6:35 AM
То:	Khatri, Paresh, Env. Health
Subject:	Site 11120
Attachments:	CLOS_L_1999-03-15[1].pdf

Paresh:

It appears Station 11120 is closed. Can you confirm this based on the attached letter.

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ALAMEDA COUNTY HEALTH CARE SERVICES



AGENCY DAVID J. KEARS, Agency Director

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

StID 2095

March 15, 1999

Mr. Scott Hooton BP Oil 295 SW 41st Street Renton, WA 98055-4931

Re: Fuel Leak Site Case Closure for BP Station No. 11120, 6400 Dublin Blvd, Dublin, CA

Dear Mr. Hooton:

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 Protection Division 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 2,700ppm TPH as gasoline and 3.2ppm benzene exists in soil beneath the site;
- up to 520ppb TPHg and 0.52ppb benzene exists in groundwater beneath the site; and,
- a site safety plan must be prepared for construction workers in the event of excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.

If you have any questions, please contact me at (510) 567-6762.

0~37

eva chu Hazardous Materials Specialist

enlosures: 1. Case Closure Letter

- 2. Case Closure Summary
- c: James Sorenson, Alameda Planning Dept, QIC 50506 files (bpdublin1-7)

🕊 TAMEDA COUNTY HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director

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

REMEDIAL ACTION COMPLETION CERTIFICATION

AGENCY

StID 2095 - 6400 Dublin Blvd, Dublin, CA 94568, CA (1-12K, 1-10K, 1-8K and 1-500 gallon tanks removed on April 3, 1996)

March 15, 1999

Mr. Scott Hooton **BP Oil** 295 SW 41st Street Renton, WA 98055-4931

Dear Mr. Hooton:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks 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, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

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

Sincerely,

Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection Chuck Headlee, RWQCB Dave Deaner, SWRCB Bill McCammon, Alameda County Fire Department, QIC 41401 files-ec (bpdublin-6)

C. VIDOUSTENTAL PROTECTION CASE CLOSURE SUMMARY, BCD 18 PM 3: 46 **QUALITY CONTROL BOARD** California regional water Leaking Underground Fuel Storage Tank Program AGENCY INFORMATION Date: October 30, 1998 DEC 1 4 1998 Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700 Responsible staff person: Eva Chu Title: Hazardous Materials Spec. **II. CASE INFORMATION** Site facility name: BP Station No. 11120 Site facility address: 6400 Dublin Blvd, Dublin, CA 94568 RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 2095 SWEEPS No: N/A URF filing date: 2/2/93 **Responsible Parties:** Addresses: **Phone Numbers:**

Rb# 01-\$556

Scott Hooton BO Oil		5 SW 41 st Street nton, WA 98055-4931	425/251-0667
<u>Tank Size in</u> No: gal.:	Contents:	<u>Closed in-place</u> or removed?:	<u>Date:</u>
1 12,000 2 10,000	Gasoline "	Removed	4/3/96
3 8,000	"		11
4 500	Waste Oil	"	11

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

I.

Cause and type of release: Unknown Site characterization complete? YES Date approved by oversight agency: 10/19/98 Monitoring Wells installed? Yes Number: 7 No, but adequate. Well MW-3 is screened from 14' to 19'bgs Proper screened interval? Lowest depth: 8.43' in MW-3 Highest GW depth below ground surface: 4.39' Flow direction: SE Most sensitive current use: Commercial Are drinking water wells affected? No Aquifer name: Dublin Subbasin Nearest affected SW name: NA Is surface water affected? No Off-site beneficial use impacts (addresses/locations): None Report(s) on file? YES Where is report(s) filed? Alameda County 1131 Harbor Bay Pkwy Alameda, CA 94502

Treatment and Disposal of Affected Material:

۰. A

<u>Material</u>	<u>Amount</u> (include units)	<u>Action (Treatment</u> or Disposal w/destination)	<u>Date</u>
Tank Soil	4 USTs 1,370 cy	Disposed at BFI Landfill, Livermore	Apr-June 1996

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant TPH (Gas) TPH (Diesel) Benzene Toluene Ethylbenzene Xylenes MTBE	Soil (pp	om)	Water (ppb)			
	Before ¹	After ²	Before ³	After ⁴		
TPH (Gas)	2,700		14,000	520		
TPH (Diesel)	570		6,200	ND		
Benzene	3.2		500	0.52		
Toluene	21		1,600	ND		
Ethylbenzene	34		280	ND		
Xylenes	180		2,100	ND		
•	NA		37,000 ⁵	ND ⁶		
Other Tetrachloroethe	ne (PCE) 0.0076		6.7	ND		

Other Tetrachloroethene (PCE) 0.0076

NOTE: 1. soil samples collected at time of UST removal at 10'bgs, 4/96 (PCE from waste oil pit)

no overexcavation performed at the site after the tanks were removed 2.

- 3. grab groundwater sample collected from gasoline tank pit at time of removal, 4/96 (PCE from gasoline pit)
- most recent groundwater sampling results, 6/98 (PCE conc. from well MW-1 in 10/92) 4.
- maximum concentration measured using Method 8020 from well MW-3 in 9/95 5.
- results using EPA Method 8260, 6/98 (see attached Table 7) 6.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the

Regional Board Basin Plan?

Does completed corrective action protect potential beneficial uses per the

Regional Board Basin Plan?

Does corrective action protect public health for current land use? YES

Site management requirements: A site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination. Should corrective action be reviewed if land use changes? YES, hydrocarbon contamination in soil must be addressed/re-evaluated if site use changes or a building is to be constructed over the area of residual contamination.

Monitoring wells Decommissioned: No, pending site closure

Number Retained: 7. MW-1 is inaccessible (building built over it) Number Decommissioned: 0 List enforcement actions taken: None

List enforcement actions rescinded: NA

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu
Signature: por
Reviewed by
Name: Larry Seto
Signature: -
Name: Thomas Peacock
Signature: Unmas Learon
VI. RWQCB NOTIFICATION
Date Submitted to RB: 11/20(G ¥
RWQCB Staff Name: Chuck Headlee
Signature: Quel Here 100-

Title: Haz Mat Specialist

Date: 11/20(98

Title: Senior Haz Mat Specialist

Date: 10-30-98

Title: Supervisor

11-9-98 Date:

RB Response: concur

Title: EG

Date: 12/14/98

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is currently an active gasoline service station.

In October 1992 four exploratory borings (B-1 through B-4) were drilled at the site and converted into groundwater monitoring wells MW-1 through MW-4, respectively. Groundwater was first encountered at 16' to 17' bgs, stabilizing at ~9' bgs. Groundwater appeared to be under confined conditions, thus, the wells were screened from ~14' to 19'bgs. Two soil samples were collected from each boring and analyzed for TPHg, TPHd, BTEX, TOG, and HVOC. Groundwater was analyzed for TPHg TPHd, and BTEX. Water from well MW-1, near the used oil UST, was also analyzed for HVOC and TOG. Hydrocarbon constituents were identified in soil and groundwater from borings B-3/MW-3 and B-4/MW-4. (See Figs 1, 2, and Tables 1, 2)

In April 1993 three additional groundwater monitoring wells, MW-5 through MW-7, were drilled to further define the extent of soil and groundwater contamination. In addition, an exploratory boring, LB-1, was drilled and logged continuously from 9.5' to 30.5'bgs to better characterize the first water bearing zone. No significant levels of hydrocarbons were detected in soil and groundwater from these borings. Groundwater was initially encountered at ~16.5' to 20.5'bgs and stabilized at ~5'bgs. A second water bearing zone was encountered in boring LB-1 at 29'bgs. A step draw-down aquifer test was performed on well MW-6. The results of the draw-down test indicate that the maximum sustainable yield from MW-6 is approximately 2.0 gpm. (See Fig 3 and Table 3)

Quarterly groundwater monitoring began in October 1992 through December 1995. There appeared to be an increase in TPHg concentration in well MW-3 beginning in June 1994 (from ~2,000ppb to 8,000 to 18,000ppb. MTBE analysis commenced in September 1995, identifying 37,000ppb. (See Table 6)

In April 1996 four USTs (1-12K, 1-10K, 1-8K gallon gasoline USTs and 1-550 gallon waste oil UST) were removed. Approximately 160' of piping and two hydraulic lifts and a wastewater clarifier were also removed. New USTs were installed in a newly excavated pit. Groundwater was in the main gasoline pit at ~10'bgs (suggesting that groundwater may not be confined, rather, it may be semi-confined or in a zone of slow recharge). Discolored soils and hydrocarbon odors were noted along the southern wall of the UST pit. Stained soils were also observed beneath the product line piping trench and fuel islands. Sidewall soil samples (S-1 through S-6 and S-13) were collected from the gasoline pit at ~10'bgs. Soil samples were also collected at ~3'bgs beneath the piping trench and dispensers (S-7 through S-12 and S-16). And soil samples S-18 and S-19 were collected from below the waste oil UST at ~8'bgs. (See Fig 4)

