May 22, 1996

Ms. Eva Chu

Alameda County Health Care Services 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502

RE: Shell Service Station - Case Closure Summary

7194 Amador Valley Boulevard Dublin, California WIC 204-2277-0105

Dear Ms. Chu:

The enclosed Case Closure Summary has been prepared by Enviros, Inc. on behalf of Shell Oil Products Company for the above referenced site. This summary includes a Case Closure Summary form, a Data Summary describing previous site activities, and copies of pertinent report sections.

If you have any questions, please call.

Sincerely,

Enviros, Inc.

Diane M. Lundquist, P.E.

Senior Engineer

C46725

cc:

P.E. NO. C46725

Mr. R. Jeff Granberry, Shell Oil Products Company

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#### CASE CLOSURE FORM

#### LEAKING UNDERGROUND FUEL STORAGE TANK PROGRAM

Address: 1131 Harbor Bay Parkway

I. Agency Information

Agency name: Alameda County Health Care Services

		2nd Floor
City/State/Zip: Alameda, Ca. 94502		Phone: (707) 253-4269
Responsible staff person: Eva Chu		Title: Hazardous Materials Specialist
II. Case Information		
Site facility name: Former Shell Service	Station	
Site facility address: 7194 Amador Valle	y Boulevard, Dublin, Ca.	
RB LUSTIS Case No.:	Local case No.:	LOP Case No.:

URF filing date:		SWEEPS No.:				
Responsible Parties		Addresses	Phone I	Phone Numbers		
	Company - Attn: Mr	. R. Jeff	P.O. Box 4023 Concord, California 94524	(510) 675	5-6168	
Granberry			Concord, Camornia 94924			
Tank No.	Size in Gal.	Contents	Closed in-Place/Remo	oved?	Date	
1,2,3	10,000-Gal. ea.	Gasoline	Removed		August 1987	

Tank No.	Size in Gal.	Contents	Closed in-Place/Removed?	Date
1,2,3	10,000-Gal. ea.	Gasoline	Removed	August 1987
4	280-Gal.	Waste Oil	Removed	August 1987

### III. Release and Site Characterization Information

Cause and type of release: Unknow	n						
	$\overline{}$	No		Date ap	roved by	oversight a	igency:
Monitoring wells installed?	Yes	No		Number	: 13	Proper s	creened interval?: Yes
Deepest GW depth below ground su	rface:	12.6	55 Ft.	Shallow	est depth:	5.16 Ft.	Flow direction: NE-SE
Most sensitive current use: None							
Are drinking water wells affected?	Yes	7	No)		Aquifer n	ame:	
is surface water affected? Yes		No		Nearest	affected S		N/A
Off-site beneficial use impacts (add		- /	ations): Data i				
Report(s) on file? Yes	1						Bay Region, ACHCS
110000100000000000000000000000000000000							<u></u>

Treatment and Disposal of Affected Material					
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination	Date		
Fuel Tanks soil	4.600 cu. yds.	Disposal facility unknown	1988		
Waste Oil Tank soil	Unknown	Disposal facility unknown	1988		

CCF101094 1 of 3

Release and Site Characterization Information (Continued)

maximum Docume	nted Co	ntamin	ant Con	centrati	ons Before an	d After	Cleanup				
Contaminant	Soil (	ppm)	Water	(ppb)	Contar	ninant	l	Soil (ppm) Water (		(ppb)	
	Before	After	Before	After				Before	After	Before	After
<u> </u>	ļ			i							
TPH (Gas)	2900	1400	85000	150	Xylenes			480_	280	11000	<0.5
TPH (Diesel)	45	45	Unk.	Unk	Ethylbenzene			87	51	960	9.1
Waste Oil	75	75	Unk.	Unk.	VOCs			ND	ND	Unk.	Unk.
Benzene	99	Unk.	1400	37	Oil & Grease			Unk.	Unk.	Unk.	Unk.
Toluene	120	99	3600	<0.5	SVOCs			Unk.	Unk.	Unk.	Unk.
cu. yds. of soil were of Dairy property). Wells property. Excavation	s MW-10 of this p	and MW- roperty in	-13 were ndicated t	installed that cont	immediately downg amination had migr	radient ated on	of the two fo	ormer US er Shell s	Ts on thi	s adjoini	
Does completed cor	rective a	ction pro	tect exis	ting ben	eficial uses per th	e Regio	nal Board I	Basin Pla	an? (Ye	es) N	0
Does completed cor						$\overline{}$		Basin Pi	an? (Ye	<u>s) N</u>	0
Does corrective active					nt land use? (Ye	<u>es) l</u>	<u> 10</u>				
Site management red	quiremer	ts: Non	e reguire	<u>d</u>							
Should corrective ac	tion be i	eviewed	if land u	se chan	ges? (Yes)	No (Re	eview if exc	avation	is perfo	med)	
Monitoring wells dec			7	No	Number decomm				r retaine		
List enforcement act								<u></u>			,
											<del></del>
List enforcement act	ions res	inded:									
				···							
		380C0D	tative	Data							
V. Local Ager	ncy Re	nesen									====
V. Local Ager Name: Ms. Eva Chu	icy Re	Jieseii				Title:	Hazardous	Materia	ls Speci	alist	
	icy Re	nesen				Title:	Hazardous Date:	Materia	ls Speci	alist	
Name: Ms. Eva Chu						Title:		Materia	ls Speci	alist	
Name: Ms. Eva Chu Signature	otificati							Materia	ls Speci	alist	

#### VII. Additional Comments, Data, etc.

Shell's initial remedial approach was to extract ground water from recover well RW-1 and treatment contaminated water at the surface. However, aquifer test results in conjunction with a file search of the BP, Unocal, and ARCO investigations on the other three corners of the same intersection revealed that pumping would influence the Unocal site and hydraulically pull contamination from the Unocal site onto the former Shell site. Further data evaluations indicated a potential source upgradient (based primarily on ground water sampling data from former monitoring well MW-10). This well was installed immediately downgradient of the Dutch Pride Dairy USTs. Ground water sampling data from well MW-10 led to a soil and ground water investigation on the adjoining property. This investigation included the removal of two USTs and excavation up to the former Shell site property line. Soils in the Dutch Pride Dairy excavation contained TPH-G concentrations as high as 6,000 ppm and benzene concentrations as high as 0.019 ppm. Well MW-10 was destroyed during excavation activities, and was replaced by Well MW-13. Since its installation, Well MW-13 has contained TPH-G concentrations as high as 8,900 ppb and benzene concentrations as high as 670 ppb.

Ground water data across the former Shell site indicate that natural attenuation processes are taking place. The Shell plume has remained stable and is expected to be biodegraded in place.

CCF101094 3 of 3

#### DATA SUMMARY

FORMER SHELL SERVICE STATION
7194 Amador Valley Boulevard
Dublin, California
WIC 204-2277-0105

#### Site Description and History

The former Shell service station site is located on the east corner of the intersection between Amador Valley Boulevard and Village Parkway in Dublin, California (Plates 1, 2 and 3) and is currently occupied by Oil Changers.

In August 1987, four underground storage tanks (USTs) were removed from the site. These tank removals included a 280-gallon waste oil tank and three 10,000-gallon fuel tanks. The fuel tanks were constructed of fiberglass and appeared to be in good condition upon their removal. The waste oil tank was constructed of steel and no holes were observed in this tank. Ground water was encountered in the fuel tank pit at a depth of approximately 11.5 feet below grade (fbg). Four soil samples (designated A1, B1, C1 and D1) were collected from the excavation sidewalls at a depth of 11.0 fbg. One water sample was collected from the excavation pit (designated W1). One soil sample was collected from native soil beneath the waste oil tank (designated W.O.-1) at a depth of 9.0 fbg. Fuel tank excavation soil samples and the water sample were analyzed for gasoline and benzene, toluene and xylenes (BTX). The waste oil tank excavation soil sample was analyzed for diesel, BTX, Total Oil & Grease, halogenated volatile organics and aromatic volatile organics. Soil samples A1, B1, C1 and D1 contained Total Hydrocarbons as Gasoline ranging from 270 to 1,900 parts per million (ppm) and benzene concentrations ranging from 4.2 to 31 ppm. Water sample W1 contained 85,000 ppb Total Hydrocarbons as Gasoline, 1,400 ppb benzene, 3,600 ppb toluene and 11,000 ppb xylenes. Waste oil tank sample W.O.-1 contained 45 ppm diesel, 75 ppm gravimetric waste oil, was ND for benzene and was ND for volatile organic compounds (VOCs). Results for aromatic volatile organics could not be located in existing Shell files. The locations of the soil and water samples are presented on the Kaprealian Engineering drawing in Appendix A. Laboratory reports are also presented in Appendix A.

In August 1987, additional soil excavation was performed to remove petroleum hydrocarbon-impacted soils detected during UST removals. Four additional side wall soil samples were collected for chemical analysis (designated A11, A12, D11 and D12). These soil samples were analyzed for Total Hydrocarbons as Gasoline (TPH-G) and BTX compounds. TPH-G concentrations in these soil samples ranged from 500 to 2.100 ppm. Benzene concentrations ranged from 5.1 to 39 ppm. The locations of these soil samples and laboratory reports are presented in Appendix A.

In December 1987, an additional 1,000 cubic yards of soil were excavated at the site (Figure 1 & 2 - Appendix A). Radial trenching and excavation were performed to delineate the extent of petroleum hydrocarbons in soil. Eleven soil samples were collected and analyzed from the trenches (T-1A, T-1B, T-2, T-3, and T-4A through T-4G). These trench samples contained TPH-G ranging from 150 to 2,900 ppm and benzene ranging from 9.6 to 98 ppm. Following trenching, the open excavation from the former UST pit was extended beyond the trenches. Soil sampling data are presented in Appendix A. Permission to aerate stockpiled excavation soils on site was granted by the Bay Area Air Quality Management District (BAAQMD).

On January 6, 1988, additional soil excavation was performed to remove petroleum impacted soils (refer to Figure 4 - Kaprealian Drawing in Appendix A). Approximately 600 cubic yards of soil were excavated to the depth of the water table and stockpiled on site. Stockpiled soils were analyzed and found to contain TPH-G concentrations ranging from 24 to 58 ppm and benzene concentration concentrations ranging from 0.5 to 3.9 ppm.

On January 18 and 19, 1988, an additional 1,200 cubic yards of petroleum impacted soil were excavated (Figure 4 - Appendix A), and stockpiled on site. On January 20, 1988, the BAAQMD granted permission to aerate these newly excavated soils on site. Stockpiled soils from this excavation event contained 5.0 to 820 ppm TPH-G and 0.5 to 51 ppm benzene.

On February 1 and 2, 1988, an additional 400 cubic yards of petroleum impacted soil were excavated (Figure 4 - Appendix A). Four side wall soil samples (S-1 through S-4), were collected for analysis of TPH-G and BTEX compounds. These soil samples contained TPH-G concentrations ranging from 300 to 1,400 ppm and benzene concentrations ranging from 5.5 to 22 ppm. Laboratory reports for these four samples are contained in Appendix A.

On February 3, 1988, an additional 1000 cubic yards of petroleum impacted soil were excavated. The extent of these excavation activities is shown on Figure 5 (Appendix A). Two side wall soil samples (S-5 and S-6), were collected for chemical analysis. TPH-G concentrations in these two samples ranged from 270 to 1,500 ppm and benzene concentrations ranged from 31 to 36 ppm. On February 5, 1988, soil aeration began on these recently excavated soils.

In April 1988, four ground water monitoring wells (MW-1 through MW-4), were installed at the subject site. The locations of these four monitoring wells are shown on Plate 2 Soil and ground water samples were collected and analyzed during this investigation. Soils collected from the four well borings contained Total Volatile Hydrocarbons (TVH) ranging from 18 to 290 ppm and benzene ranging from 0.16 to 5.7 ppm. Ground water samples analyzed from the four wells contained TVH ranging from ND to 440 ppb and benzene ranging from ND to 120 ppb. Soil data are presented in the Ensco Table 1 - Results of Analyses for Soil and Ground Water (Appendix A). Ground water flow direction was calculated during this investigation to be toward the southeast. The exploratory boring logs

and well completion details for MW-1 through MW-4 are contained in Appendix C. A 1/2-mile radius well survey was also performed during this investigation. A total of nine wells were identified during the survey. These findings are presented in Table 2 - Summary of Well Survey Within 1/2 Mile Radius of Former Shell Site (Appendix D). The locations of the identified wells with respect to the subject site are shown on Ensco Figure 1 - Site Location & Well Survey Map (Appendix D). Of the wells identified, only three wells (Figure designations C and D), are located in the down-gradient direction from the subject property, and are located 1/4-mile to 1/2-mile from the site, respectively. The well descriptions indicate they are used for monitoring and testing purposes.

Between July 19 and August 12, 1988, off-site ground water monitoring wells MW-5 through MW-7 were installed (Plate 2). These three newly installed wells were sampled on August 26, 1988. Well MW-5 contained 210 ppb TPH-G and 6.0 ppb benzene. Well MW-6 contained 15,000 ppb TPH-G and 390 ppb benzene. Well MW-7 was ND for TPH-G and contained 0.8 ppb benzene (slightly above the detection limit). Soil data from these well borings identified the presence of TPH-G ranging from ND to 75 ppm. This investigation also included the performance of a soil gas survey, and drilling, sampling, and lithlogging of six soil exploratory borings (B-1 through B-6), (refer to Site Plan in Appendix A). Chemical analysis results of soil samples collected from the six borings and from the well borings are presented in Table 2 - Soil Analysis Results Summary (Appendix A). TPH-G was identified in these borings ranging from ND to 540 ppm and benzene ranged from 3.9 to 9.8 ppm. A recovery well (designated RW-1), was also installed and was used for slug testing to evaluate remediation design parameters (exploratory boring log and well details are contained in Appendix C). In addition to these investigations, Oil Changers purchased the subject property from Shell Oil Company. As part of Oil Changers plans to construct their facilities on the property, they also installed a concrete pad for possible installation of future remediation equipment.

In January 1989, a Remediation Action Plan (RAP) was prepared by Ensco. The plan was formulated based on data from the excavation of the USTs, installation of seven ground water monitoring wells (MW-1 through MW-7), drilling and sampling of six soil borings (B-1 through B-6), installation of one recovery well (RW-1), aquifer testing results, and the performance of a soil gas survey. Based on accrued data, ground water extraction and treatment was proposed.

Between February 21 and 23, 1989, five additional off-site ground water monitoring wells (MW-8 through MW-12), were installed at the site. These wells were added to the quarterly monitoring and sampling schedule for the site. The initial results from sampling these wells in March 1989 identified the presence of petroleum hydrocarbons in only one well (MW-10). Wells MW-8, MW-9, MW-11 and MW-12 were ND for petroleum hydrocarbons. Well MW-10 contained 1,000 ppb TPH-G and 140 ppb benzene. These sampling results are presented in Table 2 - Historical Ground Water Quality (Appendix B).

In June 1989, Ensco prepared a Final Assessment Report, which evaluated the extent of off-site contamination from the subject property. The source of contamination for off-site well MW-10 (the only well to contain detectable levels of petroleum hydrocarbons), was found to be unused USTs located on an adjacent property (Dutch Pride Dairy), located southwest of the former Shell site (refer to 6/28/89 Ground Water Elevation Contour Map in Appendix B). It was also determined that petroleum hydrocarbon leakage from these tanks had impacted the former Shell site. Based on the discovery of these tanks, an investigation was initiated on the adjoining Dutch Pride Dairy property.

In late July and early August 1989, Ensco performed a series of aquifer tests on recovery well RW-1. An initial step-drawdown test was followed by a 72 hours constant-rate discharge test. Transducers were placed in recovery well RW-1 and ground water monitoring wells MW-1 through MW-5 to record test data. The GWAP analytical computer model was used to determine aquifer parameters and estimate effective capture zone. Based on test data and computer model results, it was determined that the effective radius of influence from pumping RW-1 at 3 gallons per minute (gpm) was 200 feet, and that no additional recovery wells would be required to capture and treat dissolved hydrocarbons in ground water.

In April 1990, Ensco performed a file search of the BP, Unocal and ARCO sites located on the remaining three corners of the intersection of Village Parkway and Amador Valley Boulevard. The purpose of this research was to evaluate potential impacts to the subject property and determine whether ground water pumping from the Shell recovery well (RW-1) could potentially induce migration of contaminants from the three other sites onto the former Shell site. The results of the file search indicated that ground water pumping from the former Shell site (recovery well RW-1), would impact the Unocal site, potentially drawing contaminants onto the subject site. These findings were presented in a letter to Shell dated April 3, 1990.

In January 1990, Aqua Terra Technologies (ATT), removed two USTs on the Dutch Pride Dairy property southwest of the former Shell site. Separate-phase petroleum hydrocarbons were encountered. The Alameda County Department of Environmental Health (ACDEH), confirmed that the Dutch Pride Dairy release had impacted the former Shell site. Soil samples taken from the tank excavation contained concentrations as high as 6,000 ppm of TPH-G and 0.019 ppm benzene. Over-excavation of the tank pit was performed up to the property line of the former Shell site. This assessment of the Dutch Pride Dairy site was presented in a correspondence to Shell on October 15, 1992 by Pacific Environmental Group, Inc. During the removal of one of the tanks, well MW-10 was destroyed.

In April 1991, ATT installed well MW-13 to replace former well MW-10. This new well was installed within 3 feet of the former well. The well was sampled for TPH-G and BTEX compounds. TPH-G was detected in well MW-13 at a concentration of 1,000 ppb and benzene was detected at a concentration of 430 ppb (refer to Historical Ground Water Quality Database in Appendix B.

In November 1991, joint ground water monitoring and sampling was begun on the former Shell site, the BP site, the Unocal site and ARCO site. The purpose of the joint monitoring and sampling effort was to evaluate subsurface conditions in the general area of all four sites. Routine joint monitoring and sampling for the four corner sites has continued to date.

#### Subsurface Characterization

During site investigation activities, the subsurface materials encountered consisted primarily of silty clay (CL and CH) with minor amounts of sandy clay (CH) to the total depth explored of 31.5 fbg. Copies of exploratory boring logs and well completion details for MW-1 through MW-4 and RW-1 are presented in Appendix C. Shell files did not contain logs or well completion details for remaining wells.

Depth to ground water has ranged from 5.16 to 12.65 fbg. Ground water flow direction has ranged historically towards the northeast-southeast. The hydraulic gradient has ranged between 0.003 and 0.01. Ground water contour maps from the last four consecutive monitoring and sampling reports are presented in Appendix B.