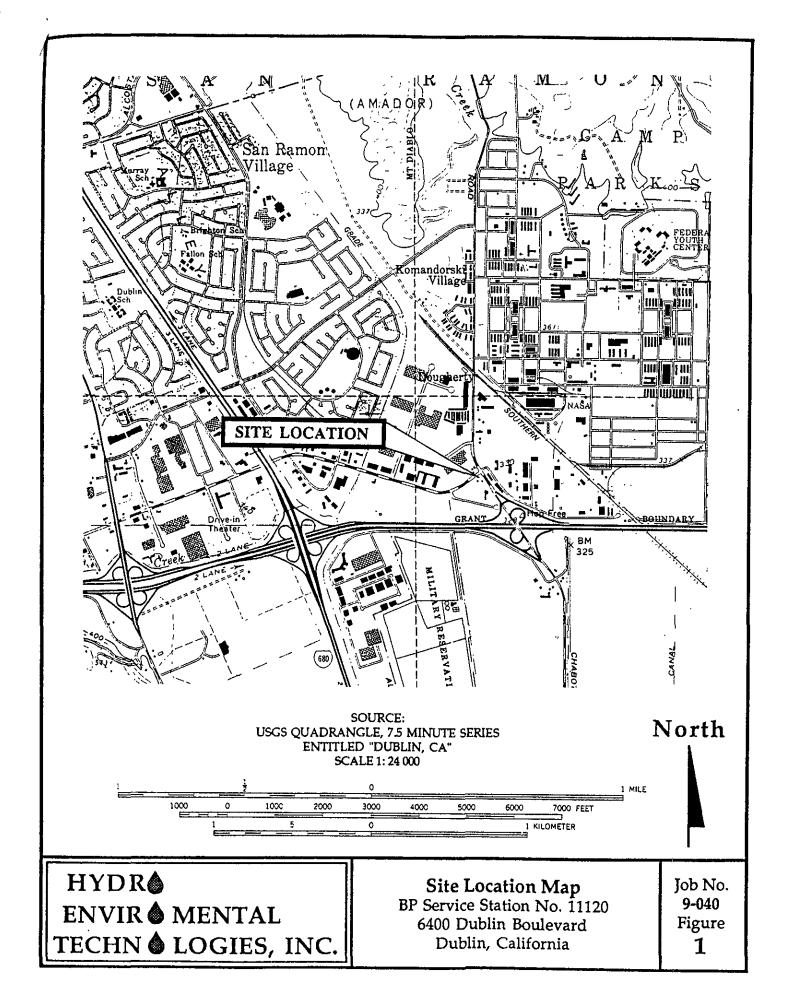
Soil samples from the main UST excavation contained up to 2,700 ppm TPHg, 3.2ppm benzene and 570 ppm TPHd. A grab groundwater sample contained 14,000ppb TPHg, 500ppb benzene, and 6,200ppb TPHd. Low levels of PCE were also detected in soil and groundwater. The former gasoline pit and piping trenches were not overexcavated. Residual hydrocarbons and PCE in soil, however, should not pose a risk to human health under current use scenario (active gasoline service station). (See Tables 4 and 5)

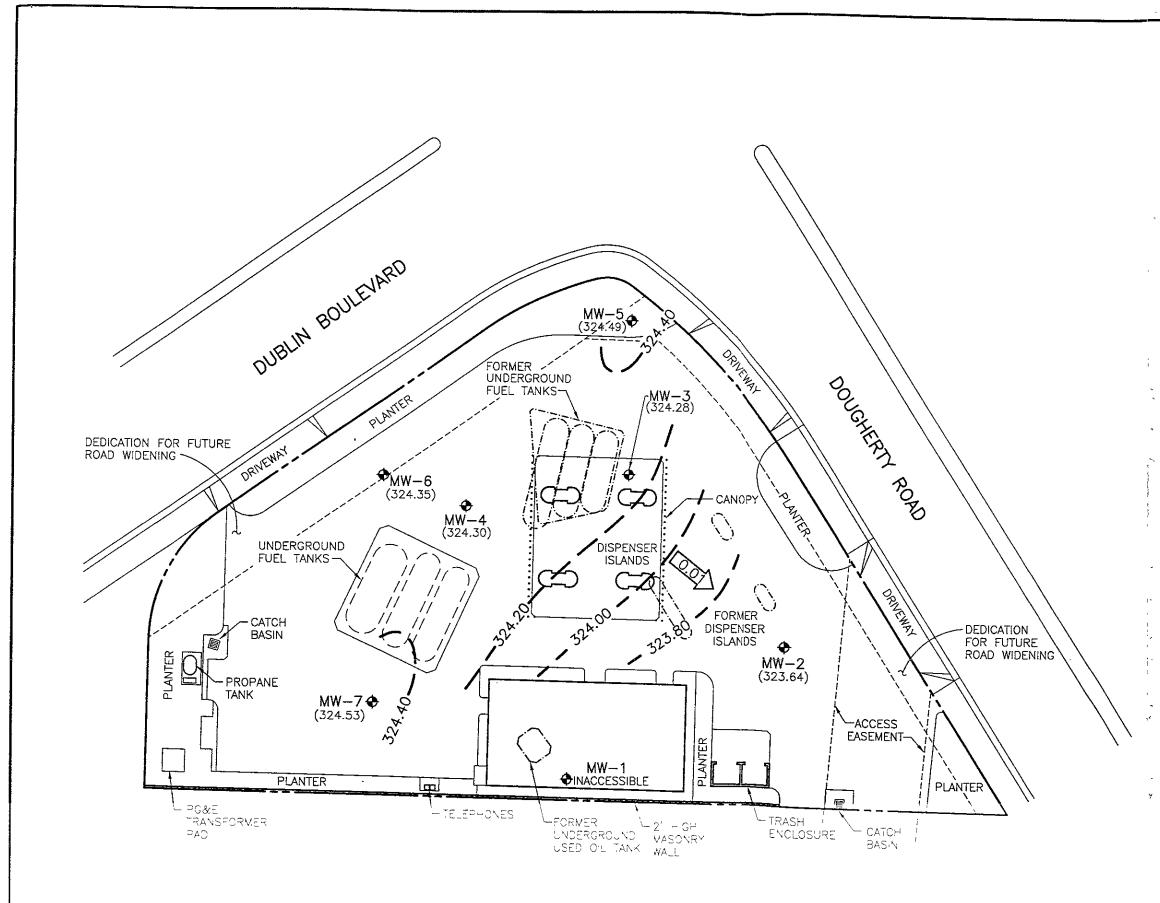
Groundwater has been sampled from October 1992 to June 1998. Hydrocarbon concentrations have declined over the years, probably due to natural bioattenuation. Current levels do not pose a risk to human health or the environment. Continued monitoring is not warranted.

In summary, case closure is recommended because:

- o the leak and ongoing sources have been removed;
- o the site has been adequately characterized;
- o the dissolved plume is not migrating;
- o no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- o the site presents no significant risk to human health or the environment.

bpdublin1-4





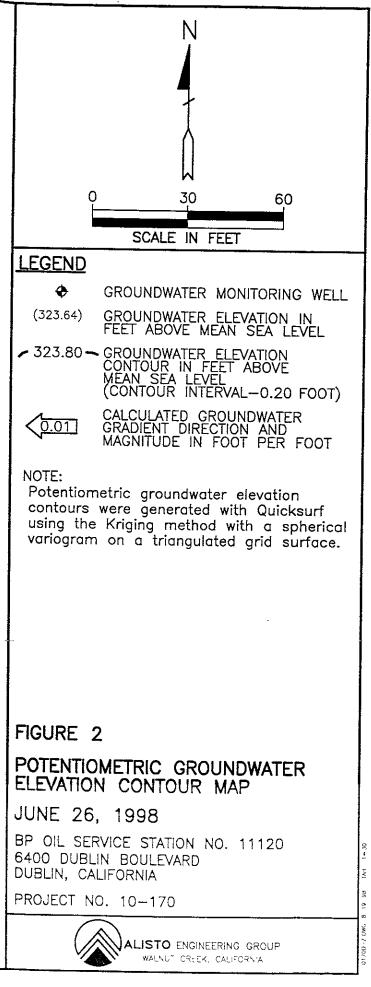


Table 1

SOIL SAMPLES SUMMARY OF ANALYTICAL RESULTS

BP Service Station No. 11120 6400 Dublin Boulevard Dublin, California

Sample	TPHg	TPHd	B	T	E	X	HVO	TOG
Description	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
B-1-5.5' B-1-10.5' B-2-5.5' B-2-10.5' B-3-5.5' B-3-10.5' B-4-5.5' B-4-10.5' MDL	ND ND ND 10 22 350 2.9 1	ND ND ND ND 140 7.9 5	ND ND ND 0.069 0.043 0.80 0.030 0.005	ND ND ND 0.58 0.26 7.9 0.11 0.005	ND ND ND 0.23 0.41 5.8 0.10 0.005	ND ND ND 1.8 1.8 31 0.44 0.005	ND ND ND ND ND ND ND ND 0.005- 0.02	ND ND ND ND 380 63 50

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015

- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Total Xylenes

BTEX by EPA Method 8020

HVO = Halogenated volatile organics by EPA Method 8010 TOG = Total oil and grease by Standard Method 5520

NT = Not tested

ND = Not detected in concentrations exceeding laboratory method detection limits MDL = Laboratory method detection limits for all analyses where results are ND

Table 2

GROUND WATER SAMPLES SUMMARY OF ANALYTICAL RESULTS

BP Service Station No. 11120 6400 Dublin Boulevard Dublin, California

Sample	TPHg	TPHd	B	T	E	X	HVO	TOG	
Description	(ppb)	(ppb)							
MW-1	ND	ND							
MW-2	ND	ND	ND	ND	ND	ND	NT	NT	
MW-3	210	ND	3.0	0.7	0.9	30	NT	NT	
MW-4	2,300	190	23	54	50	320	NT	NT	
MDL	50	50	0.5	0.5	0.5	0.5	0.5-2.0	5,000	

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015

B = Benzene

f

- T = Toluene
- E = Ethylbenzene

X = Total Xylenes

BTEX by EPA Method 8020

HVO = Halogenated volatile organics by EPA Method 8010 TOG = Total oil and grease by Standard Method 5520