#### Summary of Previous Reports

A listing and copies of site reports used in preparing this summary are attached. The following presents a brief summary of each report.

#### August 11, 1987

This Kaprealian Engineering report summarizes the removal of the three 10,000-gallon capacity USTs and the 280-gallon waste oil tank and presents soil sampling data taken from the UST excavation soils (side wall samples A1, B1, C1 and D1), and ground water (sample W-1), and soil from waste oil tank excavation (sample W.O.-1).

#### December 16, 1987

This Kaprealian Engineering report presents the results of over-excavation related to the UST pit and contains sample analysis data for four over-excavation side wall soil samples (A11, A12, D11 and D-12).

#### January 6, 1988

This Kaprealian Engineering report documents over-excavation activities associated with the UST complex. An additional 1,000 cubic yards of soil were removed during these activities.

#### January 26, 1988

This Kaprealian Engineering report documents over-excavation activities associated with the former UST complex. An additional 1,200 cubic yards of soil were removed and sampled to delineate the extent of petroleum hydrocarbons in soil.

#### February 4, 1988

This Kaprealian Engineering report documents the over-excavation of an additional 400 cubic yards of soil associated with the former UST complex, and presents soil sampling analyses for soil samples S-I through S-4 (side wall soil samples). Based on these data, an additional 1,000 cubic yards of soil were excavated and side wall samples were analyzed (samples S-5 and S-6).

#### February 17, 1988

This Kaprealian report documents over-excavation of an additional 100 cubic yards of soil at the site and presents chemical data for soil sample T-7.

#### May 25, 1988

This Ensco report presents the installation of monitoring wells MW-1 through MW-4, includes the exploratory boring logs and well completion details, and presents well boring soil sampling results and ground water monitoring and sampling results for the newly installed wells. This report also includes a 1/2-mile radius well survey.

#### January 24, 1989

This Ensco report presents a Remedial Action Plan (RAP) for the subject site.

#### June 12, 1989

This Ensco report presents ground water sampling data and describes the installation of Wells MW-5 through MW-7, and off-site wells MW-8 through MW-12.

#### December 15, 1989

This Ensco report describes the results of the step-drawdown and constant-rate discharge pump test performed in recovery well RW-1.

#### April 3, 1991

This Ensco reports describes the installation of well MW-13 by ATT, a replacement well for MW-10 that was destroyed during the removal of two tanks on the adjoining Dutch Pride Dairy property.

#### August 8, 1991

This RESNA report describes ground water sampling results and presents a benzene concentration map with the newly installed Well MW-13 data.

#### January 28, 1992

This RESNA report presents ground water data from the first joint monitoring and ground water sampling effort among Shell, BP, Unocal and ARCO.

#### Quarterly Reports (Various)

Various quarterly reports prepared by Ensco, RESNA, Pacific Environmental Group, and Enviros, dating from 1989 through 1995.

#### Waste Oil Tank Removal Summary

The 280-gallon waste oil tank was removed in August 1987. Following tank removal, the tank was visually inspected and no holes were identified. One soil sample (W.O. - 1), was collected and analyzed from native soil beneath the tank at a depth of 9 fbg. The soil sample contained 45 ppm diesel and 75 ppm gravimetric waste oil. Sample W.O. -1 was ND for BTX and volatile organic compounds (VOCs). Chemical analytical data are presented in Appendix A. Based on these data, no additional excavation was performed. These soils were stockpiled on site with the excavated fuel UST complex soils and transported to a disposal facility.

#### Underground Storage Tank Removal Summary

The three 10,000-gallon fuel USTs were removed in August 1987. The three tanks were constructed of fiberglass and appeared to be in good condition. Excavation to remove the tanks encountered ground water at a depth of approximately 11.5 fbg. Upon removal of the tanks, four side wall soil samples (A1, B1, C1 and D1), were collected and analyzed for petroleum hydrocarbons. These soil samples contained TPH-G ranging from 270 to 1,900 ppm and benzene from 4.2 to 31 ppm.

As a result of the initial excavation soil sampling data, a series of over-excavations (10 total), were performed to delineate the extent of petroleum hydrocarbons in soil (Figure 7 - Appendix A). Soil analytical data for these over-excavation activities are presented in Appendix A. Side wall sampling results from these over-excavation activities indicated that a more effective approach to delineating petroleum hydrocarbons in soils would be through the drilling of soil borings. Approximately 4,600 cubic yards of soil were excavated/over-excavated around the former UST's location to ground water to remove petroleum hydrocarbon sources.

Soil Handling & Disposal (April 8,1900 KE) update Pol 7)
Approximately 4,600 cubic yards of soil were excavated on the subject site. Shell received

Approximately 4,600 cubic yards of soil were excavated on the subject site. Shell received permission from the BAAQMD to aerate soils on site. Following aeration and characterization, these soils were transported to a disposal facility.

#### Off-site Source Search

Based on the results of ground water sampling data, review of data from former Well MW-10 and Well MW-13, and data analysis for excavation activities and related soil sampling from the adjoining Dutch Pride Dairy property, soil and ground water data indicate that petroleum hydrocarbons from the former two tanks located on the adjacent Dutch Pride Dairy site leaked and petroleum hydrocarbons migrated onto the Shell site.

In September 1995, three soil borings (B-1 through B-3), were installed near the south property line on the former Shell site to evaluate whether contamination was coming onto the subject property from the former Dutch Pride property. Soil sample S-1 taken from boring B-3 at a depth of 12 fbg contained 1100 ppm TPH-G and 8.4 ppm benzene. A grab water sample from this boring contained 120,000 ppb TPH-G and 19,000 ppb benzene. These data indicate that petroleum hydrocarbons are migrating onto the former Shell site from the former Dutch Pride USTs. Soil data are presented in Appendix A. Ground water data are presented in Appendix B

#### Soil Sampling Summary

Soil sampling beneath the former waste oil tank identified low levels of petroleum hydrocarbons in soil. Diesel was detected at a concentration of 45 ppm and gravimetric waste oil at 75 ppm. Benzene was ND and VOC analyses were ND. Based on these data, no further excavation was performed.

A series of soil excavation activities took place following the removal of the three fuel USTs. Several over-excavations were performed in an attempt to delineate and remove the extent of petroleum hydrocarbons in soil. These excavations took place between August 1987 and February 1988. The extent of these over-excavations is shown on Figure 6 (Appendix A). Based on trenching soil sample analysis to delineate the extent of hydrocarbons in soil (Figure 1 - Appendix A), the entire area within the trenching perimeter was excavated to ground water (Figure 2 - Appendix A) on December 18, 1987. Trenching samples contained TPH-G concentrations ranging from 150 to 2900 ppm. Benzene ranged from 9.6 to 98 ppm. Soil sampling data for these over-excavations are also presented in Appendix A.

Over-excavation continued, with periodic soil sampling. Shell was is the process of relinquishing the subject property to Oil Changers, who wanted to open a business at this location. While excavation activities were occurring, Oil Changers was in the process of finalizing their purchasing agreement with Shell and were actively pursuing construction planning, permitting, etc. to open their business on the subject property by the end of the summer of 1988. Based on established deadlines set by Oil Changers, additional over-excavation was ceased, so that the property could be made ready for construction of their new building. The new building was to be located in the area were over-excavation had been completed.

Excavated soils were aerated on site in selected volumes. Soil aeration was approved by the BAAQMD. When acceptable petroleum hydrocarbons levels were achieved through aeration, the soils were transported to an appropriate disposal facility.

Soils analyzed from well borings MW-1 through MW-4 contained TPH-G ranging from 18 to 290 ppm and benzene ranging from 0.16 to 5.7 ppm. These data are presented in Table 1 - Results of Analyses for Soil and Ground Water (Appendix A). Soils analyzed from well borings MW-6 and MW-7 contained TPH-G concentrations ranging from ND to 75 ppm (Table 2 - Soil Analysis Results Summary, Appendix A).

A soil gas survey was performed in 1988. Additional site characterization continued with the institution of a soil and ground water investigation. A total of six soil borings (B-1 through B-6), were drilled off-site, around the northwest, north and northeast property lines (refer to Ensco Site Plan contained in Appendix A). These borings were located as a result of information obtained from a soil gas survey. Soil analytical results from sampling these borings identified TPH-G concentrations ranging from ND to 540 ppm and benzene ranging from ND to 9.8 ppm. Borings B-2, B-3 and B-4 were ND for TPH-G and BTEX. The highest concentrations of petroleum hydrocarbons in these borings were identified in soils less than 10 fbg. Below a depth of 10 feet, petroleum hydrocarbon concentrations decreased or were ND. These data are presented in Table 2 - Soil Analysis Results Summary (Appendix A). Further off-site soil investigations were not pursued due to

ongoing soil and ground water investigations at the BP, Unocal and ARCO sites located on the remaining three corners of the same intersection.

#### Ground Water Monitoring and Sampling Summary

One water sample (W1), was collected in August 1987 from the open excavation when the former USTs were removed. This water sample contained 85,000 ppb TPH-G and 1,400 ppb benzene, 3,600 ppb toluene and 11,000 ppb xylenes.

In April 1988, a total of four on site monitoring wells were installed (MW-1 through MW-4), along the inside of the property lines to characterize ground water quality (Plate 2). Well MW-1 was installed in the down-gradient direction of the former USTs location, and Wells MW-2, MW-3 and MW-4 were installed in the up-gradient direction. The initial sampling results of these five wells identified TPH-G concentrations ranging from ND to 440 ppb and benzene ranging from ND to 120 ppb.

Based on the sampling results for Wells MW-1 through MW-4, an additional three monitoring wells (MW-5 through MW-7), were installed at the site in July and August of 1988 (Plate 2). Well MW-5 was installed as a deeper on site well, adjacent to Well MW-1, to characterize the vertical extent of petroleum hydrocarbons. Well MW-6 was installed as an off-site well on the street at the intersection of Amador Valley Boulevard and Village Parkway. Well MW-7 was installed across Village Parkway in the street. Well MW-5 initially contained 210 ppm TPH-G and 6.0 ppb benzene. Well MW-6 initially contained 15,000 ppb TPH-G and 390 ppb benzene. Well MW-7 initially contained 0.8 ppb benzene. There was no TPH-G in well MW-7. RW-1 (recovery well) was installed to provide ground water pumping and surface treatment of petroleum hydrocarbons.

As a result of ongoing monitoring and sampling data evaluations from the existing seven wells, five new wells (MW-8 through MW-12), were installed off-site in February 1989. The initial sampling of these wells resulted in ND levels of petroleum hydrocarbons in four of the five wells (MW-8, MW-9, MW-11 and MW-12). The locations of these wells are shown on Plate 2. Only Well MW-10 contained detectable concentrations of TPH-G (1,000 ppb) and benzene (140 ppb). Well MW-10 was installed in the immediate downgradient direction of the USTs present on the Dutch Pride Dairy property.

The ground water data from well MW-10, and wells MW-2, MW-3 and MW-4 indicated an off-site source of contamination migrating onto the former Shell site. Based on routine ground water sampling results, a soil and ground water investigation commenced on the adjoining Dutch Pride Dairy property. During UST removal activities on the Dutch Pride Dairy property, separate-phase hydrocarbons were identified in the tank pit water. Well MW-10 was subsequently destroyed during excavation activities. TPH-G concentrations as high as 6.000 ppm and benzene concentrations as high as 0.019 ppm were identified in soils. Over-excavation proceeded on this site, up to the property line between the former Shell site and the Dutch Pride Dairy site. Following completion of excavation activities. Well MW-13 was installed to replace well MW-10. Initial sampling results from well MW-13 identified TPH-G at a concentration of 1.100 ppb and 430 ppb benzene in ground water. These data, in conjunction with excavation data at the adjoining site, clearly indicated that petroleum hydrocarbon contamination had migrated onto the Shell site from the Dutch Pride Dairy site. ACDEH confirmed that contamination from the Dutch Pride Dairy had impacted the former Shell site.

Based on soil and ground water investigations performed by Shell and surrounding sites, especially the Dutch Pride Dairy property, Shell continued to monitor ground water and perform routine sampling and analyses for TPH-G and BTEX compounds. These data are presented in Tables 1 and 2 (Appendix B). Data presented in Table 2 indicate that natural degradation of petroleum hydrocarbons has occurred. Down-gradient wells (from the former Shell USTs) have been at or near ND concentrations for numerous sampling events. Well MW-1 has been at or near ND for TPH-G and benzene since November 1993. Well MW-5 has remained ND for TPH-G and BTEX since February 1994. Well MW-7 has been ND for TPH-G and BTEX since December 1988, with the exception of one isolated detection of TPH-G and two isolated detections of benzene. The one detection of TPH-G occurred in August 1992 at a concentration of 52 ppb. The two benzene detections (0.8 ppb and 1.9 ppb) occurred in August 1992 and February 1995, respectively. Crossgradient well MW-6 has steadily decreased in TPH-G and benzene concentrations over time. With the exception of two isolated detections of TPH-G (61 and 140 ppm) in well MW-11 in February and August 1993, and one benzene detection in MW-11 (18 ppb) in August 1993, wells MW-8, MW-9, MW-11 and MW-12 have been ND since they were installed.

Cumulatively, ground water data indicate that the extensive soil excavation activities performed at the former Shell site have been effective in removing the source of petroleum hydrocarbons that could impact ground water. Historic field monitoring and ground water quality data are presented in Tables 1 and 2 in Appendix B. This is most evidenced by wells MW-2 and MW-5, which are located down-gradient from the former UST complex (Plate 2). While detectable concentrations of TPH-G and benzene remain in well MW-6, these concentrations have decreased steadily through time via natural attenuation processes. It is expected that these processes will continue to degrade petroleum hydrocarbons in this area. Although elevated concentration of TPH-G and benzene are still present in well MW-13, this monitoring point is up-gradient (off-site) of the former Shell site and is located immediately down-gradient from the former USTs at Dutch Pride Dairy. Historical excavation data and ground water sampling from this site (i.e. well MW-13) clearly indicate that petroleum hydrocarbons from the two former USTs at this site have impacted the former Shell site.

The September 1995 investigation data indicate that petroleum hydrocarbons are migrating onto the former Shell site from the old USTs that existed on the Dutch Pride Dairy property. Petroleum hydrocarbons were detected in both soil and ground water at elevated concentrations adjacent to the southern property line on the former Shell site.

#### Aquifer Test Data

In July and August 1989, a step-drawdown test and constant-rate discharge test was performed on recovery well RW-1. The results of this test indicated an approximate radius of influence of 200 feet Based on these results. Shell performed a file search of the BP. ARCO and Unocal sites on the other three corners of Amador Valley Boulevard and Village Parkway. Based on available environmental investigation data at that time, it was determined that a ground water pump and treat system, even at low flow rates (≤3 gpm), would impact Unocal's site, and draw contaminants onto the former Shell site. Aquifer test data are summarized in Appendix E.

#### Site Remediation

Site remediation has consisted of removing 4,600 cubic yards of soils containing petroleum hydrocarbons during the removal of the former USTs.

Ground water pumping was initially proposed as the most viable remedial alternative, however, further investigations (i.e. pump test data from recovery well RW-1), indicated that contaminants from other service sites would be influenced and result in the migration of contaminants onto the former Shell site.

Since source removal activities on the subject property, down-gradient well MW-1 has been ND for TPH-G six of the last eight consecutive quarters. Benzene concentrations during the last eight consecutive quarters have ranged from ND to 12 ppb. The last two quarters have been ND for TPH-G and benzene. Well MW-5 has remained ND for TPH-G since August 1992 and for BTEX since February 1994. Natural attenuation processes are expected to continue to reduce petroleum hydrocarbons in this area.

Further investigations into potential off-site sources revealed that the adjoining property to the southwest (Dutch Pride Dairy), had two USTs still in the ground in early 1990. Additionally, off-site well MW-10 consistently contained elevated concentrations of petroleum hydrocarbons. This well was located immediately down-gradient of the Dutch Pride Dairy tanks. The subsequent soil and ground water investigation on the Dutch Pride Dairy property included UST removals, over-excavation of soils and replacement of well MW-10 (destroyed during tank removals), by well MW-13. Separate-phase product was identified on the tank pit water during excavation activities. Over-excavation was performed and continued up to the property line of the former Shell site. Excavation soils sampling identified TPH-G as high as 6,000 ppm and benzene up to 0.019 ppm on the Dutch Pride Dairy site. ACDEH confirmed that petroleum hydrocarbons had impacted the former Shell site.

Historical ground water quality data for wells down-gradient and cross-gradient of the former Shell UST complex indicate that natural attenuation processes have been effective in remediating petroleum hydrocarbons in soil and ground water. Natural degradation processes are expected to continue.

#### Low-Risk Site Evaluation

#### Source Removal

The "Interim Guidance on Low-Risk Petroleum Hydrocarbon Cleanups" was used to evaluate the subject site. The "source" of petroleum hydrocarbons appears to have been the former USTs and associated piping based on soil sampling data (Appendix A) and UST pit water sample (W1) analysis (Appendix B). Extensive excavation and over-excavation have been performed to remove the source of petroleum hydrocarbons to ground water on site (Appendix A)

#### Low Risk Site

Employing the following Regional Water Quality Control Board (RWQCB) criteria:

- Ground water less than 50 feet,
- No drinking water wells screened in the shallow aquifer within 250 feet of the leak, and.
- No surface water or sensitive habitats that may be adversely impacted by the release.

The subject site meets these criteria and can be classified as a "low-risk" site. Extensive excavation and over-excavation have been performed to remove the source. Ground water sampling data indicate plume stabilization and in-place attenuation of petroleum hydrocarbons.

#### Sensitive Receptors

No water wells exist in close proximity to the subject property. There are no wetlands, marshes, mudflats, aquatic plants or wildlife habitats in close proximity to the subject property.

Whose with new health nek of residual soil contain.

#### Conclusions

Soils containing petroleum hydrocarbons have been excavated during the removal of the USTs and during the removal of the waste oil tank. Approximately 4,600 cubic yards of soil were removed as a result of the excavation of the former USTs.

Ground water data indicate that source removal through excavation and natural attenuation processes have limited the extent of petroleum hydrocarbons in the subsurface. Contamination up-gradient of the former Shell USTs is believed to originate from the two USTs on the adjoining Dutch Pride Dairy property, southwest of the subject property.

Petroleum hydrocarbon sources which could pose a threat to ground water have been removed to the fullest extent possible from the subject site through tank removals, excavation of impacted soil, and through natural attenuation processes.

#### Recommendations

Data presented in this document indicate that source removal has been performed and that natural attenuation processes will mitigate the residual on site hydrocarbons. Therefore, we respectfully request that case closure be granted.

# LISTING OF CORRESPONDENCES AND SITE REPORTS

### Former Shell Service Station 7194 Amador Valley Boulevard Dublin, California

Consultant/Agency	Document Title/Subject	<u>Date</u>
Kaprealian Engineering	Soil Sampling Investigation Former Shell Service Station 7194 Amador Valley Boulevard Dublin, California	August 11, 1987
Kaprealian Engineering	Update Report Former Shell Service Station 7194 Amador Valley Boulevard Dublin, California	December 16, 1987
Kaprealian Engineering	Update Report #2 Former Shell Service Station 7194 Amador Valley Boulevard Dublin, California	January 6, 1988
Kaprealian Engineering	Update Report #3 Former Shell Service Station 7194 Amador Valley Boulevard Dublin, California	January 26, 1988
Kaprealian Engineering	Update Report #4 Former Shell Service Station 7194 Amador Valley Boulevard Dublin, California	February 4, 1988
Kaprealian Engineering	Update Report #5 Former Shell Service Station 7194 Amador Valley Boulevard Dublin. California	February 17, 1988
Ensco Environmental Services. Inc	Soil and Ground Water Investigation Shell Oil Company 7194 Amador Valley Boulevard Dublin, California	May 25. 1988

Ensco Environmental

Services, Inc.

Remedial Action Plan Shell Oil Company

7194 Amador Valley Boulevard

Dublin, California

January 18, 1989

Ensco Environmental

Services, Inc.

June Quarterly Report Former Shell Station

7194 Amador Valley Boulevard

Dublin, California

June 12, 1989

Ensco Environmental

Services, Inc.

September Quarterly Report

Former Shell Station

7194 Amador Valley Boulevard

Dublin, California

September 28, 1989

Ensco Environmental

Services, Inc.

Shallow Ground Water Aquifer

Pump Test

Former Shell Station

7194 Amador Valley Boulevard

Dublin, California

December 15, 1989

Ensco Environmental

Services, Inc.

December Quarterly Report

Former Shell Station

7194 Amador Valley Boulevard

Dublin, California

January 17, 1990

Ensco Environmental Services, Inc.

February Quarterly Report Former Shell Station

7194 Amador Valley Boulevard

Dublin, California

April 3, 1990

Exceltech

Correspondence

Reports of Stations with Reported Leaks Adjacent to Former Shell

Station

7194 Amador Valley Boulevard

Dublin, California

April 3, 1990

Exceltech

June Quarterly Ground Water Sampling

and Analysis

Former Shell Station

7194 Amador Valley Boulevard

Dublin. California

July 2, 1990

Exceltech

September Quarterly Ground Water Sampling

and Analysis

Former Shell Station

7194 Amador Valley Boulevard

Dublin, California

October 3, 1990

### enviros.

Exceltech November Quarterly Ground Water Sampling

and Analysis

Former Shell Station

7194 Amador Valley Boulevard

Dublin, California December 20, 1990

Exceltech February 1991 Quarterly Ground Water

Monitoring Report Former Shell Station

7194 Amador Valley Boulevard

Dublin, California April 3, 1991

Exceltech May 1991 Quarterly Ground Water

Monitoring Report Former Shell Station

7194 Amador Valley Boulevard

Dublin, California August 8, 1991

Exceltech August 1991 Quarterly Ground Water

Monitoring Report Former Shell Station

7194 Amador Valley Boulevard

Dublin, California September 30, 1991

RESNA November 1991 Quarterly Ground Water

Monitoring Report Former Shell Station

7194 Amador Valley Boulevard

Dublin, California January 28, 1992

Pacific Environmental

Group

Former Shell Service Station 7194 Amador Valley Boulevard

Dublin, California

WIC No. 204-2277-0105 April 21, 1992

Pacific Environmental

Group

Former Shell Service Station

7194 Amador Valley Boulevard

Dublin, California

WIC No. 204-2277-0105 June 30, 1992

Pacific Environmental

Group

Former Shell Service Station 7194 Amador Valley Boulevard

Dublin, California

WIC No. 204-2277-0105 October 6, 1992

Pacific Environmental

Group

Former Shell Service Station

7194 Amador Valley Boulevard

Dublin, California

WIC No. 204-2277-0105 January 4, 1993

### enviros

Pacific Environmental

Group

Former Shell Service Station 7194 Amador Valley Boulevard

Dublin, California WIC No. 204-2277-0105

March 24, 1993

Pacific Environmental

Group

Former Shell Service Station 7194 Amador Valley Boulevard Dublin, California WIC No. 204-2277-0105

June 24, 1993

Pacific Environmental

Group

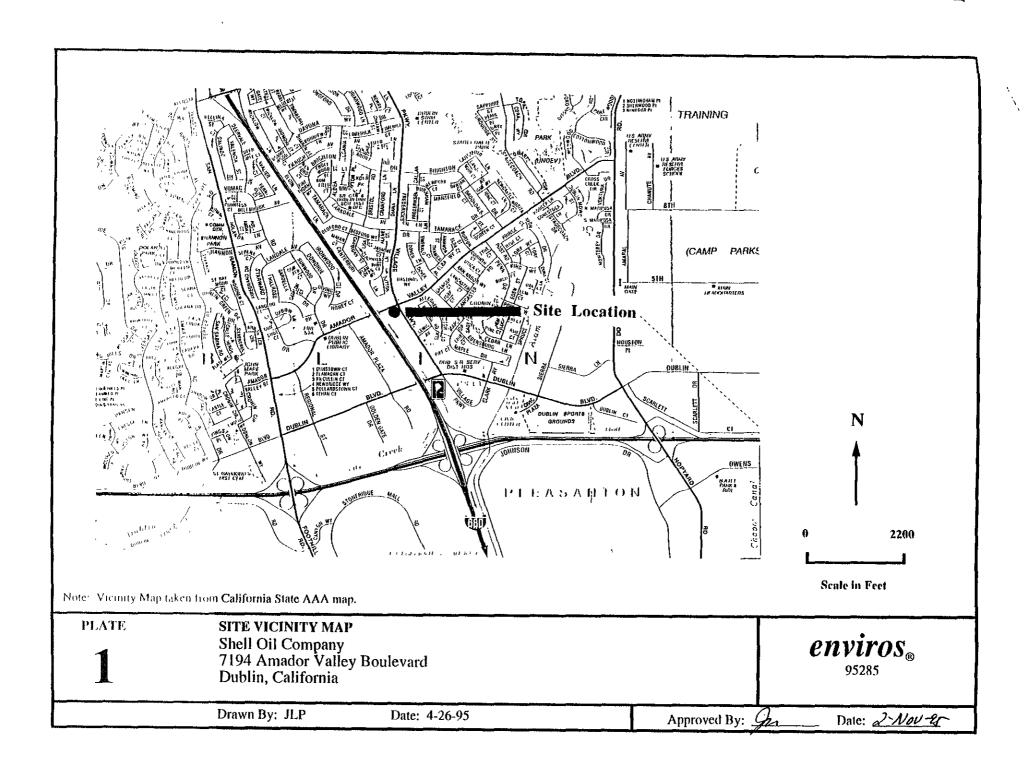
Quarterly Reports

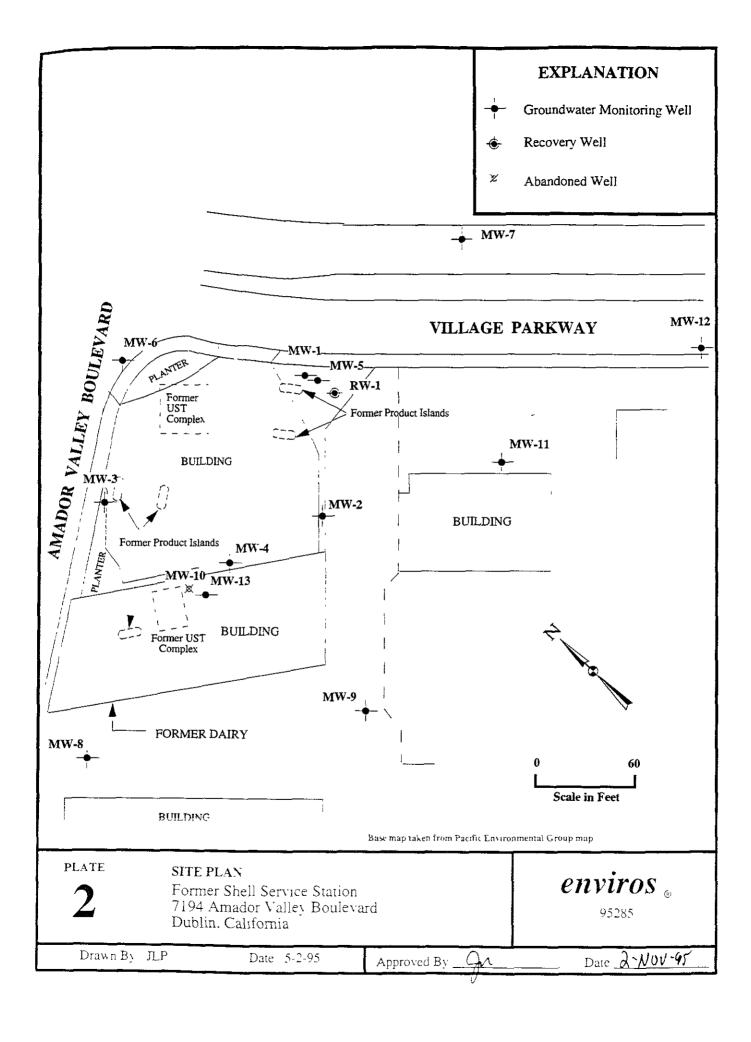
11/93 to 4/95

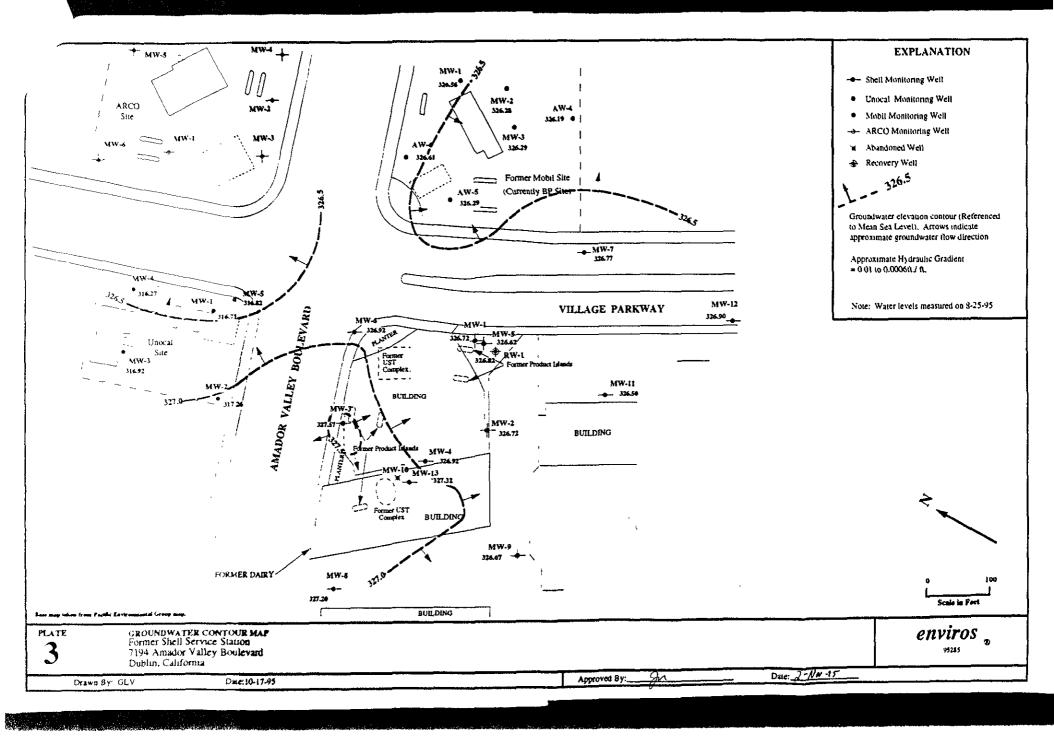
Enviros, Inc.

Quarterly Reports

6/95 to 11/95

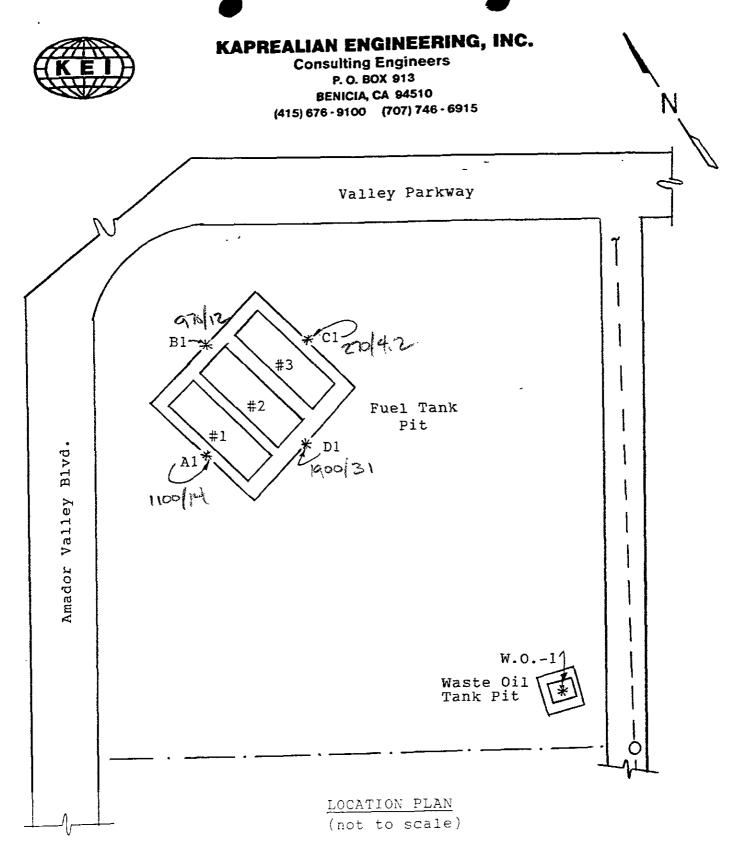






### APPENDIX A

Soil Analytical Data & Figures



soil sample
 location

ABANDONED SHELL S/S
7194 Amador Valley Blvd.
Dublin, California



P.O. Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Sample Description

Date Sampled:

Date Received:

Date Reported:

Soil #Al

Shell at 7194 Amador Valley Blvd.

08-03-87

08-04-87

08-06-87

in Dublin, CA

Sample Number

7080041

#### ANALYSIS

	Detection	Sample <u>Results</u> ppm
Total Hydrocarbons as Gasoline	1	1,100
Benzene	0.1	14
Toluene	0.1	4.5
Xylenes	0.1	37

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY '

Arthur G. Burton Laboratory Director

jao



P.O. Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Sample Number

7080042

Date Sampled: 08-03-87 08-04-87 Date Received:

Date Reported:

08-06-87

Sample Description

Soil # Bl

Shell at 7194 Amador Valley Blvd.

in Dublin, CA

#### ANALYSIS

	Detection	Sample Results ppm
Total Hydrocarbons as Gasoline	1	970
Benzene	0.1	12
Toluene	0.1	22
Xylenes	0.1	60

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY



P.O. Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Sample Number

7080043

Date Sampled: 08-03-87
- Date Received: 08-04-87

Date Reported: 08-06-87

Sample Description

Soil # Cl

Shell at 7194 Amador Valley Blvd.

in Dublin, CA

#### ANALYSIS

•	DetectionLimit	Sample Results ppm
Total Hydrocarbons as Gasoline	1	270
Benzene	0.1	4.2
Toluene	0.1	0.45
Xylenes	0.1	2.7

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY



P.O. Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Sample Description

Date Sampled:

Date Received:

Date Reported:

Soil # Dl

Shell at 7194 Amador Valley Blvd.

08-03-87

08-04-87

08-06-87

in Dublin, CA

## Sample Number

7080044

#### ANALYSIS

	Detection	Sample Results ppm
Total Hydrocarbons as Gasoline	1	1,900
Benzene	0.1	31
Toluene	0.1	5.5
Xylenes	0.1	36

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY



P.O. Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

Sample President

Number

Sample

Description

Date Sampled:

08-03-87

Date Received:

08-04-87

Date Reported:

08-21-87

Detection

Gravimetric Waste Oil

Limit

ppm

as Petroleum Oil

ppm

7080054

Soil W.O.-1

Shell at 7194

Amador Valley Blvd.

in Dublin, CA

30

75

Analysis was performed using EPA extraction method 3550 with NOTE:

Trichlorotriflouroethane as solvent, and gravimetric determination

by standard methods 503E.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton Laboratory Director

jao



P.O. Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 08-03-87

Date Received: 08-04-87

- Date Reported: 08-21-87

Sample Number Sample Description Detection Limit Total Hydrocarbons as Diesel

ppm

ppm

7080054

Soil W.O.-l

Shell at 7194 Amador Valley Blvd.

in Dublin, CA

1

45

NOTE: Analysis was performed using EPA methods 3550 and 8015.

SEQUOIA ANALYTICAL LABORATORY



P.O. Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 08-03-87
Date Received: 08-04-87
Date Extracted: 08-17-87
Date Reported: 08-21-87

#### Sample Number

7080054

#### PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS results in ppb

#### Sample Description

Soil W.O.-1 Shell at 7194 Amador Valley Blvd. in Dublin, CA

Acrolein	< 10,	000	trans-1,2-Dichloroethene	<	50
Acrylonitrile	< 10,	000	1,2-Dichloropropane	<	50
Benzene	<	50	1,3-Dichloropropene	<	50
Bromomethane	<	50	Ethylbenzene		
Bromodichloromethane	<	50	Methylene chloride	<	50
Bromoform	<	50	1,1,2,2-Tetrachloroethane	<	50
Carbon tetrachloride	<	50	Tetrachloroethene	<	50
Chlorobenzene	<	50	1,1,1-Trichloroethane	<	50
Chloroethane	<	50	1,1,2-Trichloroethane	<	50
2-Chloroethylvinyl ether	<	50	Trichloroethene	<	50
Chloroform	<	50	Toluene		
Chloromethane	<	50	Vinyl chloride	<	50
Dibromochloromethane	<	50			50
1,1-Dichloroethane	<	50	1,3-Dichlorobenzene	<	50
1,2-Dichloroethane	<	50	1,4-Dichlorobenzene		
1,1-Dichloroethene		50	•		

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton Laboratory Director NOTE: Methods 8010 & 8020 of the EPA were used for this analysis.