NT = Not tested

ND = Not detected in concentrations exceeding laboratory method detection limits MDL = Laboratory method detection limits for all analyses where results are ND

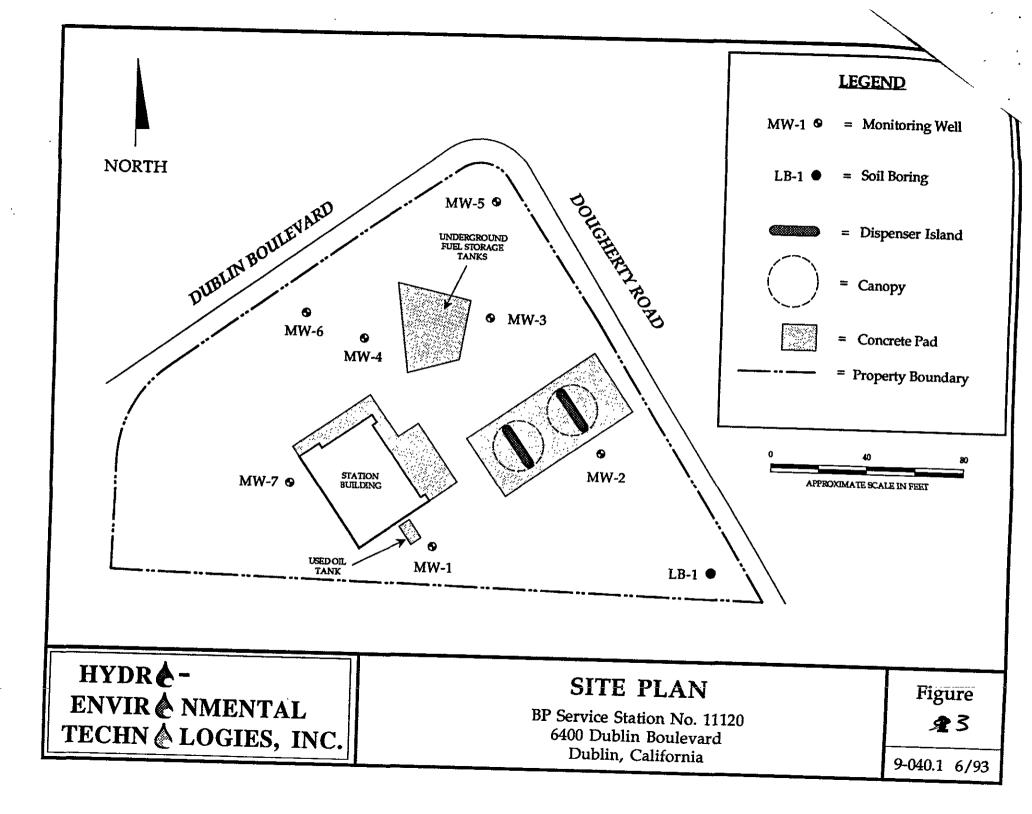


Table ? 3Summary of Soil Sample Analytical ResultsBP Service Station No. 111206400 Dublin BoulevardDublin, California

Sample	Date	TPHd (ppm)	TPHg (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)
MW-5-5.5'	4/6/93	ND<5.0	ND<1.0	0.017	ND<0.005	ND<0.005	ND<0.005
MW-5-15.5'	4/6/93	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-6-5.5'	4/6/93	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-6-10.5'	4/6/93	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-7-5.5'	4/6/93	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-7-15.5'	4/6/93	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005

Notes:

Sample:	Soil boring designation and soil sample collection depth (ft)
Date:	Soil sample collection date
TPHd :	Total petroleum hydrocarbons as diesel by EPA Method 8015 (modified)
TPHg:	Total petroleum hydrocarbons as gasoline by EPA Method 8015 (modified)
BTEX :	Benzene, Toluene, Ethylbenzene and total Xylenes by EPA Method 8020 (modified)
ND:	Not detected in concentrations exceeding the indicated laboratory method detection limit

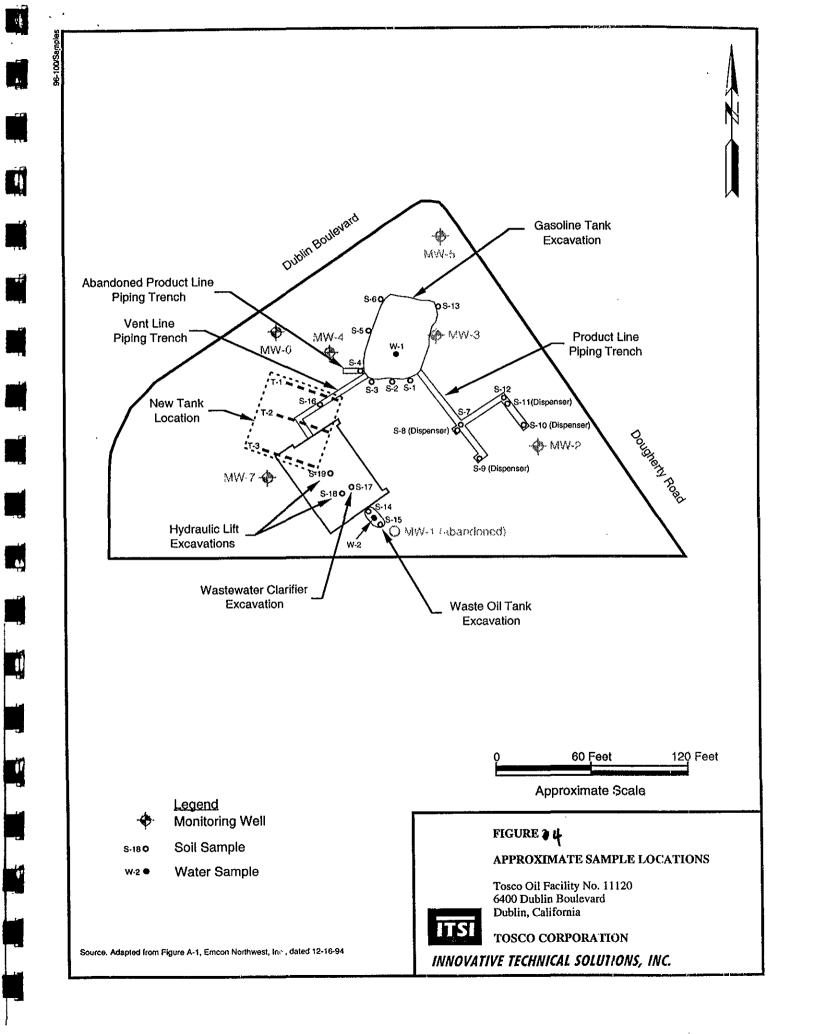


TABLE 4

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SUMMARY OF LABORATORY RESULTS FOR CONFIRMATION SAMPLES TOSCO FACILITY NO. 11120 DUBLIN, CALIFORNIA

A. SOILS

Sample Number	Depth (feet)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	TPHd (mg/kg)	TPHh (mg/kg)	O&G (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Pb (mg/kg)	Ni (mg/kg)	Zn (mg/kg
Gasoline tank	, piping and	l dispenser	samples											
S-1	10	. 14	0.12	0.045	0.12	0.14	1.5					3.5		
S-2.	10	2,700	× 3.2	21	34	180	570				A. Sorrey	<2.5		
S-3	10	1,100	0.90	11	11	71	140					2.6		
S-4	10	470	2.1	<0.25	10	13	34					<2.5		State Artes ang
S-5	10	1,800	<5	<5	11	97	480					<2.5		
S-6	10	40	0.11	0.086	0.89	0.44	1.6			e ar e san de Se de constantes		<2.5		
S-7	3	42	0.68	0.61	1.4	8.2	<10				Panaz	4.8		en e
S-8	3	<1.0	0.059	0.0074	0.011	0.34	<10					5.5		
S-9	3	4	<0.005	<0.005	0.073	0.44	75					5.3		
S-10	3	11	0.015	0.26	0.15	1.8	1.0	a Setting				7.7		
S-11	3	14	0.032	<0.012	0.25	0.21	2.1	- Charles and				9.7		
S-12	3	23	0.14	0.21	0.52	2.8	3.1		-			<2.5		
S-13	10	610	1.2	5.4	9.3	58	25		10000			<2.5		
S-16	3	20	0.18	0.0092	0.37	2.1	56					21		
Waste oil tank	samples								<u></u>		8.730.87888993319886875			
S-14 ¹²	8	<1.0	<0.005	<0.005	<0.005	<0.005	1.2		<50	<0.5	22	<1.0	28	28
S-15 ^{2.3}	8	<1.0	<0.005	<0.005	<0.005	<0.005	<1.0		<50	<0.5	25	<1.0	33	30

S 4

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TABLE4 (Continued)

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SUMMARY OF LABORATORY RESULTS FOR CONFIRMATION SAMPLES TOSCO FACILITY NO. 11120 DUBLIN, CALIFORNIA