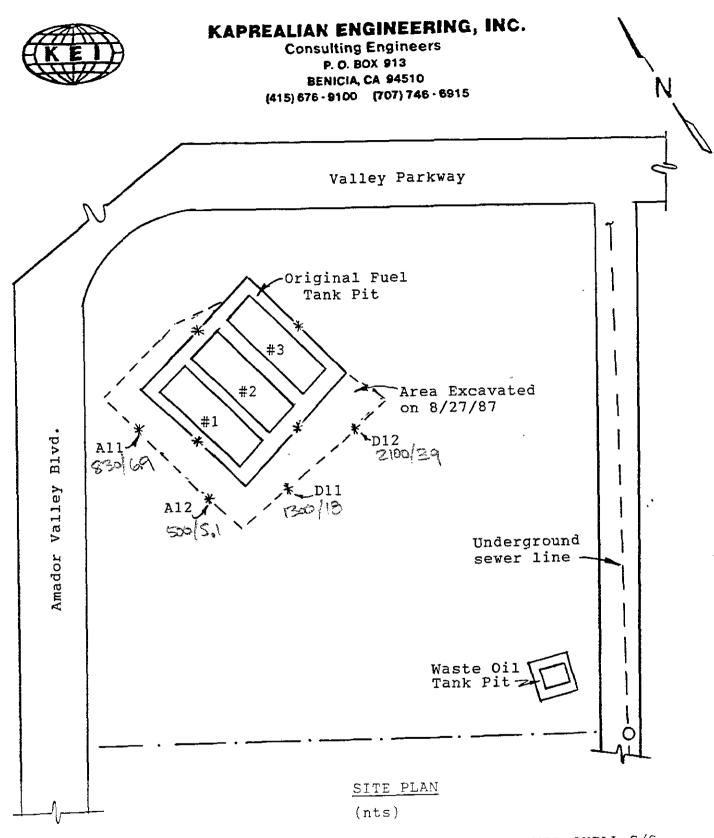
KEI-J87-083 August 11, 1987 Page 5

TABLE 1
SUMMARY OF LABORATORY ANALYSES

(Soil analyses in parts per million, Water analysis in parts per billion)

Sample #	<u>Type</u>	Total <u>Hydrocarbon</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>
A1	soil	1100	14	4.5	37
B1	soil	970	12	22	60
C1	soil	270	4.2	0.45	2.7
D1	soil	1900	31	5.5	36
W.O1*	soil	45	<0.05	<0.05	
W1	water	85,000	1,400	3,600	11,000

<sup>\*</sup> Gravimetric waste oil for this sample was 45 ppm.



\* soil sample
location

ABANDONED SHELL S/S 7194 Amador Valley Blvd. Dublin, California



P.O: Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Sample Number

7082239

Date Sampled:

08/27/87

Date Received:

08/28/87

Date Reported: 09/01/87

Sample Description

Shell - Dublin,

Soil A-11

#### ANALYSIS

	Detection Limit ppm	Sample Results ppm
Total Hydrocarbons as Gasoline	1	830
Benzene	0.1	6.9
Toluene	0.1	7.7
Xylenes	0.1	30

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton Laboratory Director

sls



P.O: Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Sample Description

Date Sampled: 08/27/87

Date Received: 08/28/87

Date Reported: 09/01/87

Shell - Dublin,

Soil A-12

Sample Number

7082240

#### ANALYSIS

	Detection Limit ppm	Sample Results ppm
Total Hydrocarbons as Gasoline	1 .	500
Benzene	0.1	5.1
Toluene	0.1	18
Xylenes	0.1	36

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY

P.O: Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Sample Number

7082241

Date Sampled: 08/27/87 Date Received: 08/28/87

Date Reported: 09/01/87

Sample Description

Shell - Dublin,

Soil D-11

#### ANALYSIS

•	Detection Limit ppm	Sample Results ppm
Total Hydrocarbons as Gasoline	1	1,300
Benzene	0.1	18
Toluene	0.1	23
Xylenes	0.1	69

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOLA ANALYTICAL LABORATORY

Arthur G. Burton Laboratory Director

sls

P.O. Box 913

Benicia, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Sample Number

7082242

Date Sampled: 08/27/87 Date Received: 08/28/87 Date Reported: 09/01/87

Sample Description

Shell - Dublin,

Soil D-12

#### ANALYSIS

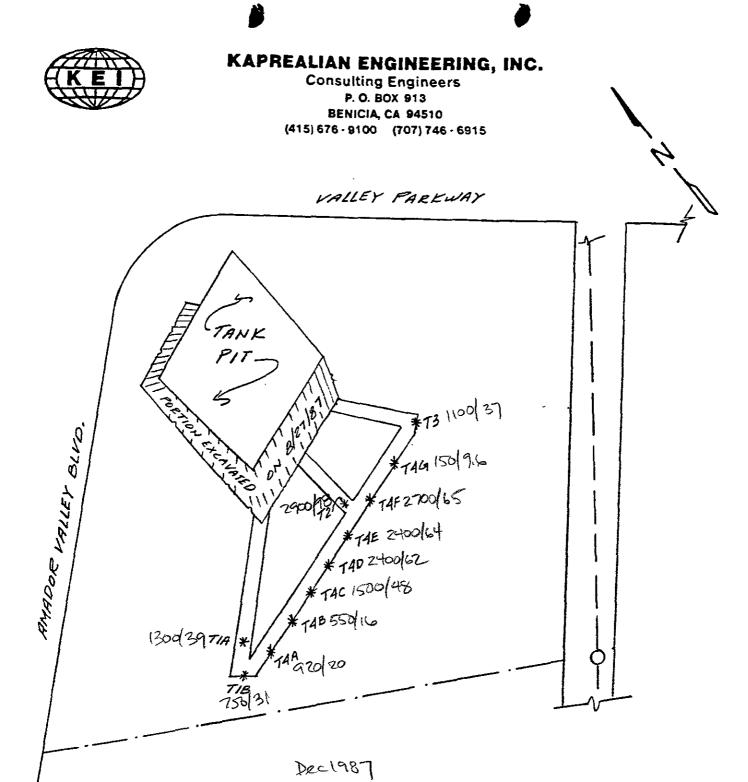
•	Detection Limit ppm	Sample Results ppm
	1	2,100
Total Hydrocarbons as Gasoline	0.1	. 39
Benzene	0.1	91
Toluene		59
Xylenes	0.1	

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton Laboratory Director

sls



LOCATION PLAN
APPROX. SCALE 1"= 30'

\* SOIL SAMPLE LOCATION

SHELL SERVICE STATION 7194 AMADOR VALLEY BLYD DUBLIN, CALIF.

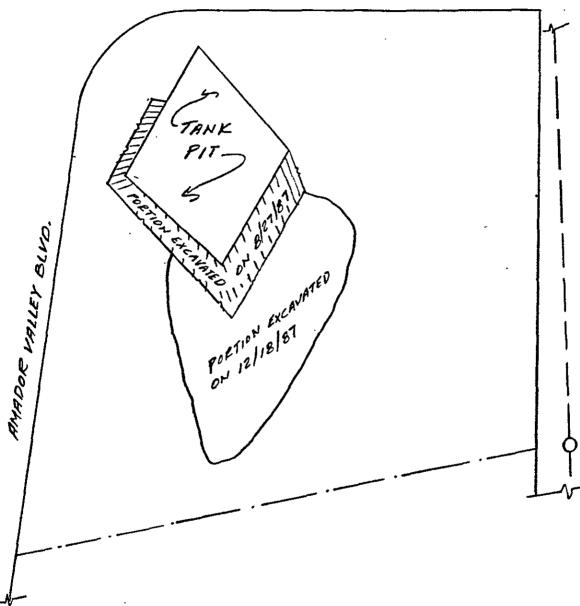
FIGURE 1



# KAPREALIAN ENGINEERING, INC.

Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676 - 9100 (707) 746 - 6915

VALLEY PARKWAY



LOCATION PLAN
APPROX. SCALE 1"= 30"

\* SOIL SAMPLE LOCATION

SHELL SERVICE STATION
7194 AMADOR VALLEY BLVD
DUBLIN, CALIF.

FIGURE 2

P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 12-17-87

Date Received: 12-17-87

Date Reported:12-18-87

Sample Number

127041

Sample Description

Shell

Dublin

T1-A SOIL

## ANALYSIS

	Detection Limit ppm	Sample Results  ppm
Total Petroleum Hydrocarbons as Gasoline	1	1,300
Benzene	0.1	39
Toluene	0.1	37
Xylenes	0.1	180
Ethylbenzene	0.1	34

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 12-17-87 Date Received: 12-17-87

Date Reported: 12-18-87

Sample Number

127042

Sample Description

Shell

Dublin

T1-B SOIL

#### ANALYSIS

Sample Detection Results Limit ppm ppm 750 1 Total Petroleum Hydrocarbons as Gasoline 31 0.1 Benzene 37 0.1 Toluene 170 0.1 Xylenes 32 0.1

Analysis was performed using EPA methods 5020 and 8015 with Note: method 8020 used for BTX distinction.

HAZCAT

Ethylbenzene

Ronald G. Lab Director



P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled:12-17-87 Date Received:12-17-87

Date Reported: 12-18-87

Sample Number

127043

Sample Description

Shell Dublin

T-2 SOIL

# ANALYSIS

	Detection Limit ppm	Sample Results ppm
Total Petroleum Hydrocarbons as Gasoline	1	2,900
Benzene	0.1	98
Toluene	0.1	120
	0.1	480
Xylenes		87
Ethylbenzene	0.1	0 7

Note:

Analysis was performed using EPA methods 5020 and 8015 with

method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans



# **HAZCAT** Mobile Organics Lab

733 Dartmouth Avenue San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.

P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 12-17-87 Date Received: 12-17-87

Date Reported: 12-18-87

Sample Number

127044

Sample Description

Shell

Dublin

T-3 SOIL

## ANALYSIS

	Detection Limit ppm	Sample Results  ppm
Total Petroleum Hydrocarbons as Gasoline	. 1	1,100
	0.1	37
Benzene	0.1	44
Toluene	0.1	150
Xylenes		30
Ethylbenzene	0.1	

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans

P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled:12-17-87 Date Received: 12-17-87 Date Reported: 12-18-87

Sample Number

127045

Sample Description

Shell Dublin

SOIL T4-A

## ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1	920
	0.1	20
Benzene	0.1	3.5
Toluene	0.1	61
Xylenes		15
Ethylbenzene	0.1	10

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 12-17-87 Date Received: 12-17-87 Date Reported: 12-18-87

Sample Number

127046

Sample Description

Shell Dublin

SOIL T4-B

## ANALYSIS

	Detection Limit 	Sample Results  ppm
Total Petroleum Hydrocarbons	1	550
as Gasoline	0.1	16
Benzene	0.1	3.6
Toluene	0.1	50
Xylenes	0.1	10
Ethylbenzene	V • 2	4 **

Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans



P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 12-17-87 Date Received: 12-17-87 Date Reported:12-18-87

Sample Number

127047

Sample Description

Shell Dublin

SOIL T4-C

## ANALYSIS

	Detection Limit ppm	Sample Results  ppm
Total Petroleum Hydrocarbons	1	1,500
as Gasoline	0.1	48
Benzene	0.1	11
Toluene	0.1	160
Xylenes		40
Ethylbenzene	0.1	

Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction. Note:

HAZCAT

P.O. BOX 913

Benicia "CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 12-17-87
Date Received: 12-17-87

Date Reported: 12-18-87

Sample Number

127048

Sample Description

Shell

Dublin

T4-D SOIL

#### ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1	2,400
Benzene	0.1	62
Toluene	0.1	75
Xylenes	0.1	270
Ethylbenzene	0.1	52

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans

733 Dartmouth Avenue San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.

P.O. BOX 913

Benicia -, CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 12-17-87 Date Received: 12-17-87 Date Reported: 12-18-87

Sample Number

127049

Sample Description

Shell Dublin

SOIL T4-E

# ANALYSIS

=:		
	Detection Limit	Sample Results
	 ppm	ppm
Total Petroleum Hydrocarbone	-	2,400
as Gasoline	0.1	64
Benzene	0.1	82
Toluene	0.1	360
Xylenes	0.1	54
Ethylbenzene		20 and 8015 t

Analysis was performed using EPA methods 5020 and 8015 with Ethylbenzene method 8020 used for BTX distinction. Note:

HAZCAT

Ronald G. Evans



P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 12-17-87 Date Received: 12-17-87 Date Reported: 12-18-87

Sample Number

127050

Sample Description

Shell Dublin

SOIL T4-F

# ANALYSIS

	Detection Limit	Sample Results
	<b>ppm</b>	ppm
Total Petroleum Hydrocarbons	1	2,700
as Gasoline	0.1	65
Benzene	0.1	84
Toluene	0.1	400
Xylenes	0.1	66
Ethylbenzene		5020 and 8015 W

Analysis was performed using EPA methods 5020 and 8015 with

method 8020 used for BTX distinction.

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Ronald G. Evans

P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 12-17-87 Date Received: 12-17-87 Date Reported: 12-18-87

Sample Number

127051

Sample Description

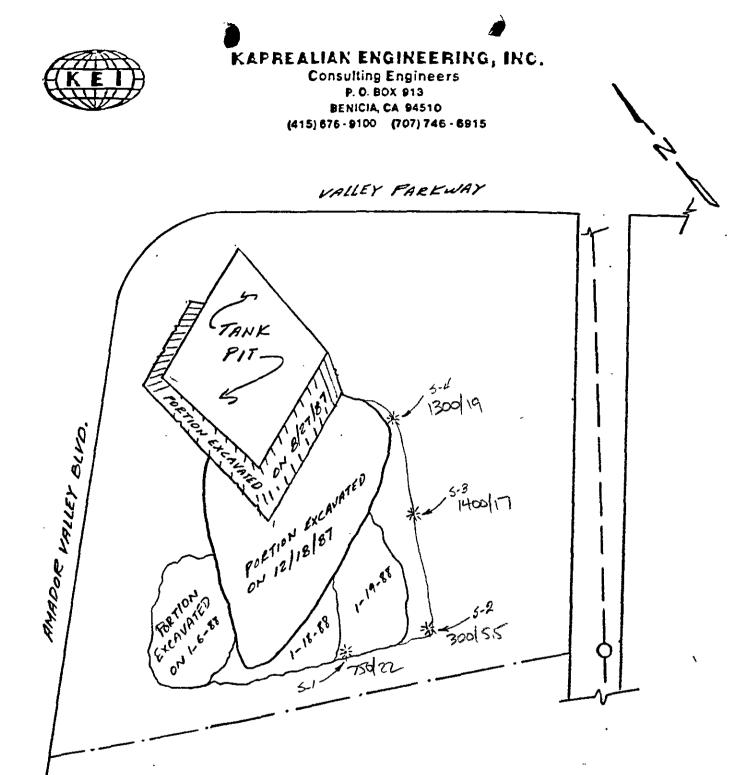
Shell Dublin SOIL T4-G

## ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons	1	150
as Gasoline	0.1	9.6
Benzene	0.1	14
Toluene	0.1	28
Xylenes		6.0
Ethylbenzene	0.1	0015 <del>V</del> i

Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT



LOCATION PLAN

\* SOIL SAMPLE LOCATION

SHELL SERVICE STATION
7194 AMADOR VALLEY BLYD
DUBLIN, CALIF.

FIGURE 4

P.O. BOX 913

Benicia , CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 02-01-88

Date Received: 02-02-88

Date Reported:02-02-88

Sample Number

028001

Sample Description

Shell-Dublin

S-1 SOIL

# ANALYSIS

	Detection Limit	Sample Results	
	PPm	ppm	
Total Petroleum Hydrocarbons as Gasoline	1	750	
Benzene	0.1	22	
Toluene	0.1	34	
Xylenes	0.1	180	
Ethylbenzene	0.1	25	

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 02-01-88

Date Received: 02-02-88
Date Reported: 02-02-88

Sample Number

028002

Sample Description

Shell-Dublin

S-2

SOIL

## ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1	300
Benzene	0.1	5.5
Toluene	0.1	1.8
Xylenes	0.1	98
Ethylbenzene	0.1	18

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 02-01-88

Date Received: 02-02-88

Date Reported: 02-02-88

Sample Number

028003

Sample Description

Shell-Dublin

S-3 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	PPm
Total Petroleum Hydrocarbons as Gasoline	1 .	1,400
Benzene	0.1	17
Toluene	0.1	33
Xylenes	0.1	240
Ethylbenzene	0.1	45

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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P.O. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 02-01-88

Date Received: 02-02-88

Date Reported: 02-02-88

40

Sample Number

028004

Sample Description

Shell-Dublin

S-4 SOIL

ANALYSIS

Detection Sample Limit Results ppm ppmTotal Petroleum Hydrocarbons 1 1,300 as Gasoline Benzene 0.1 19 Toluene 0.1 34 Xylenes 0.1 230 Ethylbenzene 0.1

Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

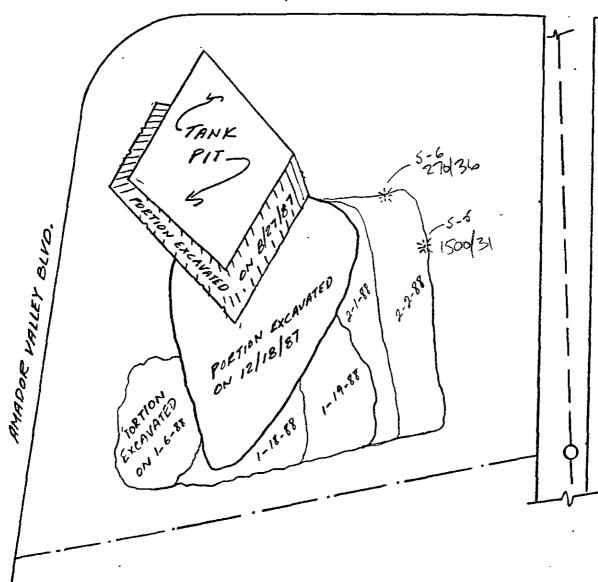
HAZCAT



## KAPREALIAN ENGINEERING, INC.

Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676-9100 (707) 746-6915

VALLEY PARKWAY



LOCATION PLAN

\* SOIL SAMPLE LOCATION

SHELL SERVICE STATION
7194 AMADOR VALLEY BLVD
DUBLIN, CALIF.

P.O. BOX 913

Benicia , CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled:02-03-88

Date Received: 02-03-88

Date Reported:02-03-88

Sample Number

028008

Sample Description

Shell-Dublin

Amador & Village Pkwy.

S-5 SOIL

## ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1	1,500
Benzene	0.1	31
Toluene	0.1	56
Xylenes	0.1	280
Ethylbenzene	0.1	51

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans

733 Dartmouth Avenue San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.

P.Ö. BOX 913

Benicia ,CA 94510

Attn: Mardo Kaprealian, P.E.

President

Date Sampled: 02-03-88 Date Received: 02-03-88 Date Reported: 02-03-88

Sample Number

028009

Sample Description

Shell-Dublin

Amador & Village Pkwy.

S-6 SOIL

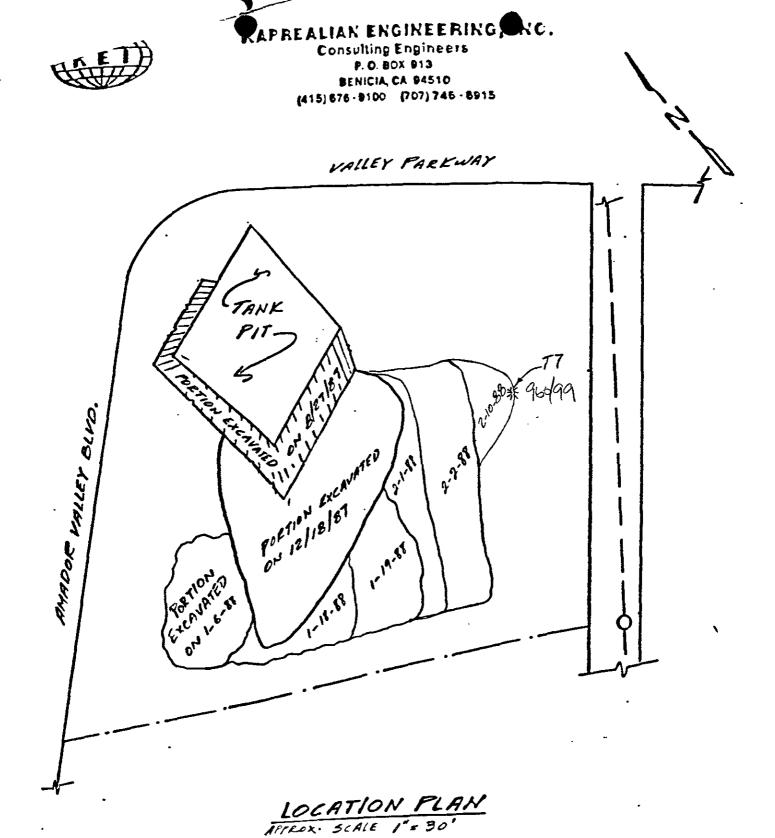
### ANALYSIS

-----

	Detection Limit	Sample Results	
	ppm	ppm	
Total Petroleum Hydrocarbons as Gasoline	1	270	
Benzene	0.1	36	
Toluene	0.1	44	
Xylenes	0.1	75	
Ethylbenzene	0.1	12	

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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\* SOIL SAMPLE LOCATION

SHELL SERVICE STATION
7194 AMADOR VALLEY BLVD
DUBLIN, CALIF.

FIGURE 6

KEI-J87-083-4 February 17, 1988 Page 3

TABLE -1 Summary of Laboratory Analyses (Results in ppm)

Date	Sample <u>Number</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>	<u>Ethylbenzene</u>
2-08-88	<b>T-</b> 7	960	99	99	260	42
2-10-88	Comp A	2.3	0.3	1.4	16	2.4

# TABLE 1 RESULTS OF ANALYSES FOR SOIL AND GROUND WATER

#### FORMER SHELL SERVICE STATION 7194 AMADOR VALLEY BLVD DUBLIN, CALIFORNIA

					ANALYTICAL RESULTS (ppb)			
SAMPLE	SAMPLE	DEPTH OF	SAMPLE	TVH	BENZENE	TOLUENE	XYLENES	
LOCATION	NUMBER	SAMPLE	MATRIX					
MW-1	SDC-1002	9-10.5 FT.	SOIL	18,000	160	190	1,300	
	SDC-1027	**	WATER	440	120	50	120	
MW-2	SDC-1007	9-10.5 FT.	SOIL.	95,000	1,500	410	11,000	
	SDC-1028		WATER	ND<50	ND<0.5	ND<0.5	ND<0.5	
MW-3	SDC-10012	10-11,5 FT.	SOIL.	270,000	5,700	1,200	30,000	
	SDC-1029	••	WATER	76	10	4.40	15	
MW-4	SDC-1017	10-11.5 FT.	SOIL.	290,000	3,800	10,000	23,000	
	SDC-1030		WATER	290	76	33	150	

TVH = Total Volatile Hydrocarbons

ppb = parts per billion

ND<0.5 = None Detected Above Indicated Detection Limit

Current California Department Of Health Services

Action Levels For Water:

Benzene 0.7 ppb

Toluene 100 ppb

Xylenes 620 ppb

Note: Subject to change at DOHS discretion.

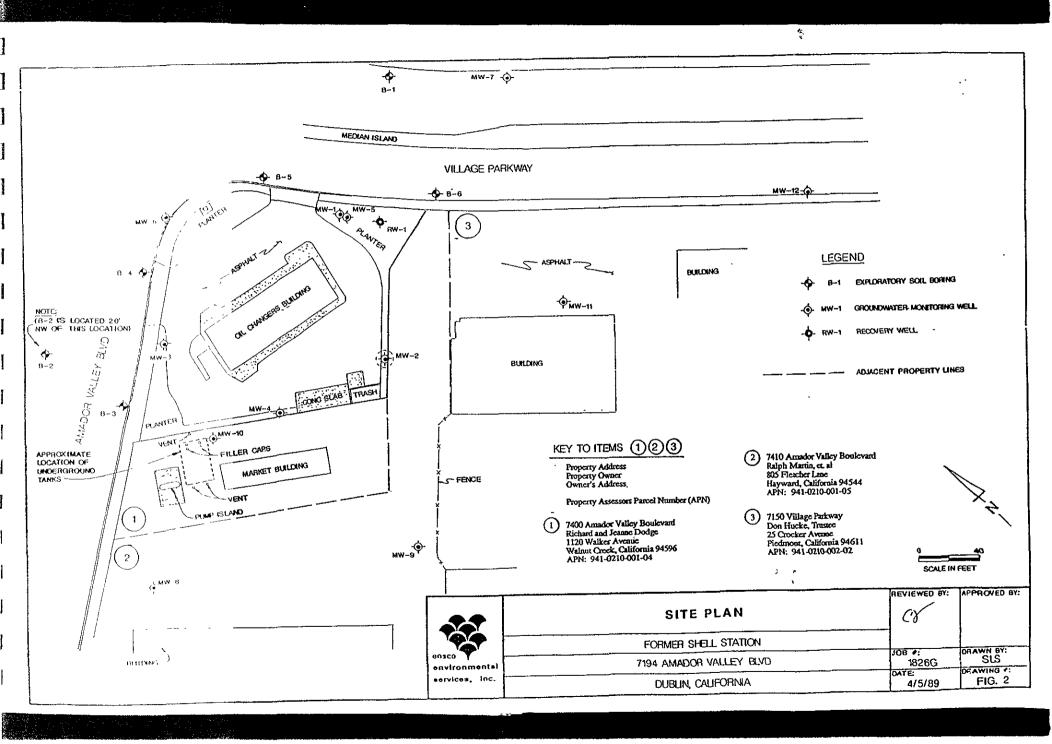
TABLE 2
SOIL ANALYSIS RESULTS SUMMARY

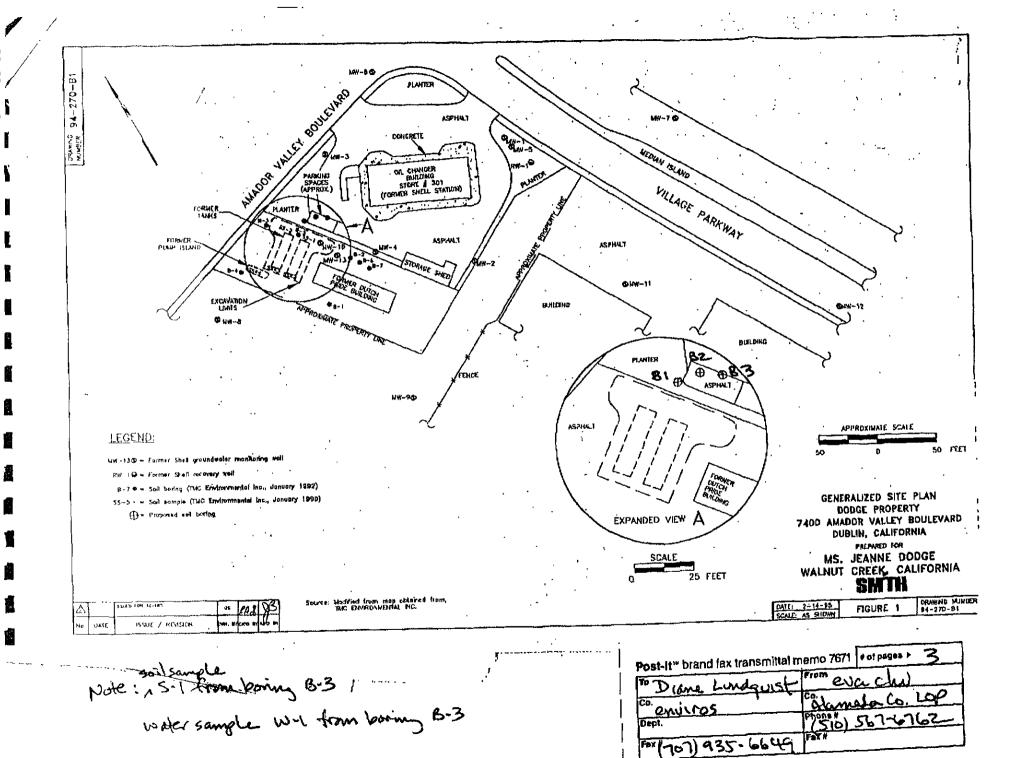
Contaminants (ppm)

Sample <u>Location</u>	Approximate <u>Depth (ft.)</u>	<u> </u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xvlene</u>
B-1	COMP	ND	NA	NA	NA
B-1	8	22	NA	NA	NA
B-2	COMP	ND	NA	NA	NA
B-3	COMP	ND	NA	NA	NA
B-4	COMP	ND	NA	NA	NA
B-5	COMP	ND	NA	ŅA	NA
B-5	8	420	9.8	1.8	36
B-5	10	43	NA	NA	NA
B-5	12	170	9.3	1.3	14
B-5	13	10	NA	NA	NA
B-6	COMP	ND	NA	NA	NA
B-6	7	66	4.8	5.6	1.8
B-6 .	· <b>-</b> 9	540	3.9	6.4	42
В-6	10	130	ND	1.3	11
B-6	12	14	NA	NA	NA
B-6	13	ND	NA	NA	NA
MW-6	COMP	ND	NA	NA	NA
MW-6	10	11	NA	NA	NA
MW-6	12	75	NA	NA	NA
MW-7	COMP	ND	NA	NA	NA
RWQCB Prio	ority Level (Ref. 9.3)	100	None	None	None
~	raisal Limits (Ref. 9.4	) None	100	80	40

#### NOTES:

- 1. See Figure 2 for monitoring well and soil boring locations.
- 2. COMP: The sample analyzed was a composite of samples from several depths
- 3 ND: Not detected using ÉPA standard laboratory procedure.
- 4. NA: The sample was not analyzed for that compound





#### TABLE 2

# LABORATORY ANALYTICAL RESULTS - WATER OIL CHANGER PROPERTY DUBLIN, CALIFORNIA

	Sample Number	Date Sampled	TPH-G (ppb)	. Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
grado Gwangle		9/5/95	120,000	19,000	12,000	2,600	15,000
mass te same		9/5/95	< 250	< 2,5	< 2.5	. < 2.5	< 2.5

#### Notes:

TPH-G Total petroleum hydrocarbons as gasoline

ppb Parts per billion (ug/l)

Less than listed laboratory detection limit in ppb



# APPENDIX B

Ground Water Monitoring and Sampling Data Summary

KEI-J87-083 August 11, 1987 Page 5

TABLE 1
SUMMARY OF LABORATORY ANALYSES

(Soil analyses in parts per million, Water analysis in parts per billion)

e		Total <u>Hydrocarbon</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>
<u>Sample #</u>	Type	HYGIOCALDON	<u></u>		
Al	soil	1100	14	4.5	37
B1	soil	970	12	22	60
C1	soil	270	4.2	0.45	2.7
D1	soil	1900	31	5.5	36
W.O1*	soil	45	<0.05	<0.05	
W1	water	85,000	1,400	3,600	11,000

<sup>\*</sup> Gravimetric waste oil for this sample was 45 ppm.

#### TABLE 1 RESULTS OF ANALYSES FOR SOIL AND GROUND WATER

#### FORMER SHELL SERVICE STATION 7194 AMADOR VALLEY BLVD **DUBLIN, CALIFORNIA**

				ANALYTICAL RESULTS (ppb)			
SAMPLE OCATION	SAMPLE Number	DEPTH OF SAMPLE	SAMPLE Matrix	TVH	BENZENE	TOLUENE	XYLENES
MW-1	SDC-1002	9-10.5 FT.	SOIL	18,000	160	190	1,300
	SDC-1027		WATER	440	120	50	120
MW-2	SDC-1007	9-10.5 FT.	SOIL	95,000	1,500	410	11,00
	SDC-1028	**	WATER	ND<50	ND<0.5	ND<0.5	ND<0.
MW-3	SDC-10012	10-11.5 FT.	SOIL	270,000	5,700	1,200	30,00
	SDC-1029		WATER	76	10	4.40	1.
MW-4	SDC-1017	10-11.5 FT,	SOIL.	290,000	3,800	10,000	23,00
	SDC-1030	w.e	WATER	290	76	33	15

TVH = Total Volatile Hydrocarbons

ppb = parts per billion

ND<0.5 = None Detected Above Indicated Detection Limit

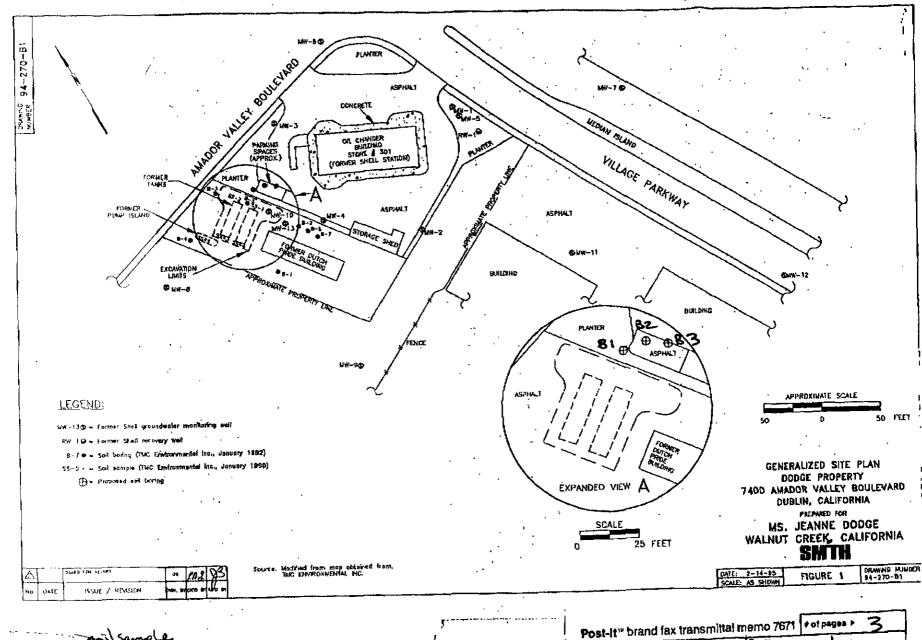
Current California Department Of Health Services

Action Levels For Water:

Benzene 0.7 ppb Toluene 100 ppb

Xylenes 620 ppb

Note: Subject to change at DOHS discretion.