Sample Number	Depth (feet)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	TPHd (mg/kg)	TPHh (mg/kg)	O&G (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Pb (mg/kg)	Ni (mg/kg)	Zn (mg/kg)
Wastewater cl	arifier samp	oles					*			(6/	((11167 KG)	(IIIg/Kg)	(1112/Kg)
S-17 ^{2,3}	4	<1.0	<0.005	<0.005	<0.005	<0.005	<1.0	· · · · ·	<50	-0.5				
Hydraulic hois	t samples									<0.5	37	11	90	73
S-18	8	i de la compañía de la						<10				int filming	and the Contract over	
S-19	8	1.515						<10						
New tank loca	tion sample	s	2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 -	10x12.4449019 ("0x57, 3*)	<u>610 - 6086889</u> 393		1999 <u>(</u> 1979) (_						<u>n de la comp</u>	201 7
T-1 (a-d)	4&8	<1.0	0.019	<0.005	<0.005	0.015	<1.0			<0.5		.1.0	- <u></u>	
T-2 (a-d)	4&8	<1.0	<0.005	<0.005	<0.005	<0.005	<1.0			<0.5	24	<1.0	34	31
T-3 (a-d)	4&8	<1.0	<0.005	<0.005	<0.005	<0.005	<1.0				19	<1.0	23	26
Stockpile samp	oles								20.00094.2.4	<0.5	19	<1.0	28	28
SP-1 ^{2,4,5} (a-d)	-	<1.0	<0.005	<0.005	<0.005	0.0068	67 ⁶			-0.5				
SP-2 (a-d)	-	6.8	<0.005	0.012	0.037	0.22		<u>en anderen</u> Victoria de las	<u>le de la c</u> Note de la c	<0.5	29	<1.0	34 -	45
SP-2 (e-h)	-	30	0.0061	0.047	0.27	1.8	<u>na ang ang ang ang ang ang ang ang ang a</u>					<2.5	<u>199</u> 269	
SP-2 (i-l)	-	22	0.027	0.11	0.40	2.0						<2.5		1050905.4 2000
SP-2 (m-p)	_	<1.0	<0.005	<0.005	<0.005	0.0062						<2.5		
SP-2 (q-t)	-	<1.0	<0.005	<0.005	<0.005	<0.005						<2.5		
				-0.000		~0.00J						4.4		

TABLE 4 (Continued)

SUMMARY OF LABORATORY RESULTS FOR CONFIRMATION SAMPLES **TOSCO FACILITY NO. 11120** DUBLIN, CALIFORNIA

B. GROUNDWATER

Sample Number	Depth (feet)	TPHg (µg/l)	B (µg/l)	Τ (µg/l)	E (µg/l)	X (µg/l)	TPHd (µg/l)	TPHh (µg/l)	O&G (µg/l)	Cu (µg/l)	Cr (µg/l)	Pb (µg/l)	Ni (µg/l)	Zn (μg/l)
W-1 ⁷	10	14,000	500	1,600	280	2,100	6,200	nu i li	<5.0	<0.01	0.015	<0.02	0.046	·0.071
W-2 ³	7	130	<0.5	2.6	2.5	24	130		<5.0	<0.01	<0.01	<0.02	<0.02	0.033

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¹ Concentration of 7.6 µg/kg tetrachloroethene reported by EPA Method 8010.
 ² No compounds reportedly detected by EPA Method 8270.
 ³ No compounds reportedly detected by EPA Method 8010.
 ⁴ No compounds reportedly detected by EPA Method 8240.
 ⁵ CAM 17 metals analyzed for this sample, no significant concentrations reported.

⁶ Quantified as motor oil (C16 +)

⁷ Concentration of 6.7 µg/l tetrachloroethene reported by EPA Method 8010

SNOCS were also identified in W-1 and W-2 (water)



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

Table 5 (415) 364-9600 (510) 988-9600 (916) 921-9600

FÁX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Innovative Technical Solutions, Inc.	Client Project ID:	Tosco, 6400 Dublin Blvd	., Dublin	Sampled:	Apr 3,	1996
2855 Mitchell Drive, Suite 118	Sample Descript:				Apr 3,	
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8010		Analyzed:	Apr 4,	1996
	Lab Number:	604-0331			Apr 5,	
é kerkeletőnelőt tereszt minikula		activities and the set of the	The maximum states		1.44 1.44	Sec. 11

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg		Sample Results µg/kg
Bromodichloromethane	5.0		N.D.
Bromoform	5.0		N.D.
Bromomethane	10		N.D.
Carbon tetrachloride	5.0		N.D.
Chlorobenzene	5.0		N.D.
Chloroethane	10		N.D.
2-Chloroethylvinyl ether	10		N.D.
Chloroform	5.0		N.D.
Chloromethane	10		N.D.
Dibromochloromethane	5.0		N.D.
1,2-Dichlorobenzene	5.0	•••••••••••••••••••••••••••••••••••••••	N.D.
1,3-Dichlorobenzene	5.0		N.D.
1,4-Dichlorobenzene	5.0		N.D.
1,1-Dichloroethane	5.0	••••••	N.D.
1,2-Dichloroethane	5.0	••••••••••••••••	N.D.
1,1-Dichloroethene	5.0	•••••••••••	N.D.
cis-1,2-Dichloroethene	5.0		N.D.
trans-1,2-Dichloroethene	5.0		N.D.
1,2-Dichloropropane	5.0		N.D.
cis-1,3-Dichloropropene	5.0		N.D.
trans-1,3-Dichloropropene	5.0	••••••	N.D.
Methylene chloride	50		N.D.
1,1,2,2-Tetrachloroethane	5.0		N.D.
Tetrachloroethene	5.0		
1,1,1-Trichloroethane	5.0		N.D.
1,1,2-Trichloroethane	5.0	•••••••	N.D.
Trichloroethene	5.0		N.D.
Trichlorofluoromethane	5.0	•••••••••••••••••••••••••••••••••••••••	N.D.
Vinyl chloride	10	*****	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

For Alan B. Kemp

Project Manager

Sequoia
Analytical

680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(nd.

 (415)
 364-9600
 FAX

 (510)
 988-9600
 FAX

 (916)
 921-9600
 FAX

Table 5

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

2855 Mitchell Drive, Suite 118 Walnut Creek, CA 94598	Sample Descript: Analysis Method:	Soil, S-15	Analyzed: Reported	Apr 3, 1996 Apr 3, 1996 Apr 4, 1996 Apr 5, 1996
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HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg		Sample Results µg/kg
Bromodichloromethane	5.0		N.D.
Bromoform	5.0	·····	N.D.
Bromomethane	10		N.D. ,
Carbon tetrachloride	5.0		N.D.
Chlorobenzene	5.0	•••••	N.D.
Chloroethane	10		N.D
2-Chloroethylvinyl ether	10		N.D.
Chloroform		••••••	N.D.
Chloromethane			N.D.
Dibromochloromethane		•••••	N.D.
1.2-Dichlorobenzene		•••••	N.D.
1.3-Dichlorobenzene		********	N.D
1.4-Dichlorobenzene.			N.D
1.1-Dichloroethane		•••••	ND.
1,2-Dichloroethane	~ ~		N.D.
1,1-Dichloroethene			N.D.
cis-1.2-Dichloroethene			N.D
trans-1,2-Dichloroethene			N.D.
1,2-Dichloropropane			N.D.
cis-1,3-Dichloropropene			N.D.
trans-1,3-Dichloropropene			N.D.
Methylene chloride			N.D.
1,1,2,2-Tetrachloroethane	•		N.D
Tetrachloroethene.			N.D.
1,1,1-Trichloroethane	• • • •		N.D.
1,1,2-Trichloroethane			N.D.
Trichloroethene.			N.D.
Trichlorofluoromethane	• • • •		N.D.
Vinyl chloride	•		N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

LAlan/B. Kemp

Project Manager

Contr. Table 5

(415) 364-9600

(510) 988-9600

(916) 921-9600



680 Chesapeake Drive 404 N Wiget Lane 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Innovative Technical Solutions, Inc. 2855 Mitchell Drive, Suite 118 Walnut Creek, CA 94598 Attention: Jeff Hess	Sample Descript: Analysis Method:	Water, W-1	Sampled: Received: Analyzed: Reported:	Apr 3, 1996 Apr 3, 1996 Apr 4, 1996 Apr 5, 1996
 A state to an a state of the st	1838-6890 (1993) 1838-6890 (1993)	n okazaran data konzertak konzertak barran biri biri biri biri biri biri biri bir	a na ser a ser	metals in a spin state

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L		Sample Results µg/L
Bromodichloromethane	5.0		N.D.
Bromoform	5.0	•••••••	N.D.
Bromomethane	10	••••••	N.D.
Carbon tetrachloride	5.0		N.D.
Chlorobenzene	5.0		N.D.
Chloroethane	10		ND.
2-Chloroethylvinyl ether	10	•••••	N.D.
Chloroform	5.0		N.D.
Chloromethane	10		N.D.
Dibromochloromethane	5.0	••••••	N.D.
1,3-Dichlorobenzene	5.0		N.D.
1,4-Dichlorobenzene	5.0	••••••	N.D.
1,2-Dichlorobenzene	5.0		N.D.
1,1-Dichloroethane	5.0	•••••••••••••••••••••••••••••••••••••••	N.D.
1,2-Dichloroethane	5.0	•••••••••••••••••••••••••••••••••••••••	N.D.
1,1-Dichloroethene	5.0		N.D.
cis-1,2-Dichloroethene	5.0	••••••	N.D.
trans-1,2-Dichloroethene	5.0	·····	N.D.
1,2-Dichloropropane	5.0		N.D.
cis-1,3-Dichloropropene	5.0		N.D.
trans-1,3-Dichloropropene	5.0		N.D.
Methylene chloride	50		N.D.
1,1,2,2-Tetrachloroethane	5.0		N.D.
Tetrachloroethene	5.0		6.7
1,1,1-Trichloroethane	5.0		N.D.
1,1,2-Trichloroethane	5.0	••••••	N.D.
Trichloroethene	5.0	••••••	N.D.
Trichlorofluoromethane	5.0	••••••	N.D.
Vinyl chloride	10	•••••••••••••••••••••••••••••••••••••••	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