Note: 15-1 fram boing B-3 / water sample W-1 from boing B-3

Post-It" brand fax transmittal m	emo 7671   + of pages   5
To Diane Lundquist	from eva chi
co. enviros	Colamata Co. LOP
Dept.	1510) 567-6762
Fax (707) 935-6649	FaX#

#### TABLE 1

# LABORATORY ANALYTICAL RESULTS - SOIL OIL CHANGER PROPERTY DUBLIN, CALIFORNIA

	Sample Number	Date Sampled	Sample Depth (feet)	TPH-G (ppm)	Benzena (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	Total Lead (ppm)
	S-1	9/5/95	12	1,100	8.4	35	17	99	NR
١	SC-1	9/5/95	NA	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 5.0

#### Notes:

TPH-G Total petroleum hydrocarbons as gasoline

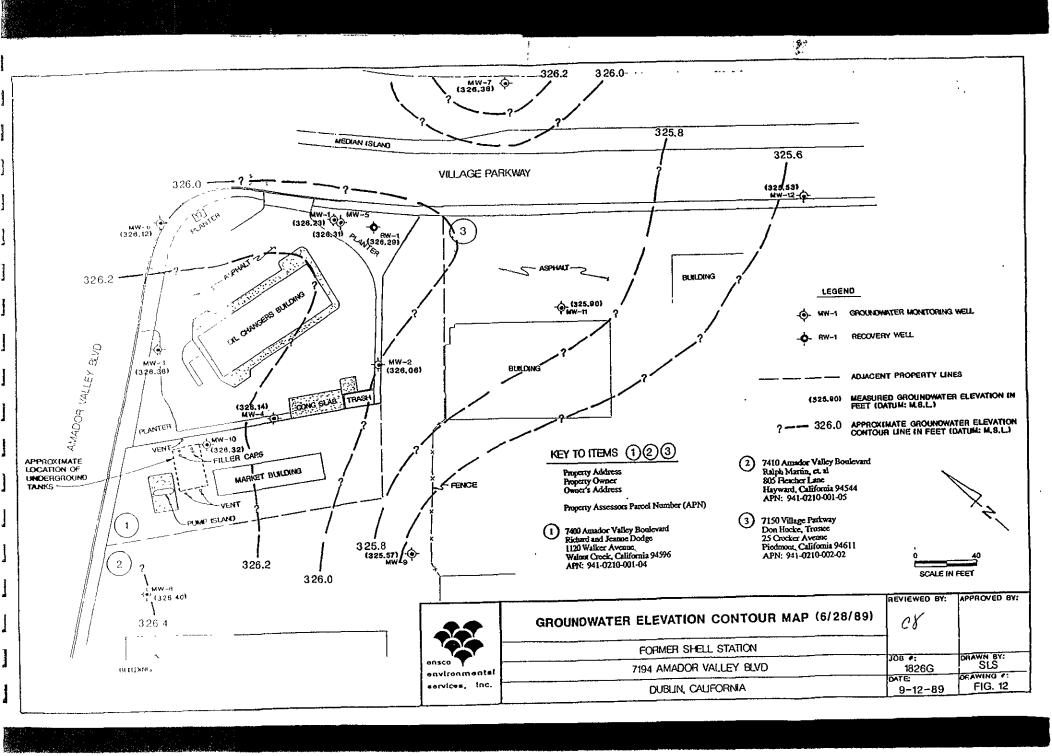
ppm Parts per million (kg/mg)

< Less than listed laboratory detection limit in ppm

NA Not applicable

Analyses not required





## FIELD MONITORING DATA

		204-2277-0105	
The second section and the second section is the second section and the second section is the second section and the second section is the second section section and the second section secti	ONT: CASING	WELL DEPTH TO PRODUCT	WATER
S NO. → Z Z D		ELEV. WATER THICKNESS	ELEV.
	(IN.)	(FT.) (FT.)	(FT.)
MW-1 9-M	1ay-88 4.0	334.83 8.72	326.11
26-7	Aug-88	9.15	325.68
5-0	Oct-88	8.54	326.29
22-1	Nov-88	9.31	325.52
9-1	Dec-88	9.33	325.50
13-	Jan-89	NM	NM
10-3	Feb-89	8.51	326.32
2-1	Лаг-89	8.71	326.12
4-4	Apr-89	7.93	326.90
1-N	Лау-89	8.43	326.40
1-J	Jun-89	8.56	326.27
29-	Jun-89	8.60	326.23
9-4	Aug-89	8.43	326.40
11-	Sep-89	8.65	326.18
10-	Oct-89	8.52	326.31
25-	Oct-89	8.56	326.27
20-	Dec-89	8.80	326.03
17-	-Jan-90	8.47	326.36
23-	Feb-90	8.25	326.58
4-]	Jun-90	8.62	326.21
20-	Nov-90	9.50	325.33
12-	Feb-91	9.51	325.32
6-1	May-91	8.34	326.49
28-	Aug-91	9.28	325.55
13-	Nov-91	9.59	325.24
25-	Feb-92	7.49	327.34
12-	May-92	8.64	326.19
12-	Aug-92	9.15	325.68
10-	Nov-92	10.04	324.79
10-	-Feb-93	7.24	327.59
10-	May-93	7.78	327.05
12-	Aug-93	8.54	326.29
11-	Nov-93	8.56	326.27
11-	-Feb-94	8.62	326.21
17-	May-94	7.96	326.87
	Aug-94	9.24	325.59
	Nov-94	8.74	326.09
	-Feb-95	6.84	327.99
24-	May-95	7.91	326.92

### FIELD MONITORING DATA

20 100	WIC 204-2277-0105								
WELL	MONT:	CASING WELL DEPTH TO PRODUCT	WATER						
NO.	DATE	DIA ELEV. WATER THICKNESS	ELEV.						
12:00 00 70 12:00 15		(IN) (FI.) (FI.)	(FT.)						
MW-1 (cont.)	25-Aug-95		326.72						
MW-2	9-May-88	4.0 336.96 10.85	326.11						
	26-Aug-88	11.29	325.67						
	5-Oct-88	10.83	326.13						
	22-Nov-88	11.42	325.54						
	9-Dec-88	11.45	325.51						
	13-Jan-89	NM	NM						
	10-Feb-89	10.74	326.22						
	2-Mar-89	10.91	326.05						
	<b>4-Apr-8</b> 9	10.06	326.90						
	1- <b>May-</b> 89	10.58	326.38						
	31-May-89	10.73	326.23						
	28-Jun-89	10.90	326.06						
	8-Aug-89	10.78	326.18						
İ	8-Sep-89	10.97	325.99						
	9-Oct-89	10.88	326.08						
	24-Oct-89	11.00	325.96						
	21-Dec-89	11.06	325.90						
	1 <b>7-Jan-9</b> 0	10.78	326.18						
	23-Feb-90	10.35	326.61						
	4-Jun-90	10.72	326.24						
	20-Nov-90	11.35	325.61						
<u> </u>	12-Feb-91	11.64	325.32						
	6-May-91	10.05	326.91						
	28-Aug-91	11.16	325.80						
	13-Nov-91	11.57	325.39						
	25-Feb-92	9.66	327.30						
	12-May-92	10.97	325.99						
	12-Aug-92	11.58	325.38						
İ	10-Nov-92	12.05	324.91						
	10-Feb-93	9.28	327.68						
	10-May-93	9.65	327.31						
	12-Aug-93	10.70	326.26						
	11 <b>-N</b> ov-93	11.36	325.60						
	11-Feb-94	11.04	325.92						
	17 <b>-M</b> ay-94	10.29	326.67						
	25-Aug-94	11.29	325.67						
	23-Nov-94	10.92	326.04						
	15-Feb-95	8.90	328.06						

# FIELD MONITORING DATA

			<del>204-2277-</del> 0			
WELL	MONT.					WATER
NO.	DATE	C - 2 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2	C-12	to the transfer which we are	THICKNESS	ELEV.
		(IN.)	(FT.)	(FT.) % -	∂# <b>(FT.)</b>	(FT.)
MW-2 (cont.)	24-May-95	· M (Comment of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of th	en en en en en en en en en en en en en e	10.02	e district to	326.94
	25-Aug-95			10.24	· 连连接着"老宝	326.72
MW-3	9-May-88	4.0	336.96	10.59		326.37
	26-Aug-88			11.10		325.86
	5-Oct-88			10.43		326.53
ŀ	22-Nov-88			11.16		325.80
ļ	9-Dec-88			11.24		325.72
	13-Jan-89			NM		NM
1	10-Feb-89			10.43		326.53
	2-Mar-89			10.59		326.37
	4-Apr-89			9.45		327.51
Į	1-May-89			10.20	-	326.76
	1-Jun-89			10.40		326.56
	28-Jun-89			10.60		326.36
	9-Aug-89			10.64		326.32
	11-Sep-89			10.83		326.13
ļ	10-Oct-89			10.95		326.01
	26-Oct-89			10.86		326.10
	21-Dec-89			11.09		325.87
	17-Jan-90			10.90		326.06
	23-Feb-90			10.52		326.44
	4-Jun-90			10.52		326.44
	20-Nov-90			12.65		324.31
	12-Feb-91			11.16		325.80
	6-May-91		336.93	9.85		327.08
	28-Aug-91			10.90		326.03
	13-Nov-91			11.28		325.65
	25-Feb-92			9.04		327.89
	12-May-92			10.50		326.43
	12-Aug-92			10.94		325.99
	10-Nov-92			11.84		325.09
	10-Feb-93			8.82		328.11
	10-May-93			8.88		328.05
	12-Aug-93			10.36		326.57
	11-Nov-93			10.64		326.29
	11-Feb-94			10.68		326.25
	17-May-94			9.92		327.01
	25-Aug-94			11.30		325.63
	23-Nov-94			10.48		326.45
	15-Feb-95			8.35		328.58

### FIELD MONITORING DATA

	WIC 204-2277-0105						
WELL	The state of the same and the same of the			DEPTH TO PRODU			
NO.	DATE		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WATER THICKN	1 23		
	All All All All All All All All All All	(IN.)	(FT.)	<b>(FT.)</b>	) 'z ( <b>FT.</b> )		
MW-3 (cont.)	24-May-95	makanova a kannayansa yant	· was a wall of the same a first for the	9.67	327.26		
`	25-Aug-95			<b>1.79.36</b>	. 327.57		
MW-4	9-May-88	4.0	337.14	10.88	326.26		
ļ	26-Aug-88			11.34	325.80		
	5-Oct-88			10.87	326.27		
	22-Nov-88			11.41	325.73		
	9-Dec-88			11.46	325.68		
	13-Jan-89			NM	NM		
l	10-Feb-89			10.78	326.36		
	2-Mar-89			10.92	326.22		
ļ	4-Apr-89			10.04	327.10		
	1-May-89			10.52	326.62		
	31-May-89			10.62	326.52		
	28-Jun-89			11.00	326.14		
	9-Aug-89			10.92	326.22		
	8-Sep-89			11.05	326.09		
	10-Oct-89			10.97	326.17		
	26-Oct-89			11.35	325.79		
	21-Dec-89			11.07	326.07		
	17-Jan-90			11.08	326.06		
1	23-Feb-90			10.90	325.24		
1	4-Jun-90			10.74	326.40		
	20-Nov-90			11.45	325.69		
	12-Feb-91			11.50	325.64		
	6-May-91			10.04	327.10		
ŀ	28-Aug-91			11.18	325.96		
1	13-Nov-91			11.60	325.54		
	25-Feb-92			9.45	327.69		
ļ	12-May-92			10.84	326.30		
	12-Aug-92			11.36	325.78		
	10-Nov-92			12.12	325.02		
	10-Feb-93			9.40	327.74		
	10-May-93			9.54	327.60		
	12-Aug-93			10.68	326.46		
	11-Nov-93			11.97	325.17		
	11-Feb-94			10.71	326.43		
	17-May-94			10.30	326.84		
	25-Aug-94			10.84	326.30		
	23-Nov-94			10.78	326.36		
	15-Feb-95			9.49	327.65		

## FIELD MONITORING DATA

	WIC 204-2277-0105							
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	MONT	The College of College Course 112 1140.	「ないか」 こうしゅうかんがっていません	make management for the California and the		WATER		
NO.	DATE:	2 2 2	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	COLOR OF COME COME	THICKNESS	· · · / / · ·		
		(IN.)	(FT.)		(FT.)	<i>∞-</i> (FT.) ∶		
MW-4 (cont.)	24-May-95		در درور درور درور درور درور درور درور د	10.73	way parked to expension in the con-	326.41		
	25-Aug-95			10.22		326.92		
MW-5	26-Aug-88	4.0	334.96	9.10		325.86		
	5-Oct-88			9.95		325.01		
	22-Nov-88			8.93		326.03		
	9-Dec-88			10.48		324.48		
	13-Jan-89			NM		NM		
	10-Feb-89			10.35		324.61		
	2-Mar-89			8.50		326.46		
	5-Apr-89			7.72		327.24		
	1-May-89			8.21	_	326.75		
	1-Jun-89			8.40	•	326.56		
	29-Jun-89			8.65		326.31		
	9-Aug-89			8.76		326.20		
	11-Sep-89			8.80		326.16		
	10-Oct-89			11.92		323.04		
	25-Oct-89			9.03		325.93		
	20-Dec-89			11.26		323.70		
	18-Jan-90			9.95		325.01		
	23-Feb-90			8.30		326.66		
	4-Jun-90			8.57		326.39		
	20-Nov-90			9.45		325.51		
	11-Feb-91			9.27		325.69		
	6-May-91			7.90		327.06		
	28-Aug-91			9.28		325.68		
	13-Nov-91			9.36		325.60		
	25-Feb-92			9.02		325.94		
	12-May-92			8.65		326.31		
	12-Aug-92			9.40		325.56		
	10-Nov-92			9.68		325.28		
	10-Feb-93			7.97		326.99		
	10-May-93			7.76		327.20		
	12-Aug-93			8.75		326.21		
	11-Nov-93			9.32		325.64		
	11-Feb-94			8.97		325.99		
	17-May-94			8.12		326.84		
	25-Aug-94			9.19		325.77		
	23-Nov-94			8.78		326.18		
	15-Feb-95			6.88		328.08		
	24-May-95			8.04		326.92		

# TABLE 1 FIELD MONITORING DATA

			04-2277-010			
WELL		COLOR NEW YORK	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		* - * ** * * * * · ·	WATER
NO.	DATE	こうしょうきょくさん はんきんきん	かいぶし マンチャング ナー・デー・フェッシュ	CONTROL OF THE SECOND	THICKNESS	ELEV.
		(IN.) 🤛	(FT.)	(FT.)	(FT.)	(FT.)
MW-5 (cont.) 32	5-Aŭg-95			8.34	7,71 4	326.62
MW-6 2	6-Aug-88	4.0	335.42	9.69		325.73
	5-Oct-88			9.27		326.15
2	2-Nov-88			9.77		325.65
ç	9-Dec-88			9.85		325.27
1	3-Jan-89			NM		NM
1	0-Feb-89			9.10		326.32
2	2-Mar-89			9.29		326.13
[	4-Apr-89			8.48		326.94
1	-May-89			8.90		326.52
<u> </u>	1-Jun-89			9.16	•	326.26
2	29-Jun-89			9.30		326.12
g	9-Aug-89			9.30		326.12
1	1-Sep-89			9.31		326.11
1	0-Oct-89			9.32		326.10
2	4-Oct-89			9.30		326.12
2	0-Dec-89			9.58		325.84
1	8-Jan-90			9.46		325.96
2	3-Feb-90			8.94		326.48
4	4-Jun-90			9.22		326.20
2	0-Nov-90			9.65		325.77
1	2-Feb-91			9.85		325.57
6	-May-91			9.12		326.30
2:	8-Aug-91			9.68		325.74
1:	3-Nov-91			10.00		325.42
2	5-Feb-92			8.44		326.98
12	2-May-92			9.11		326.31
1:	2-Aug-92			9.72		325.70
10	0-Nov-92			10.56		324.86
1	0-Feb-93			7.65		327.77
10	0-May-93			8.10		327.32
1:	2-Aug-93			9.18		326.24
1	1-Nov-93			9.38		326.04
1	1-Feb-94			9.02		326.40
17	7 <b>-</b> May-94			8.58		326.84
2:	5-Aug-94			9.79		325.63
23	3-Nov-94			9,20		326.22
1	5-Feb-95			7.36		328.06
	4-May-95	*.0 -	. Va.c	8.80	_	326.62
	5-Aug-95.	,承必,强		8.50	<u> </u>	326.92

### FIELD MONITORING DATA

			204-2277-0105	
	MONT.		*WELL DEPTH TO PRODUCT	WATER
NO.	DATE *		ELEV. WATER THICKNESS	ELEV.
			(FT.) (FT.) (FT.)	(FT.)
MW-7	26-Aug-88	4.0	333.23 7.94	325.29
	5-Oct-88		7.54	325.69
	22-Nov-88		NM	NM
	9-Dec-88		7.53	325.70
	13 <b>-J</b> an-89		NM	NM
	10-Feb-89		6.62	326.61
	2-Mar-89		7.03	326.20
	5-Арт-89		6.80	326.43
	1-May-89		6.53	326.70
	31-May-89		6.93	326.30
1	28-Jun-89		6.85	326.38
i	9-Aug-89		6.67	326.56
	7-Sep-89		6.90	326.33
	10-Oct-89		6.90	326.33
	24-Oct-89		7.29	325.94
	20-Dec-89		7.47	325.76
	18-Jan-90		7.49	325.74
	23-Feb-90		6.92	326.31
l	4-Jun-90		6.95	326.28
<u> </u>	20-Nov-90		8.10	325.13
	11-Feb-91		8.04	325.19
	6-May-91		6.37	325.86
	28-Aug-91		7.94	325.29
	13-Nov-91		8.41	324.82
	25-Feb-92		6.99	326.24
	12-May-92		7.42	325.81
	12-Aug-92		8.65	324.58
	10-Nov-92		8.82	324.41
	10-Feb-93		6.06	327.17
	10-May-93		6.68	326.55
	12-Aug-93		6.83	326.40
	11-Nov-93		6.90	326.33
	11-Feb-94		6.12	327.11
	17-May-94		6.06	327.17
	25 <b>-</b> Aug-94		6.76	326 47
	23-Nov-94		6.75	326.48
	15-Feb-95		5.40	327.83
	24-May-95		6.82	326.41
	25-Aug-95	×, -=,	6.46	326.77
MW-8	1 <b>-M</b> ar-89	4.0	335.80 8.28	327.52

## FIELD MONITORING DATA

			204-2277-0		<del></del>	
WELL	the transfer of the second second second second second second second	and the same and the same and the same and the same and the same and the same and the same and the same and the	A Comment of the State of the	DEPTH TO P	2 30 30 30	
NO.	DATE			WATER		
San Control of the Control		##.(LIN.)	·mages (P.I.)	: (FT.)	24(P.1.) 28	
MW-8 (cont.)	4-Apr-89			7.31		328.49
	1-May-89			8.97		326.83
	31-May-89			9.17		326.63
	28-Jun-89			9.40		326.40
(	8-Aug-89			9.42		326.28
	7-Sep-89			8.50		327.30
ł	10-Oct-89			9.46		326.34
ì	26-Oct-89			9.56		326.24
	21-Dec-89			9.57		326.23
	18-Jan-90			9.29		326.51
	26-Feb-90			8.50		327.30
Ì	4-Jun-90			9.04	•	326.76
	11-Feb-91			9.40		326.40
1	6-May-91			8.70		327.10
	28-Aug-91			9.68		326.12
İ	13-Nov-91			9.87		326.93
	25-Feb-92			7.45		328.35
	12-May-92			9.19		326.61
	12-Aug-92			9.82		325.98
	10-Nov-92			10.41		325.39
	10-Feb-93			7.35		328.45
	10-May-93			8.00		327.80
	12-Aug-93			9.00		326.80
	11-Nov-93			9.47		326.33
	11-Feb-94			8.80		327.00
1	17-May-94			8.21		327.59
	25-Aug-94			9.52		326.28
	23-Nov-94			9.08		326.72
	15-Feb-95			6.67		329.13
	24-May-95			7.56		328.24
	25-Aug-95			8.60		327.20
MW-9	1-Маг-89	4.0	334.57	8.48		326.09
	4-Apr-89			7.69		326.88
1	1-May-89			8.20		326.37
	31-May-89			8.72		325.85
	28-Jun-89			9.00		325.57
	8-Aug-89			8.53		326.04
	7-Sep-89			8.99		325.58
	9-Oct-89			8.89		325.68
	23-Oct-89			9.02		325.55