M. Alan/B. Kemp

Project Manager

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ALISTO PROJECT NO. 10-170

WELL ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1	(c)	10/27/92	328.96	8.19	320.77	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5		<u></u>	
MW-1		04/09/93	328.96	4.79	324.17	ND<50	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5		-	PACE
MW-1		08/25/93	328.96	6.85	322.11	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	_		PACE PACE
MW-1		11/22/93	328.96	7.38	321.58	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-1 MW-1		03/07/94 06/09/94	328.96	5.89	323.07	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5		4.3	PACE
MW-1		09/12/94	328.96	6.42	322.54	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0,5		8.8	PACE
MW-1		12/20/94	328.96 328.96	7.33	321.63	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0,5		7.8	PACE
MW-1		03/16/95	328.96	6.34	322.62				<u> </u>			-		
MW-1		06/28/95	328.96	4.37 5.35	324.59 323.61	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0		5.6	ATI
MW-1		09/06/95	328.96	5.35 6.44	322.52	 ND<50	_				-		—	
MW-1		12/22/95	328.96	6.04	322.92		340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.4	ATI
MW-1		08/20/96	328.96	5.65	323.31	_							-	_
MW-1		08/21/96	328.96			ND<50								
MW-1		10/31/96	328.96	5,99	322.97	₩0<>00	160	ND<0.5	ND<1 0	ND<1.0	ND<1.0	ND<10	6.8	SPL
MW-1	(d)	12/02/96	328.96	-				<u> </u>		-				
MW-1	(d)	06/26/98	328.96											
												-		
MW-2		10/27/92	328.50	7.64	320.86	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5			0405
MW-2		04/09/93	328.50	4.12	324.38	ND<50	80	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE PACE
MW-2		08/25/93	328.50	6.31	322.19	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-2		11/22/93	328.50	7.12	321.38	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5			PACE
MW-2		03/07/94	328.50	5.60	322.90	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5		4.3	PACE
MW-2		06/09/94	328,50	5.91	322.59	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5		8.2	PACE
MW-2		09/12/94	328.50	6.87	321.63	ND<50	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5		7.5	PACE
MW-2		12/20/94	328.50	5.86	322.64				_					
MW-2		03/16/95	328.50	3.77	324.73	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0		6.6	AΠ
MW-2		03/16/95	328.50	3.77	324.73	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0		6.6	ATI
MW-2		06/28/95	328.50	4.33	324.17									
MW-2 MW-2		09/06/95	328.50	5.85	322.65	ND<50	210	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.0	ATI
MW-2		12/22/95	328.50	5.50	323.00									
MW-2		08/20/96 08/21/96	328.50	5.07	323.43									
MW-2		10/31/96	328.50 328.50			ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	7.0	SPL
MW-2		12/02/96	328.50	5.44 5.50	323.06				<u></u>					
MW-2		03/27/97	328.50	5.50 4.61	323.00 323.89	 ND<50	 ND<100	 ND0-5	 NID -1 0					
MW-2		06/03/97	328.50	4.01 7.14	321.36	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.8	SPL
MW-2		09/16/97	328.50	6.10	322.40		ND<100	 ND<0.5	 ND<1.0	 ND<1.0	 ND<1 0	 NID -40		
MW-2		12/03/97	328.50	6.22	322.28			110/40.5	ND<1.0	ND<1.0		ND<10	5.2	SPL
MW-2		06/26/98	328.50	4.86	323.64	ND<50	-	ND<0.5	ND<1.0	ND<1 0	 ND<1.0	 ND<10	4.6	SPL

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ALISTO PROJECT NO. 10-170

WELL. ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	ТРН-D (ug/l)		B (ug/l)	Т (ug/l)	E (ug/l)	X (ug/î)	MTBE (ug/l)	<u>. </u>	DO (ppm)	LAB
MW-3		10/27/92	329,36	8.43	320.93											
MW-3		04/09/93	329.36	4.90	324.46	210	ND-50		3	0.7	0.9	30	_			PACE
MW-3		08/25/93	329.36	7.13	322.23	400 2000	260	·	6.1	ND<0.5	ND<0.5	ND<0.5	_		_	PACE
MW-3		11/22/93	329.36	7.60	321.76	1800	440		ND<0.5	ND<0.5	ND<0.5	ND<0.5	3300	(e)		PACE
MW-3		03/07/94	329.36	6.08	323.28	1300	360		ND<2.5	ND<2.5	ND<2.5	ND<2.5	910	(e)	_	PACE
MW-з		06/09/94	329.36	6.51	322.85	8500	5000		22	4.0	2.2	3.8	7200	(e)	3.7	PACE
QC-1	(f)	06/09/94	_				2600		25	8.3	0.5	15	13000	(e)	7.2	PACE
MW-3	.,	09/12/94	329.36	7.63	321.73	8800 2100			23	6.3	0.5	10	13000	(e)		PACE
QC-1	(f)	09/12/94	_				3200		ND<5.0	ND<5.0	8.8	20	3800	(e)	7.3	PACE
MW-3	.,	12/20/94	329.36	6.41	322.95	1800 18000			ND<50	ND<5.0	8.0	10	3900	(e)		PACE
QC-1	(f)	12/20/94	_			17000	9600		79	28	89	9.3		,	7.3	PACE
MW-3		03/16/95	329.36	4.39	324.97				79	33	80	ND<2.5	-			PACE
QC-1	(f)	03/16/95				6300 6300	7000		470	ND<5.0	210	9.9			5.5	ATI
MW-3		06/28/95	329.36	5.50	323.86	9000			500	ND<5.0	230	13				ATI
QC-1 ((f)	06/28/95				8800	3000	(g)	ND<10	ND<10	ND<10	ND<20			7.4	ATI
MW-3		09/06/95	329.36	6.66	322,70	10000		(g)	ND<10	ND<10	ND<10	ND<20				ATI
QC-1 ((f)	09/06/95			JZZ.70	9700	2800		ND<50	ND<50	ND<50	ND<100	37000		7.1	ATI
MW-3		12/22/95	329.36	6.31	323.05	9200			ND<50	ND<50	ND<50	ND<100	36000			ATI
MW-3		08/20/96	329.36	5.87	323.49	9200	2500		ND<50	ND<50	ND<50	ND<100	29000		6.7	ATI
MW-3		08/21/96	329.36			3700	1900		 ND⊲25							
QC-1 (6)	08/21/96				3500				ND<50	ND<50	ND<50	4100		6.8	SPL
MW-3		10/31/96	329.36	6.20		ND<250	ND<500		ND-25	ND<50	ND<50	ND<50	4000		-	SPL
QC-1 (f)	10/31/96				ND<250			ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50		6.8	SPL
MW-3		12/02/96	329.36	6.27		ND<250	 50		ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50		_	
QC-1 (1	f)	12/02/96				ND<250			ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50		6.4	SPL
MW-3	•	03/27/97	329.36	5.39	323.97	470	ND<100		ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50			
MW-3		06/03/97	329.36	7.92		ND<250	100		ND<0.5	ND<1.0	ND<1.0	ND<1.0	490		6.2	SPL
QC-1 (i	Ð	06/03/97				ND<250			ND<2.5	ND<5.0	ND<5.0	ND<5.0	84		5.9	SPL
MW-3		09/16/97	329.36	6.67	322.69	ND<250	330		ND<2.5	ND<5.0	ND<5.0	ND<5.0	74.0			
MW-3		12/03/97	329.36	6.81	322.55	ND<50	ND<200		ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50		5.5	SPL
QC-1 (f	0	12/03/97			JZZ.00	ND<50			ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		5.0	SPL
MW-3 `	•	06/26/98	329.36	5.08		ND<250			ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10			SPL
-			020.00	0.00	024.20	100-2200	_		ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50		4.8	SPL

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ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b (Feet)	TPH-G) (ug/1)	TPH-D (ug/l)	B (ug/l)	Ť (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	<u> </u>	DO (ppm)	LAB
MW-4	10/27/92	329.45	8.61	320.84	2300	190	23	54	50					
MW-4	04/09/93	329.45	5.25	324.20	1600	500	78	3.5		320				PACE
MW-4	08/25/88	329.45	7.32	322.13	1800	380	ND<0.5	3.5 ND⊲0.5	68 ND⊲0.5	1.0 ND<0.5				PACE
QC-1 (1	•				1600		ND<0.5	ND<0.5	ND<0.5	ND<0.5	2100 2100	(e)		PACE
MW-4 QC-1 (1	11/22/93	329.45	7.83	321.62	610	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2100	(e)		PACE
QC-1 (1 MW-4	-	~			1700		ND-2.5	ND<2.5	ND<2.5	ND<2.5	3500	(e)	_	PACE PACE
QC-1 (f	03/07/94) 03/07/94	329.45	6.29	323.16	710	1400	0.5	0.8	ND<0.5	ND<0.5	5900	(e) (e)	3.8	PACE
MW-4	06/09/94				1600	-	ND<0.5	ND<0.5	1.4	0.6	4200	(e) (e)	3.8 	PACE
MW-4	09/12/94	329.45	6.76	322.69	6400	1800	ND<10	ND<10	ND<10	ND<10	10000	(e) (e)	7.5	PACE
MW-4	12/20/94	329.45 329.45	7.83	321.62	2000	2700	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4200	(e) (e)	7.2	PACE
MW-4	03/16/95	329.45	6.68	322.77	9200	2400	ND<5.0	ND<5.0	ND<5.0	ND<5.0		(0)	6.1	PACE
MW-4	06/28/95	329.45	4.66 5.93	324.79	1400	960	140	ND<2.5	58	14			5.5	ATI
MW-4	09/06/95	329.45	6.83	323.52 322.62	5000	5400	(g) 240	ND<5.0	220	ND<10			7.4	ATI
MW-4	12/22/95	329.45	6.42	323.03	4400 3800	4500	ND<13	ND<13	ND<13	ND<25	12000		7.6	ATI
QC-1 (f)	12/22/95				3900	4700	15	ND<13	ND<13	ND~25	9200		7.1	ATI
MW-4	08/20/96	329.45	6.01	323.44	3900		16	ND<13	ND<13	ND<25	8600			ATI
MW-4	08/21/96	329,45			ND<250	470			_					
MW-4	10/31/96	329.45	6.37	323.08	ND<250	1600	ND<12 ND<2.5	ND<25	ND<25	ND<25	ND<250		7.7	SPL
MW-4	12/02/96	329.45	6.71	322.74	ND<50	13000	ND<5	ND<5.0 ND<10	ND<5.0	ND<5.0	ND<50		7.1	SPL
MW-4	03/27/97	329.45	5.70	323.75	8300	1500	44	ND<25	ND<10 ND<25	ND<10	2200		7.3	SPL
QC-1 (f)			-		6900		51	ND<25	ND<25	ND<25 ND<25	8000		6.2	SPL
MW-4	06/03/97	329.45	8.37	321.08	2800	270	62	ND<1.0	ND<2.0	ND<25	8500			SPL
MW-4	09/16/97	329.45	6.91	322.54	110	1800	0.80	ND<1.0	ND<1.0	ND<1.0	7000 7700		7.1	SPL
QC-1 (f)	09/16/97				130		1.2	ND<1.0	ND<1.0	1.1	7100		6.2	SPL
MW-4	12/03/97	329.45	7.16	322.29	ND<50	ND<200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		6.0	SPL SPL
MW-4	06/26/98	329.45	5.15	324.30	520		0.52	ND<1.0	ND<1.0	ND<1.0	1100		5.3	SPL
MW-5	04/09/93	000.00	5.10										0.0	016
MW-5	08/25/93	329.60	5.18	324.42	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5				PACE
MW-5	11/22/93	329.60 329.60	7.28	322.32	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5				PACE
MW-5	03/07/94	329.60	7.82	321.78	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5				PACE
MW-5	06/09/94	329.60	6.27 6.73	323.33 322.87	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5			5.7	PACE
MW-5	09/12/94	329.60	7.78	322.87	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5			7.7	PACE
MW-5	12/20/94	329.60	6.63	322.97	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5			7.2	PACE
MW-5	03/16/95	329.60	4.65	324.95	ND<50		 ND<0.50						-	
MW-5	06/28/95	329.60	5 69	323.91			ND<0.00	ND<0.50	ND<0.50	ND<1.0	·,		4,9	ATI
MW-5	09/06/95	329.60	6.82	322.78	ND<50	200	ND<0.50	ND<0.50	ND<0.50	ND 4 0				
MW-5	12/22/95	329.60	6.40	323 20		200		ND<0.00		ND<1.0	ND<5.0		7.3	ATI
MW-5	08/20/96	329.60	5.98	323.62										
MW-5	08/21/96	329 60			ND<50	ND<50	ND<0.50	ND<1 0						
MW-5	10/31/96	329.60	6.29	323 31					110<1.0	ND<1.0	ND<10		6.9	SPL
MW-5	12/02/96	329.60	6.37	323.23										_
MW-5	03/27/97	329.60	5.33	324.27	ND<50	ND<100	ND<0.5	ND<1.0	ND<1 0	ND<1.0	ND<10		5.8	SPL
MW-5	06/03/97	329.60	8.00	321.60			_							3rrL
MW-5	09/16/97	329.60	6.89	322.71	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	27		5.4	SPL
MW-5	12/03/97	329.60	6.99	322.61				<u>`</u>			<u>.</u> .,			
MW-5	06/26/98	329 60	5.11	324.49	ND<50		ND<0 5	ND<1.0	ND<1.0	ND<1.0	ND<10		4.7	SPL

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ALISTO PROJECT NO. 10-170

MM-6 04/09/33 329.55 5.37 324.19 ND-60 ND-60 ND-615 ND-616 ND-616 ND-616	DO (ppm)		LAB
MM-3 08/22/93 328.55 7.42 322.13 ND-60 T/0 ND-0.5 ND-1.0			
mints 11/2293 329.55 7.93 321.62 ND-60 IND-0.5 ND-0.5 ND-0.5 <td>-</td> <td></td> <td>PACE</td>	-		PACE
MW4 Decks 322,33 MD-450 ND-0.5 ND-1.0 ND-1.0 ND-5.0	-		PACE
MW-6 OVI202- 0012094 322.35 7.91 321.64 ND-630 ND-635 ND	42		PACE
MW-6 122004 22055 6.82 322.73 number	7.0		PACE
MW-6 C376 695 320 55 4.78 324.77 ND-50 ND-500 ND-60.50 ND-60.50 <td>6.7</td> <td></td> <td>PACE</td>	6.7		PACE
MW-6 06/28/95 328/55 5.07 323/8 ND-50 <			
MW-6 6906965 329.55 6.34 322.61 ND-50 <	6.1	6.1	ΠA
MW-6 122295 329.55 6.13 323.02 MU-6 MU-60 MU-60.50	-		
MW-6 08/20/96 323.55 6.18 323.37	72	72	ATI
MW-6 08/21/365 329.55 - - ND<50 120 ND<1.0	-	-	
MW-6 10/31/96 329.55 6.52 323.03			
MW-6 03/27/97 329.55 5.50 324.05 ND ND <td></td> <td> 8</td> <td>SPL</td>		8	SPL
MW-6 0322/197 329.55 5.50 324.05 ND<50 ND<10 ND<0.5 ND<1.0			
MW-6 000337 329.35 8.19 321.36			
MW-6 DW/169/J 329.55 6.55 322.60 ND-250 680 ND-25 ND-50 <	6.3		SPL
MW-6 0628998 329.55 5.20 324.35 ND<50 - ND<0.5 ND<1.0	 5.5		 SPL
MW-7 04/09/93 329.49 5.36 324.13 ND<50 ND<50 ND<10 ND<1.0 ND<1.0 ND<10 MW-7 08/25/93 329.49 7.44 322.05 ND<50	5.5		5PL
MW-7 08/25/93 329,49 7.44 322.05 ND-60 ND-60 ND-0.5	4.6		SPL
MW-7 08/25/93 329.49 7.44 322.05 ND-80 ND-805 ND-80.5 ND-80.5<			
MW-7 11/22/93 329.49 7.92 321.57 ND-850 ND-850 ND-855 ND-60.5 N		P,	PACE
MW-7 03/07/94 329.49 6.20 333.29 ND-50 ND-50 ND-0.5		P/	PACE
MW-7 06/09/94 329.49 6.89 322.60 ND-50 ND-0.5		P/	PACE
MW-7 09/12/94 329,49 7.87 321,62 ND-55 ND-05 ND-0.5	3.7		PACE
MW-7 12/20/94 329.49 6.77 322.72 ND-50 ND-50 ND-0.5	6.8	6.8 P/	PACE
MW-7 03/16/95 329.49 4.77 324.72 ND<50 ND<50 ND<0.50 ND<0.50 </td <td>6.8</td> <td></td> <td>PACE</td>	6.8		PACE
MW-7 06/28/95 329.49 5.94 323.55 ND<50 320 ND<0.50 ND<0.50 <td>6.5 5.9</td> <td></td> <td>PACE</td>	6.5 5.9		PACE
MW-7 09/08/95 329.49 6.98 322.51 ND<50 240 ND<0.50 ND<0.50 ND<0.50 ND<1.0 8.5 MW-7 12/22/95 329.49 6.65 322.84 ND<50	5.9 7.8		ATI ATI
MW-7 12/2295 329.49 6.65 322.84 ND<50 ND<0.50 ND<1.0	7.6		ATI
MW-7 08/21/96 329.49 6.22 323.27	6.9		ATI
MW-7 10/31/96 329.49 6.56 322.93 ND<50 ND<100 ND<1.0 ND<1.0 <td></td> <td></td> <td></td>			
MW-7 12/02/96 329.49 6.13 323.36 ND<50 ND<50 ND<1.0 ND<1.0 ND<1.0 S6 MW-7 03/27/97 329.49 5.08 324.41 ND<50			SPL
MW-7 03/27/97 329.49 5.08 324.41 ND<50 ND<100 ND<1.0 ND<1.0 <td>6.8</td> <td>6.8 SF</td> <td>SPL</td>	6.8	6.8 SF	SPL
MW-7 06/03/97 329.49 7.60 321.69 650 ND<100 ND<0.5 ND<1.0	7.3		SPL
MW-7 09/16/97 329.49 6.50 322.99 120 ND-10	6.6	6.6 SF	SPL
	6.8		SPL
MW-7 12/03/97 329.49 6.66 222.92 ND 50 ND 100 ND 100 ND 100 Z200	6.0	6.0 SF	SPL
MW-7 (h) 06/26/98 329.49 6.66 322.83 ND<50 ND<200 ND<0.5 ND<1.0 ND<1.0 ND<1.0 ND<1.0 ND<10 MW-7 (h) 06/26/98 329.49 4.96 324.53 ND<50 ND<0.5 ND<1.0 ND<1.0 ND<1.0 ND<1.0 ND<1.0	5.0 5.1		SPL SPL

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TABLE - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING FOR EPA METHOD 8260 ANALYSIS BP OIL COMPANY SERVICE STATION NO. 11120 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	B (ug/l)	Т (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TBA (ug/l)	TAME (ug/l)	LAD
MW-4	06/26/98	ND<5	ND<5	ND<5	ND<5	ND<10	ND<10	ND<10	ND<500	ND<10	SΡι
MW-7	06/26/98	ND<5	ND<5	ND<5	ND<5	ND<10	ND<10	ND<10	ND<500	ND<10	SPL