### FIELD MONITORING DATA

			<u> 204-2277-</u>			
	MONT: 2					• .
NO.	DATE		Street The white	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	THICKNESS	ELEV.
		(IN:) »	(FT.)		. 🏅 (FT.) 🦠 🦠	(FT.)
MW-9 (cont.)	21-Dec-89			9.48		325.09
	18-Jan-90			8.73		325.84
	26-Feb-90			9.06		325.51
	4-Jun-90			8.64		325.93
	20-Nov-90			9.95		324.62
]	11-Feb-91			9.85		324.72
1	6-May-91			10.05		324.52
	28-Aug-91			10.34		324.23
	13-Nov-91			9.39		325.18
	25-Feb-92			7.18		327.39
<b>!</b>	12-May-92			8.54		326.03
	12-Aug-92			8.97	•	325.60
	10-Nov-92			9.61		324.96
	10-Feb-93			7.20		327.37
Į.	10-May-93			7.56		327.01
	12-Aug-93			8.25		326.32
	11-Nov-93			10.30		324.27
	11-Feb-94			8.88		325.69
	17-May-94			8.06		326.51
}	25-Aug-94			8.79		325.78
	23-Nov-94			8.65		325.92
	15-Feb-95			7.36		327.21
	24-May-95			7.75		326.82
	25-Aug-95			7.90		326.67
MW-10	2-Mar-89	4.0	335.37	8.95		326.42
	4-Apr-89			7.89		327.48
	1-May-89			9.07		326.30
	1-Jun-89			8.86		326.51
	29-Jun-89		•	9.05		326.32
	9-Aug-89			9.70		326.67
	7-Sep-89			8.14		327.23
	10-Oct-89			9.21		326.16
	26-Oct-89			9.60		325.77
	20-Dec-89			9.42		325.95
	1-Jun-90			We	ll Destroyed	
MW-11	2-Mar-89	4.0	334.20	8.30		325.90
	4-Apr-89			7.52		325.68
	1-May-89			7.97		326.23
	20-Nov-90			NM		NM
	31-May-90			8.13		326.07

### FIELD MONITORING DATA

~ ~=====			204-2277-			
17 38 47 MILE TO THE ST. P.	a MONT.			DEPTH TO		WATER
NO. 3.	DATE	La vice the series of the	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	WATER 1	44 163 C C C C C	ELEV.
	Service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the servic	Œ(IN.) Æ	(FT.)	(FT.)	(FT.)	(FT.)
MW-11 (cont.)	28-Jun-89			8.30		325.90
	8-Aug-89			8.22		325.98
ļ	7-Sep-89			8.32		325.88
	9-Oct-89			8.28		325.92
	24-Oct-89			8.38		325.82
	20-Dec-89			8.48		325.72
<u> </u>	18-Jan-90			8.20		326.00
	26-Feb-90			7.86		326.34
	4-Jun-90			8.13		326.07
}	20-Nov-90			8.83		325.37
	11-Feb-90			8.95	_	325.25
	6-May-91			7.71		326.49
	28-Aug-91			8.62		325.58
	15-Nov-91			8.99		325.21
	25-Feb-92			7.21		326.99
	12-May-92			8.26		325.94
ļ	12-Aug-92			8.75		325.45
	10-Nov-92			9.47		324.73
	10-Feb-93			6.79		327.41
	10-May-93			7.18		327.02
	12-Aug-93			8.10		326.10
	11-Nov-93			8.56		325.64
	11-Feb-94			8.21		325.99
	17-May-94			7.61		326.59
	25-Aug-95			8.68		325.52
	23-Nov-94			8.27		325.93
	15-Feb-95			6.46		327.74
	24-May-95			7.69		326.51
	25-Aug-95			7.70		326.50
MW-12	2-Mar-89	4.0	332.53	6.94		325.59
	4-Apr-89			6.33		326.20
	1-May-89			6.62		325.91
	1- <b>J</b> un-89			6.82		325.71
	29-Jun-89			7.00		325.53
	9-Aug-89			6.76		325.77
	7-Sep-89			6.81		325.72
	9-Oct-89			7.11		325.42
	24-Oct-89			7.60		324.93
	20-Dec-89			8.25		324.28
	18-Jan-90			8.23		324.30

## FIELD MONITORING DATA

			204-2277-0			
1 18 well and the state of the 200	- MONT.					WATER
NO.	DATE	122 B 145 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second second second second	アペペークション メイン・カケー・ 「〇」	THICKNESS	ELEV.
4350000		(IN.)	(FT.)		(FT.) 🥳	(FT.)
MW-12 (cont.)	26-Feb-90			7.54		324.99
	4-Jun-90			7.96		324.57
	20-Nov-90			8.80		323.73
	12-Feb-90			7.85		324.68
	6-May-91			7.35		325.18
	28-Aug-91			7.79		324.74
]	13-Nov-91			7.89		324.64
	25-Feb-92			6.14		326.39
	12-May-92			7.54		324.99
	12-Aug-92			9.83		322.70
	10-Nov-92			8.32		324.21
	10-Feb-93			6.75		325.78
	10-May-93			N	ell Inaccessible	
]	12-Aug-93			6.23		326.30
	11-Nov-93			7.43		325.10
	11-Feb-94			7.18		325.35
İ	17-May-94			6.80		325.73
	25-Aug-94			7.24		325.29
	23-Nov-94			7.16		325.37
	15-Feb-95			5.16		327.37
Ì	24-May-95			6.95		325.58
	25-Aug-95			5.63		326.90
MW-13	6-May-91	4.0	335.64	8.37		327.27
	28-Aug-91			9.82		325.82
	13-Nov-91			10.19		325.45
	25-Feb-92			7.66		327.98
	12-May-92			9.16		326.48
	12-Aug-92			10.91		324.73
	10-Nov-92			10.69		324.95
	10-Feb-93			7.49		328.15
	10-May-93			8.06		327.58
	12-Aug-93			8.73		326.91
	11-Nov-93		•	9.15		326.49
	11-Feb-94			9.12		326.52
	17-May-94			8.62		327.02
	25-Aug-94			9.32		326.32
	23-Nov-94			9.37		326.27
	15-Feb-95			8.42		327.22
	24-May-95			9.90		325.74
	25-Aug-95	· 查图图	V. Tak	<i>ି</i> 8.32 💉 ି	· ,-	327.32

## FIELD MONITORING DATA

### FORMER SHELL SERVICE STATION 7194 AMADOR VALLEY BOULEVARD DUBLIN, CALIFORNIA WIC 204-2277-0105

WELL	MONT:		204-2277-(		PRODUCT	~*XEATED
NO.	DATE	DIA.	ELEV.		THICKNESS	
20.00	3	(IN.)	(FT.)		(20)	(FT.)
RW-1	9-Dec-89	6.0	336.19	10.73	77 27(2 23) 377	325.46
I KW-1	13-Jan-89	0.0	000.10	NM		NM
	10-Feb-89			10.91		325.28
	2-Mar-89			10.15		325.04
	5-Apr-89			9.34		326.85
	1-May-89			9.85		326.34
	1-Jun-89			9.96		326.23
	30-Jun-89			9.90		326.29
1	9-Aug-89			9.80		326.39
	11-Sep-89			10.02		326.17
	10-Oct-89			9.88		326.31
	25-Oct-89			9.80	-	326.39
	21-Dec-89			10.25		325.94
<b>,</b>	17-Jan-89			9.80		326.39
	23-Feb-90			9.60		326.59
	4-Jun-90			9.97		326.22
	20-Nov-90			10.50		325.69
	11-Feb-91			10.87		325.32
1	25-Feb-92			Well N	iot Gauged	•
	12-May-92			NM		NM
	12-Aug-92			NM		NM
	10-Nov-92			NM		NM
	10-May-93			9.26		326.93
	12-Aug-93			NM		NM
	11-Nov-93			NM		NM
	11-Feb-94			9.98		326.21
	17-May-94			9.29		326.90
	25-Aug-94			10.56		325.63
}	23-Nov-94			10.07		326.12
	15-Feb-95			8.20		327.99
	24-May-95			9.66	o cooperations	326.53
	25-Aug-95			9.37	1464.2°	326.82

<u>Notes</u>

Elevations referenced to Mean Sea Level
Depth to water measured from top of casing
NM = Not measured

	8. n = 1 × - 1 × - 1 × 1		WIC 204-2277			
2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	O value (a fee) ≃ and a fee and a fee	the state of the state of	15 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18	water and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same	ETHYLBENZENE	
	DATE				(PPB)	(PPB)
MW-1	9-May-88	440	120	50	NR	120
	26-Aug-88	200,000	4,400	260	300	450
	5-Oct-88	17,000	6,700	360	210	730
	22-Nov-88	8,000	3,900	830	250	340
	9-Dec-88	11,000	790	36	7.3	68
	13-Jan-89	8,800	3,800	110	330	90
	10-Feb-89	18,000	4,700	400	660	190
	2-Mar-89	14,000	6,100	770	320	440
	4-Apr-89	11,000	4,800	770	270	780
	1-May-89	11,000	2,800	880	410	780
	1 <b>-Jun-</b> 89	<50	<0.5	<0.5	<0.5	<0.5
	29-Jun-89	4,700	310	160	75	260
	9-Aug-89	12,000	1,300	620	830	680
	11-Sep-89	<50	<0.5	<0.5	<0.5	2.2
	10-Oct-89	.8,700	1,100	310	180	590
	25-Oct-89	7,500	660	250	460	480
	20-Dec-89	<sub>.</sub> 6,200	270	110	260	220
	17-Jan-90	7,400	200	170	160	260
	23-Feb-90	1,500	130	13	30	24
	4-Jun-90	830	88	10	2.6	28
	20-Nov-90	NA	NA	NA	NA	NA
	12-Feb-91	1,500	180	39	82	110
	6-May-91	510	41	11	25	35
	28-Aug-91	450	41	16	24	34
	13-Nov-91	320	41	14	23	33
	25-Feb-92	240	24	9.2	14	20
	12-May-92	320	60	25	29	41
	12-Aug-92	230	26	16	20	25
	12-Aug-92(D)	220	25	16	19	24
	10-Nov-92	120	13	8.8	9.0	13
	10-Feb-93	80	3.3	2.9	2.4	5.1
	10-May-93	100	8.5	5.5	5.2	10
	12-Aug-93	130	10	11	8.3	32
	11-Nov-93	<50	<0.5	<0.5	<0.5	<0.5
	11-Feb-94	110b	12	4.6	6.4	13
	17-May-94	<50	0.53	<0.5	<0.5	0.71
	25-Aug-94	<50	<0.5	<0.5	<0.5	<0.5
	23-Nov-94	<50	0.9	<0.5	<0.5	<0.5
	15-Feb-95	330	2.7	1.3°	1.5	2.3
	24-May-95	<50	<0.5	<0.5	<0.5	<0.5
	25-Aug-95	<b>&lt;</b> 50	₹0.5 €	<0.5	√ <0.5	<0.5

	WIC 204-2277-0105									
SAMPLE	SAMPLE	TPH-G	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES				
POINT	DATE	(PPB)	(PPB)	(PPB)	Sec (PPB)	(PPB) .				
MW-2	9-May-88	<50	<0.5	<0.5	NR	<0.5				
	26-Aug-88	1,700	230	16	87	120				
	5-Oct-88	200	20	2.3	8.3	12				
	22-Nov-88	800	93	1.6	4.3	60				
	9-Dec-88	270	45	3.6	7.2	14				
	13-Jan-89	180	26	2.3	17	7.0				
	10-Feb-89	320	43	1.7	34	15				
	2-Mar-89	230	24	0.9	9.2	18				
	4-Apr-89	230	53	2.3	7.1	20				
	1-May-89	<50	2.7	<0.5	<0.5	<0.5				
	31-May-89	120	14	<0.5	3.9	7.6				
	28- <b>J</b> un-89	<50	4.1	<0.5	<0.5	<0.5				
	8-Aug-89	88	3.9	<0.5	<0.5	<0.5				
	8-Sep-89	<50	3.2	<0.5	<0.5	<0.5				
	9-Oct-89	. 110	6.7	<0.5	<0.5	<0.5				
	24-Oct-89	<50	2.5	<0.5	<0.5	1.9				
	21-Dec-89	. < <b>5</b> 0	7.1	<0.5	5.0	9.8				
	17-Jan-90	<50	4.4	<0.5	1.6	1.4				
	23-Feb-90	70	6.3	<0.5	2.7	2.5				
	4-Jun-90	60	2.4	<0.5	0.8	<0.5				
	20-Nov-90	60	5.6	<0.5	<0.5	<0.5				
	12-Feb-91	130	14	<0.5	0.9	0.5				
	6-May-91	60	1.5	<0.5	5.0	<0.5				
	28-Aug-91	100	6.3	<0.5	1	1.1				
	13-Nov-91	<50	11	<0.5	1.3	<0.5				
	25-Feb-92	<50	3.8	<0.5	<0.5	<0.5				
	12-May-92	<50	6	<0.5	<0.5	<0.5				
	12-Aug-92	110	6.8	<0.5	1.0	<0.5				
	10-Nov-92	56	4.5	<0.5	<0.5	<0.5				
	10-Feb-93	81	4.8	0.6	1.4	1.9				
	10-May-93	90	0.8	0.8	0.6	3.2				
	12-Aug-93	420	61	18	21	53				
	11-Nov-93	<50	<0.5	<0.5	<0.5	<0.5				
	11-Feb-94	<50	0.64	<0.5	<0.5	<0.5				
	17-May-94	<50	3	<0.5	<0.5	0.51				
	25-Aug-94	<50	17	<0.5	<0.5	<0.5				
	23-Nov-94	<50	9.3	<0.5	<0.5	<0.5				
	15-Feb-95	160	4.4	1.1 <sup>b</sup>	0.6	1.5				
	24-May-95	70	3.9	<0.5	1.4	<0.5				
	25-Aug-95		20 🗸		≥ <b>~0.5</b> ∠	<0.5				

	WIC 204-2277-0105								
SAMPLE	SAMPLE "	TPH-G	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES			
POINT	DATE	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)			
MW-3	9-May-88	76	10	4.4	NR	15			
	26-Aug-88	5,200	170	6.0	32	54			
	5-Oct-88	260	100	2.7	5.8	7.0			
	22-Nov-88	180	75	1.4	8.1	4.0			
	9-Dec-88	160	5	5.9	<0.5	<0.5			
	13-Jan-89	160	36	1.2	3.0	2.0			
	10-Feb-89	300	83	<0.5	8.6	8.0			
	2-Маг-89	570	160	1.0	17	9.0			
	4-Apr-89	150	64	8.0	2.7	6.0			
	1-May-89	130	48	1.2	3.4	2.0			
	1-Jun-89	<50	<0.5	<0.5	<0.5	<0.5			
	28-Jun-89	90	68	0.7	<0.5	5.1			
	9-Aug-89	150	23	5.3	2.6	<0.5			
	11-Sep-89	<50	<0.5	<0.5	<0.5	<0.5			
	10-Oct-89	80	6.4	0.72	<0.5	<0.5			
	26-Oct-89	150	11	<0.5	1.6	<0.5			
	21-Dec-89	<50	6.8	<0.5	<0.5	<0.5			
	17-Jan-90	ິ<50	4.0	<0.5	6.8	<0.5			
	23-Feb-90	50	10	<0.5	1.2	0.9			
	4-Jun-90	80	10	<0.5	1.4	<0.5			
	20-Nov-90	100	26	0.7	1.2	1.9			
	12-Feb-91	130	27	<0.5	<0.5	<0.5			
	6-May-91	120	31	0.8	2.1	0.8			
	28-Aug-91	340	87	1.1	6.5	3.8			
	13-Nov-91	240	140	<0.5	3.1	0.9			
	25-Feb-92	80	17	<0.5	<0.5	<0.5			
	12-May-92	74	31	<0.5	2.6	<0.5			
	12-Aug-92	160	24	0.5	2.9	<0.5			
	10-Nov-92	130	27	<0.5	1.1	0.9			
	10-Nov-92(D)	110	2.6	<0.5	1.1	0.7			
	10-Feb-93	92	5.7	<0.5	<0.5	<0.5			
	10-Feb-93(D)	80	5.2	<0.5	<0.5	<0.5			
	10-May-93	250	100	<0.5	<0.5	<0.5			
	10-May-93(D)	200	80	<0.5	2.4	<0.5			
	12-Aug-93	380	110	16	13	43			
	11-Nov-93	170	35	8.0	29	9.2			
	11-Feb-94	76c	23	<0.5	<0.5	<0.5			
	17-May-94	84d	26	<0.5	2.2	<0.5			
	25-Aug-94	<50	7.7	<0.5	0.6	<0.5			
	25-Aug-94(D)	<50	14	<0.5	1.5	<0.5			
	23 <u>-Nov-</u> 94	<50	2.7	<0.5	<0.5	<0.5			