ABBREVIATIONS:

В	Benzene
Ţ	Toluene
E	Ethylbenzene
Х	Total xylenes
MTBE	Methyl tert butyl ether
DIPE	Di-isopropyl ether
ETBE	Ethyl t-butyl ether
TBA	t-butyl ether
TAME	tert-amyl methyl ether
ug/l	Micrograms per liter
ND	Not detected above reported detection limit
SPL	Southern Petroleum Laboratories

F:\01\10-170\10-170EC.WQ2

G400 Dublin Blvd., Dublin, CA 10/						2	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO B-1	
					00000000000000000000000000000000000000	MPLETED FIRST ENCOUNTERED WATER DEPTH				
OPERATOR LOC Tom Schmidt H. DRUL MAKE & MODEL SAM					LOCCED BY H. Hurk		STATIC WATER DEPTH/ 10 Feet/10-13-92	DATE		
					SAMPLING	METHOD	fied split-spoon		BOTTOM OF BORING	
WELL MATERIAL SLOT SIZE FILTER PACK B					BORING SE	AL.	neu opin-spoon	· <u>····</u>	19 Feet WELL NO.	
i LOOL	PIELD HEAD- SPACE *	Depth	WATER	WELL			AL CLASSIFICAT	ION & PHYSICAI	MW-1	
						Asph Baser	alt & ock fill		NA 6	
5 6 12	0	4 5 6				CLAY SANI	Y (CL); olive-bl D (SP); rust, n	ack, moist, soft, 10ist, loose, fine	high plasticity ≻medium	
2 5 8	0.8	7 8 9 10 11 12	- - - -			CLAY (CL); olive-black, moist, firm, high plastic 5% mm-size, reddish roots				
1						CLAY (CL); olive, moist, firm, high plasticity, 1% light tan, friable, angular, fine gravel CLAY (CL); olive-green, moist, firm, high plasticity,				
15	0	17 <u> </u>	ZŢ -			10% light tan, friable, angular, fine gravel confined saturated zone of undetermined lithology				
	*PID (ppm)	19 20 21 22 23 24 25 26 27 28 29 30								
HYDR()-						7	SOIL BORIN		PLATE	
ENVIR							ANI WELL CONST LOG M	RUCTION	A-1	
<u>T</u>	ECH	INØ	LOC	GIES,	INC.]	BP Oil Station		JOB NO.	
DATE: 10/16/92						7	6400 Dubl		9-040	

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STE/LOCATION 6400 Dublin Blvd., Dublin, CA	BEGUN 10/13/92	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO STUD		
DRELLING CONTRACTOR Bayland Drilling	COMPLETED	FIRST ENCOUNTERED WATER DEPTH				
OPERATOR	10/13/92 LOCCED BY	16 Feet STATIC WATER DEPTH/DATE				
Tom Schmidt	H. Hurkmans	9 Feet/10-13-92				
CME 75		odified split-spoon		BOTTOM OF BORING 19 Feet		
Sch. 40 PVC 0.010 #2/12	BORING SEAL Neat cement			WELL NO. MW-2		
HEAD- B SPACE BERTH	coursed.	RIAL CLASSIFICA	FION & PHYSICAL			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Bas SA CL SA CL CL CL CL CL CL CL	 Asphalt & Baserock fill SAND (SP); light gray, moist, loose, fine-medium CLAY (CL); olive-black, moist, soft, high plasticity SAND (SP); light gray, moist, loose, fine CLAY (CL); mottled reddish-tan & olive-green, moist, soft, high plasticity CLAY (CL); olive-green, moist, soft, high plasticity, contains 0.75 cm thick layers of light tan, dry, friable, angular, fine siltstone gravel confined saturated zone of undetermined lithology 				
4 5 0.8 18 19 20 20 21 20 21 22 23 24 24 25 24 25 26 27 28 28 29 29 29 29 20 29 20 24 25 26 27 28 29 29 29 29 29 29 29 29 29 29		ne as above clay SOIL BORIN AN		PLATE		
ENVIR MMENTA TECHN@LOGIES,		WELL CONSTRUCTION A-2 LOG MW-2				
LICIII UGIES,	IINC.	BP Oil Statio	·•	JOB NO.		
DATE: 10/16/92 Approved by: John Turney		6400 Dub Dubli		9-040		

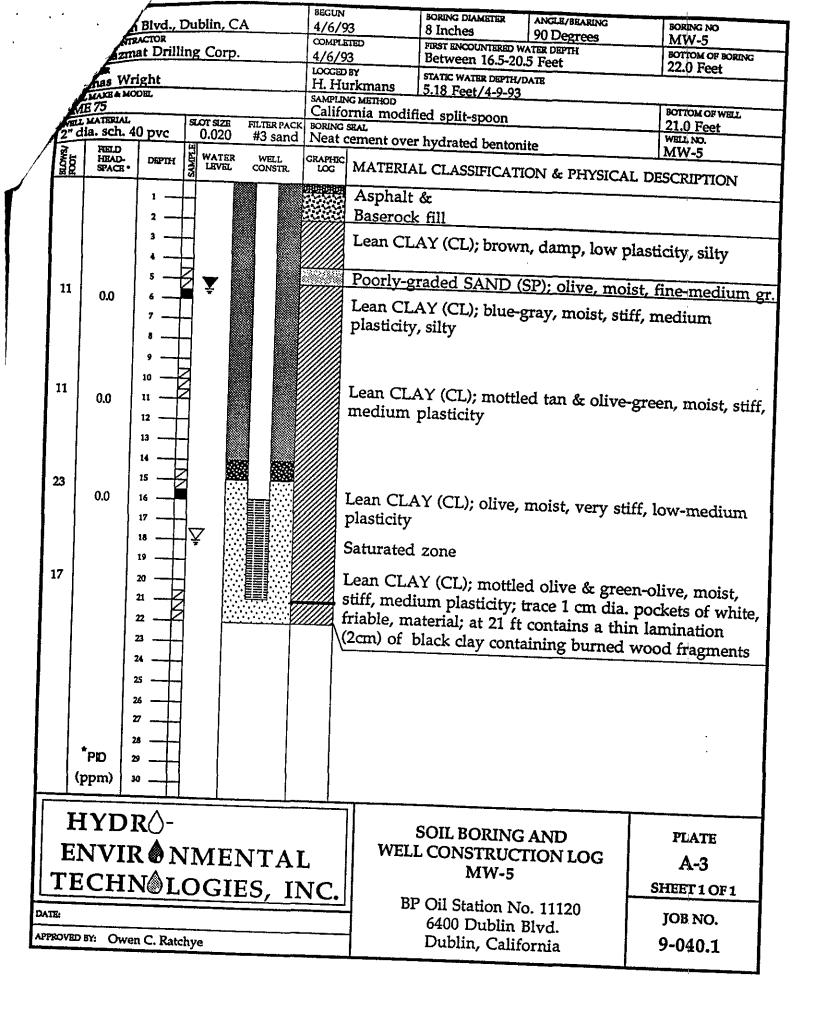
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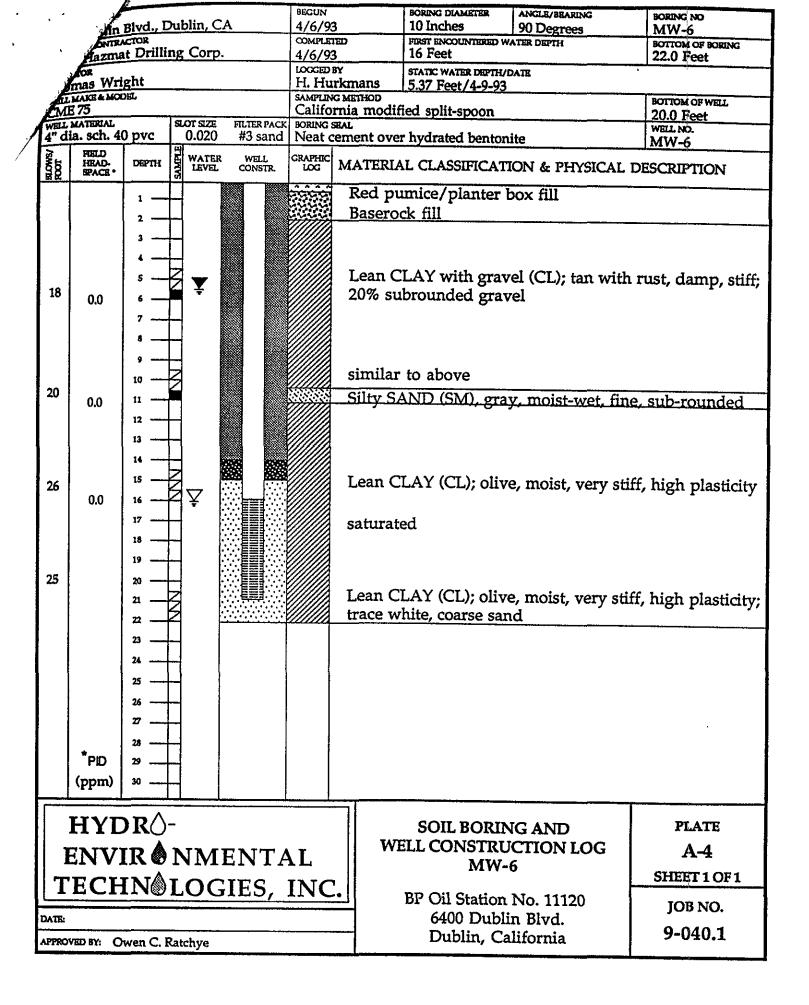
STE/LOCATION 6400 Dublin Blvd., Dublin, CA DELLING CONTRACTOR						/92	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO B-3
	Bayland Drilling				сомрія 10/13		FIRST ENCOUNTERED V 16 Feet	VATER DEPTH	
					LOCCED H. Hu	BY Irkmans	/DATE		
DRILL MAKE & MODEL CME 75 WELL MATERIAL SLOT SIZE FILTER PACK				SAMPLIN	G METHOD	BOTTOM OF BORIN 20.5 Feet			
				BORING	BORING SEAL WELL				
RELD DEPTH S WATER WELL					GRAPHIC	1	AL CLASSIFICA	TION & PHYSICA	MW-3
<u> </u>	SPACE -	1 2 3	3 			Asph			
2 4	886	5				CLA)	((CL); olive-bl	ack, moist, soft,	high plasticity
7	000	6 —				SANI	O (SP); olive,	moist, loose, fin	e
2 5 6	48	7 8 9 10 11 12 13	¥			CLA) moist	CLAY (CL); mottled reddish-tan & olive green, moist, firm, high plasticity		olive green,
3 6 7	34	14 — 15 — 16 —	Ţ			CLAY (CL); light olive, moist, firm, medium plasticity, 2% fine sand			
		17				confined saturated zone of unknown lithology			
4 5 6	2.6	19	NN			CLAY (CL); olive-green, moist, soft, high plasticity			
	*PID (ppm)	22 — 23 — 24 — 25 — 26 — 27 — 28 — 29 — 30 —							
HYDRÔ-							SOIL BORIN	=	PLATE
ENVIR MENTAL TECHNOLOGIES, INC.							WELL CONST LOG M	RUCTION	A-3
	ECH	IN()	LOC	GIES,	INC		BP Oil Station		JOB NO.
DATE:	10/16/	92		<u> </u>			6400 Dub	lin Blvd.	-
	VED BY: JO	hn Tum	AV				Dublir	ı, CA	9-040

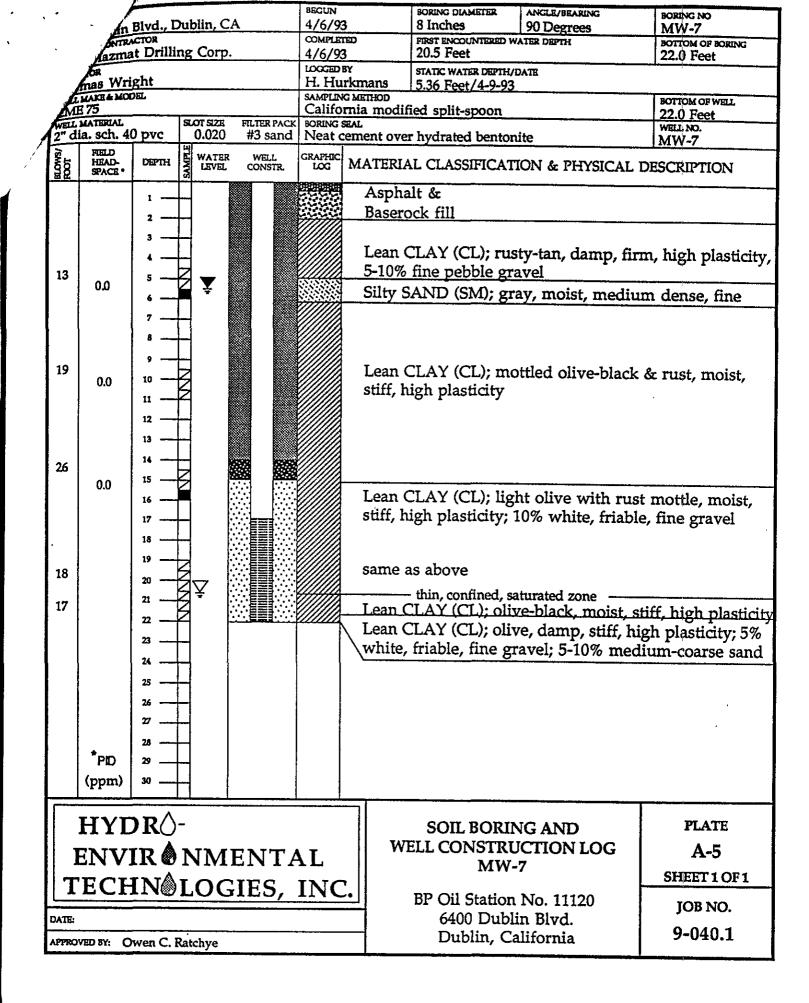
STE/LOCATION BEGUN 6400 Dublin Blvd., Dublin, CA 10/1						/97	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO B-4		
DRILLING CONTRACTOR COM						TED	FIRST ENCOUNTERED		D-4		
						10/13/92 16 Feet					
Tom	Schmidt				H. Hu	H. Hurkmans 9 Feet/10-13-92					
CME	MAKE & MOD 75	HEL.		ì	Califo	GMETHOD rnia modif	ied split-spoon		BOTTOM OF BORING 20.5 Feet		
WELL MATERIAL SLOT SIZE FILTER PACK BC						seal.			WELL NO. MW-4		
	RED HEAD-	DEPTH		WELL CONSTR.	GRAPHIC	1		TION & PHYSICAI			
ROOT FOOT	SPACE .		LEVEL	CONSTR.							
		1				Aspha	ock fill				
		2	1			Duser			······································		
		3						•			
	1004					CLA)	((CL): olive-b)	lack, moist, soft,	high plasticity		
	1004	·					,,		i, ingli plubicity		
		7									
		8	-								
3		,	, ¥			CLAN	(CI) mottle	t raddich tan l	alizza arean		
5	57	10 -					, firm, high p	1 reddish-tan & lasticity	onve green,		
'		11					,,				
		12									
		13									
35	5							live, moist, firm	firm, medium		
7	Û	16]y ∣			plasti	city, 2% fine s	and			
		17				Verv	soft saturated	zone may be silt	or sand		
		18	-								
3		19				CLA	(CL): olive-g	reen. wet. soft. h	ugh plasticity		
4 9	1	20			<u> </u>		CLAY (CL); olive-green, wet, soft, high plasticity				
			-								
		22									
		24	4								
		25	-					,			
		26	-								
		27	-								
	•	28	-								
	PID	29	-								
	(ppm)	30				<u> </u>					
	нүт		_				SOIL BORIN		PLATE		
ENVIRONMENTAL						•	AN WELL CONS		A-4		
							LOG	,			
TECHN@LOGIES, INC.						C.	BP Oil Static		JOB NO.		
	DATE: 10/16/92										

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. •	/	<i>J</i> .			BEGUN		BORING DIAMETER	ANGLE/BEARING		
	hin Blvd., Dublin, CA 4/6/93						8 Inches 90 Degrees		BORING NO LB-1	
١	CONTRACTOR					TED 3	FIRST ENCOUNTERED WATER DEPTH 17-18 Feet		BOTTOM OF BORING	
		-		<u></u>	LOCCED	LOCGED BY SECOND ENCOUNTERED WATER DEPTH				
						H. Hurkmans 29 Feet				
	ME 75				Califo	rnia modified split-spoon N/A				
WE N	LL MATERIAL	- <u></u>	SLOT SIZ			oring seal. Well NO. Neat cement N/A				
RLOWS/								FION & PHYSICAL	DESCRIPTION	
							t & ck fill			
		3				Lean C logged	LAY (CL); olive- from cuttings	black, damp, high p	lasticity,	
22	. 18/18	6 7 8 9 10		well installed		mediu	n-high plasticity	an with olive-green :		
ł		11 —	Ŕ		Clayey SAND (SC); tan, moist, fine, layer 6" thick					
18	18/18	12	B	РN		Lean CLAY(CL); like above, with 2 cm layer of friable, white, fine gravel (white clasts) in clay			of friable,	
14	18/18	14	B			similar to above clay with occassional (5%) white clasts				
21	18/18	15	Ŕ			to 1 cm dia.				
12	6/18	16				same as	above, (2/3 loss c	of core)		
17	18/18	18	8Ÿ			Sil	ty SAND (SM); 1 s above clay	ight olive, wet, fine		
21	12/18	19 <u> </u> 20 <u> </u>				same as		oss of core may have l	been	
24	12/18	21	Ħ			Fa	Fat CLAY, olive-brown with rusty-olive mottle.			
26	18/18	22	Ŕ				gh plasticity, 2 cn			
22		23				Lean C coating	Lean CLAY (CL), green-olive with 2% black spots with rust coatings, moist, high plasticity			
24		25	R				-			
25	18/18	27	B			same as above clay, silty @26.5, very silty @ 27'				
22	18/18	28						white coarse sand	· · · · · · · · · · · · · · · · · · ·	
s	3/18	30				coarse g	grained, subround	rated, moderate grad ed-subangular, 15-40 s been less clayey san	% clav.	
F			LL		1		lore lost, may have	e peen less clayey san		
	HYDR()-						SOIL BO		PLATE	
	ENVIR NMENTAL						LOG	LB-1	· A-2	
"	TECH	HNÔ	LO	GIES,	INC	2.			SHEET 1 OF 1	
				/			BP Oil Station 6400 Dub	· · · · ·	JOB NO.	
	ROVED BY: (Jwen C	Ratchva	· · · · · · · · · · · · · · · · · · ·			Dublin, C		9-040.1	
L			summinge							