### FORMER SHELL SERVICE STATION 7194 AMADOR VALLEY BOULEVARD DUBLIN, CALIFORNIA WIC 204-2277-0105

	v .21_3+1		VIC 204-2277		<del></del>	
5 1 36 W - 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the commen	Transfer to the second second	The Section of the Section of the Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Sect	67 box and 200 - 1 4 2 3	the man the transfer to the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the la	XYLENES
POINT					(PPB)	
MW-3 (cont.)	15 <b>-F</b> eb-95	50	19	0.9 <sup>b</sup>	1.4	1.5
	24-May-95	380	200	1.7	<0.5	0.6
,	25-Aug-95	it 70 🚐	22 1	<0.5	4.1	<0.5
	25-Aug-95 (D			<b>&lt;0.5</b>	6.2	<0.5
MW-4	9-May-88	290	76	33	NA	150
	26-Aug-88	210	640	41	110	160
	5-Oct-88	450	110	6.3	16	20
	22-Nov-88	500	110	4.0	20	27
	9-Dec-88	260	920	7.5	5.9	11
	13-Jan-89	990	200	6.5	46	14
	10-Feb-89	290	90	3.6	8.8	9.0
	2-Mar-89	630	210	6.2	34	7.0
	4-Apr-89	640	340	13	25	40
	1-May-89	100	65	2.0	3.0	4.0
	31-May-89	. 60	<0.5	<0.5	<0.5	<0.5
	28-Jun-89	110	62	1.3	<0.5	4.8
	9-Aug-89	<sub>&gt;</sub> 160	110	2.0	6.4	<0.5
	8-Sep-89	94	45	0.5	3.8	<0.5
	10-Oct-89	90	30	1.0	1.9	<0.5
	26-Oct-89	<50	3.4	<0.5	<0.5	<0.5
	21-Dec-89	<50	35	1.1	3.6	1.6
	17-Jan-90	<50	4.0	<0.5	6.8	<0.5
	23-Feb-90	<50	8.0	<0.5	1.1	0.7
	4-Jun-90	160	85	1.1	1.9	<0.5
į	20-Nov-90	140	52	1.0	0.8	0.9
	12-Feb-91	130	48	<0.5	1.5	<0.5
İ	6-May-91	140	49	1.3	4.1	1.7
	28-Aug-91	90	13	<0.5	1.0	1.1
	13-Nov-91	<50	10	<0.5	<0.5	<0.5
	25-Feb-92	120	47	<0.5	0.5	0.5
	12-May-92		Well	Sampled Se	emiannually	,
	12-Aug-92	<50	3.5	<0.5	<0.5	<0.5
<b>!</b>	10-Nov-92				emiannually	
ţ	11-Feb-93	190	59	3.2	3.6	3.1
	10-May-93				emiannually	
	12-Aug-93	50	4.1	1.1	1.3	3.2
	I1-Nov-93			Sampled Se	emiannually	
	11-Feb-93	<50	0.62	<0.5	<0.5	<0.5
	17-May-94				emiannually	
	25-Aug-94	<50	<0.5	<0.5	<0.5	<0.5
	23-Nov-94				miannually	

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WIC 204-2277-0105  SAMPLE SAMPLE TPH-G BENZENE TOLUENE ETHYLBENZENE XYLENES									
SAMPLE	Souther the Manufacture and the second		オンスト シファイルの かんしょ カン・マーエン	Control Marketing to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of	Mark 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
					(PPB)	(PPB)			
MW-4 (cont.)	15-Feb-95	<50	13	0.9	<0.5	1.5			
	24-May-95			Sampled Se	Section 25 Section 2015	n . e . e . e . e . e . e . e . e . e .			
	25-Aug-95	<50 ≤			€0.5	્રં≮0.5			
MW-5	26-Aug-88	210	6.0	44	9.0	19			
	5-Oct-88	7,500	2,700	<0.5	110	590			
	22-Nov-88	150	21	26	3.0	2.0			
	9-Dec-88	240	37	2.2	6.7	7.7			
	13-Jan-89	80	1.6	<0.5	7.7	2.0			
	10-Feb-89	60	<0.5	<0.5	<0.5	<0.5			
	2-Mar-89	<50	<0.5	<0.5	<0.5	<0.5			
	5-Apr-89	<50	<0.5	<0.5	<0.5	<0.5			
	1-May-89	<50	1.3	<0.5	<0.5	<0.5			
	1-Jun-89	<50	<0.5	<0.5	<0.5	<0.5			
	29-Jun-89	<50	<0.5	<0.5	<0.5	<0.5			
	9-Aug-89	<sub>.</sub> 89	8.5	1.8	1.5	2.2			
	11-Sep-89	1,100	7.8	1.4	<0.5	6.3			
	10-Oct-89	<50	<0.5	<0.5	<0.5	<0.5			
	25-Oct-89	· <50	1.4	<0.5	<0.5	1.6			
	20-Dec-89	<50	<0.5	<0.5	<0.5	<0.5			
	18-Jan-90	<50	<0.5	<0.5	<0.5	<0.5			
	23-Feb-90	<50	<0.5	<0.5	0.6	<0.5			
	4-Jun-90	<50	<0.5	<0.5	<0.5	<0.5			
	20-Nov-90	<50	<0.5	<0.5	<0.5	1.0			
	11-Feb-91	<50	<0.5	<0.5	<0.5	<0.5			
	6-May-91	<50	<0.5	<0.5	<0.5	<0.5			
	28-Aug-91	<50	<0.5	<0.5	<0.5	1.0			
	13-Nov-91	<50	<0.5	<0.5	<0.5	<0.5			
	25-Feb-92	<50	<0.5	<0.5	<0.5	<0.5			
	12-May-92	<50	<0.5	<0.5	<0.5	<0.5			
	12-Aug-92	56	0.5	<0.5	<0.5	<0.5			
	10-Nov-92	<50	<0.5	<0.5	<0.5	<0.5			
	11-Feb-93	<50	<0.5	<0.5	<0.5	<0.5			
	10-May-93	<50	1.5	<0.5	1.2	5.2			
	16 <b>-</b> Sep-93	<50	<0.5	<0.5	<0.5	<0.5			
	11-Nov-93	<50	12	<0.5	1.2	<0.5			
	11-Feb-94	<50	<0.5	<0.5	<0.5	<0.5			
	17-May-94	<50	<0.5	<0.5	<0.5	<0.5			
	25-Aug-94	<50	<0.5	<0.5	<0.5	<0.5			
	23-Nov-94	<50	<0.5	<0.5	<0.5	<0.5			
	15-Feb-95	<50	<0.5	<0.5	<0.5	<0.5			
	24-May-95	<50	<0.5	<0.5	<0.5	<0.5			

### FORMER SHELL SERVICE STATION 7194 AMADOR VALLEY BOULEVARD DUBLIN, CALIFORNIA WIC 204-2277-0105

SAMPLE	SAMPLE SAMPLE TPH-G BENZENE TOLUENE ETHYLBENZENE XYLENES									
	DATE					(PPB)				
	25-Aug-95				<b>≪</b> 0.5	<0.5				
MW-6	26-Aug-88	15,000	390	390	670	1,700				
<b>0.0</b>	5-Oct-88	2,700	130	38	960	220				
	22-Nov-88	NA	NA	NA	NA	NA				
	9-Dec-88	540	62	3	26	5				
	13-Jan-89	980	160	22	120	29				
	10-Feb-89	1,900	290	24	93	48				
	2-Mar-89	1,400	160	20	130	33				
	4-Apr-89	1,200	220	27	74	69				
	1-May-89	790	120	11	25	17				
	1-Jun-89	1,200	49	49	69	30				
	29-Jun-89	940	130	15	69	35				
	9-Aug-89	1,400	280	39	170	64				
	11-Sep-89	<50	<0.5	<0.5	<0.5	<0.5				
	10-Oct-89	1,000	85	11	12	16				
	24-Oct-89	1,500	67	20	50	39				
	20-Dec-89	<50	4.9	5.1	<0.5	<0.5				
	18-Jan-90	<50	67	12	48	18				
	23-Feb-90	1.0	150	16	47	30				
	4-Jun-90	190	<0.5	<0.5	<0.5	0.6				
	20-Nov-90	730	120	12	39	21				
	12-Feb-91	550	65	10	33	16				
	6-May-91	550	72	11	38	23				
	28-Aug-91	580	82	7.6	28	20				
	13-Nov-91	430	60	7.6	20	12				
	25-Feb-92	400	52	6.6	18	11				
	12-May-92	950	260	36	12	49				
	12-May-92 12-Aug-92	660	90	15	55	18				
	10-Nov-92	350	23	3.7	15	6.8				
	11-Feb-93	660	42	11	29	17				
	10-May-93	190	<0.5	<0.5	<0.5	<0.5				
	10-May-93 12-Aug-93	360	39	15	23	38				
	12-Aug-93(D)	330	43	16	23	40				
	11-Nov-93	<50	<0.5	<0.5	<0.5	<0.5				
	11-Feb-94	370b	32	70	19	9.3				
	17-May-94	<50	42	13	33	22				
	25-Aug-94	190	0.6	<0.5	<0.5	<0.5				
	23-Nov-94	310	5	1.2	1.9	<0.5				
	15-Feb-95	360	46	11 <sup>b</sup>	19	18				
	24-May-95	280	22	<0.5	<0.5	<0.5				
	24-May-95(D)	330	25	<0.5	<0.5	<0.5				

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≻SAMPT F	SAMPI E		W1C 204-2277		ETHYLBENZENE	XYLENES
					(PPB)	(PPB)
	25-Aug-95				9.1	. 4
MW-7	26-Aug-88	<50	0.8	<0.5	<0.5	<0.5
	5-Oct-88	<50	<0.5	<0.5	<0.5	<0.5
	22-Nov-88	700	41	9.0	1.0	20
	9-Dec-88	<50	<0.5	<0.5	<0.5	0.6
	13-Jan-89	<50	<0.5	<0.5	<0.5	<0.5
	10-Feb-89	<50	<0.5	<0.5	<0.5	<0.5
	2-Mar-89	<50	<0.5	<0.5	<0.5	<0.5
	5-Apr-89	<50	<0.5	<0.5	<0.5	<0.5
	1-May-89	<50	<0.5	<0.5	<0.5	<0.5
	31-May-89	<50	<0.5	<0.5	<0.5	<0.5
	28-Jun-89	<50	<0.5	<0.5	<0.5	<0.5
	9-Aug-89	<50	<0.5	<0.5	<0.5	<0.5
	7-Sep-89	<50	<0.5	<0.5	<0.5	<0.5
	10-Oct-89	. <50	<0.5	<0.5	<0.5	<0.5
	24-Oct-89	<50	<0.5	<0.5	<0.5	<0.5
	20-Dec-89	<50	<0.5	<0.5	<0.5	<0.5
	18-Jan-90	<50	<0.5	<0.5	<0.5	<0.5
	23-Feb-90	<50	<0.5	<0.5	<0.5	<0.5
	4-Jun-90	<50	<0.5	<0.5	<0.5	<0.5
	20-Nov-90	<50	<0.5	<0.5	<0.5	<0.5
	11-Feb-91	<50	<0.5	<0.5	<0.5	<0.5
	6-May-91	<50	<0.5	<0.5	<0.5	<0.5
	28-Aug-91	<50	<0.5	<0.5	<0.5	<0.5
	13-Nov-91	<50	<0.5	<0.5	<0.5	<0.5
	25-Feb-92	<50	<0.5	<0.5	<0.5	<0.5
	12-May-92	***************************************	Well	Sampled Sea	miannually	
	12-Aug-92	52	0.8	0.9	<0.5	<0.5
	10-Nov-92		Well	Sampled Se	miannually	
	11-Feb-93	<50	<0.5	<0.5	<0.5	<0.5
	10-May-93		Well	Sampled Ser	miannually	
	16-Sep-93	<50	<0.5	<0.5	<0.5	<0.5
	11-Nov-93	***************************************	Well	Sampled Ser	miannually	
	11 <b>-</b> Feb-94	<50	<0.5	<0.5	<0.5	<0.5
	17-May-94		Well	Sampled Sei	miannually	
	25-Aug-94	<50	<0.5	<0.5	<0.5	<0.5
	23 <b>-</b> Nov-94		Well	Sampled Se	miannually	
	15-Feb-95	<50	1.9	1.5⁵	<0.5	2.0
	24-May-95		Well	Sampled Ser	miannually	
	25-Aug-95	<50	₹0.5 🔭	<b>**</b> <0.5	<b>&lt;</b> 0. <u>5</u>	<0.5

## HISTORICAL GROUNDWATER QUALITY DATABASE

	WIC 204-2277-0105  SAMPLE SAMPLE TPH-G BENZENE TOLUENE ETHYLBENZENE XYLENES								
					TARAMES THE	XYLENES			
	DATE				(PPB)	(PPB)			
MW-8	1-Mar-89	<50	<0.5	<0.5	<0.5	<0.5			
	4-Apr-89	<50	<0.5	<0.5	<0.5	<0.5			
1	1-May-89	<50	<0.5	<0.5	<0.5	<0.5			
	31-May-89	<50	<0.5	<0.5	<0.5	<0.5			
}	28-Jun-89	<50	<0.5	<0.5	<0.5	<0.5			
	8-Aug-89	<50	<0.5	<0.5	<0.5	<0.5			
ļ	7-Sep-89	<50	<0.5	<0.5	<0.5	<0.5			
1	10-Oct-89	<50	<0.5	<0.5	<0.5	<0.5			
	26-Oct-89	<50	<0.5	<0.5	<0.5	<0.5			
	21-Dec-89	<50	<0.5	<0.5	<0.5	<0.5			
	18-Jan-90	<50	<0.5	<0.5	<0.5	<0.5			
	26-Feb-90	<50	<0.5	<0.5	<0.5	<0.5			
1	4-Jun-90	<50	<0.5	<0.5	<0.5	<0.5			
	20-Nov-90	<50	<0.5	<0.5	<0.5	<0.5			
	11-Feb-91	<50	<0.5	<0.5	<0.5	<0.5			
ļ	6-May-91	<50	<0.5	<0.5	<0.5	<0.5			
	28-Aug-91	<50	<0.5	<0.5	<0.5	<0.5			
Ì	13-Nov-91	<sup>?</sup> <50	<0.5	<0.5	<0.5	<0.5			
	25-Feb-92	<50	<0.5	<0.5	<0.5	<0.5			
	12-May-92		Well	Sampled Sem	iannually				
	12-Aug-92	<50	<0.5	<0.5	<0.5	<0.5			
	10-Nov-92		Well	Sampled Sem	iannually				
	10-Feb-93	<50	<0.5	<0.5	<0.5	<0.5			
	10-May-93		Well	Sampled Sem	iannually				
İ	16-Sep-93	<50	0.7	<0.5	<0.5	1.4			
	11 <b>-Nov-9</b> 3		Well	Sampled Sem	iannually				
	11-Feb-94	<50	1.3	<0.5	0.71	2.5			
	17-May-94		Well	Sampled Sem	iannually				
]	25-Aug-94	<50	<0.5	<0.5	<0.5	<0.5			
	23-Nov-94	**************************************	Well	Sampled Sem	iannually				
<u> </u>	15-Feb-95	<50	<0.5	<0.5	<0.5	1.4			
l	24-May-95			Sampled Sem					
ļ <u></u>	25-Aug-95	<b>&lt;</b> 50		<0.5		<0.5			
MW-9	1-Mar-89	<50	<0.5	<0.5	<0.5	<0.5			
	4-Apr-89	<50	<0.5	<0.5	<0.5	<0.5			
	1-May-89	<50	<0.5	<0.5	<0.5	<0.5			
	31-May-89	<50	<0.5	<0.5	<0.5	<0.5			
	28-Jun-89	<50	<0.5	<0.5	<0.5	<0.5			
	8-Aug-89	<50	<0.5	<0.5	<0.5	<0.5			
	7-Sep-89	<50	<0.5	<0.5	<0.5	<0.5			
<u></u>	9-Oct-89	<50	<0.5	<0.5	<0.5	<0.5			

#### FORMER SHELL SERVICE STATION 7194 AMADOR VALLEY BOULEVARD DUBLIN, CALIFORNIA WIC 204-2277-0105

	WIC 204-2277-0105								
	and the second to the thirty that	week John Stra March	The Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract o	The second second second	ETHYLBENZENE	XYLENES			
POINT	DATE	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)			
MW-9 (cont.)	23-Oct-89	<50	<0.5	<0.5	<0.5	<0.5			
	21-Dec-89	<50	<0.5	<0.5	<0.5	<0.5			
	18-Jan-90	<50	<0.5	<0.5	<0.5	<0.5			
	26-Feb-90	<50	<0.5	<0.5	<0.5	<0.5			
	4-Jun-90	<50	<0.5	<0.5	<0.5	<0.5			
	20-Nov-90	<50	<0.5	<0.5	<0.5	<0.5			
	11-Feb-91	<50	<0.5	<0.5	<0.5	<0.5			
	6-May-91	<50	<0.5	<0.5	<0.5	<0.5			
	28-Aug-91	<50			<0.5	<0.5			
	13-Nov-91	<50	<0.5	<0.5	<0.5	<0.5			
	25-Feb-92	<50	<0.5		<0.5	<0.5			
	12-May-92		Well	Sampled Se	miannually				
	12-Aug-92	<50	<0.5	<0.5	<0.5	<0.5			
	10-Nov-92		Well	Sampled Se	miannualiy				
	10-Feb-93	. <50	<0.5	<0.5	<0.5	<0.5			
	10-May-93		Well	Sampled Se	miannually				
	16-Sep-93	<sub>:/</sub> <50	<0.5	<0.5	<0.5	<0.5			
	11-Nov-93			Sampled Se	miannually				
	11-Feb-94	<50	<0.5	<0.5		<0.5			
				-	miannually				
	25-Aug-94	<50	<0.5	<0.5	<0.5	<0.5			
	23-Nov-94			•	miannually	***			
	15-Feb-95	<50	<0.5	<0.5	<0.5	<0.5			
ě	24-May-95				miannually				
3	25-Aug-95				<u> </u>	***.<0.5**			
MW-10	2-Mar-89	1,000	140	36	<0.5	<b>7</b> 7			
	4-Apr-89	3,300	760	240	46	630			
	1-May-89	680	99	24	8.1	32			
	1-Jun-89	•	120	39	<0.5	45			
	29-Jun-89	1,300	51	1.4	6.1	91			
	9-Aug-89	860	310	26	45	82			
	7-Sep-89 10-Oct-89	390 460	55 95	2.9	4.0	18			
	26-Oct-89	<b>460</b>	<b>85</b>	7.6	10	45			
	20-Oct-89 20-Dec-89	270 -50	20 5.7	1.4	3.5	9.3			
	20-Dec-89 18-Jan-90	<50 NA	5.7	<0.5	<0.5	<0.5			
	16-Jan-90 1-Jun-90		NA Wall Dastrous	NA	NA	NA			
MW-11	2-Mar-89	<50	Well Destroye		.A E				
747 44 _ F F	4-Apr-89	<50 <50	<0.5	<0.5	<0.5	< 0.5			
	1-May-89	<50 <50	<0.5 <0.5	<0.5	<0.5	<0.5			
	20-Nov-90	<50		<0.5	<0.5	<0.5			
	20-1101-20	<u> </u>	<0.5	<0.5	<0.5	<0.5			

### FORMER SHELL SERVICE STATION 7194 AMADOR VALLEY BOULEVARD DUBLIN, CALIFORNIA WIC 204-2277-0105

WIC 204-2277-0105									
SAMPLES	SAMPLE	TPH-G	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES			
POINT	DATE	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)			
/W-11 (cont.)		<50	<0.5	<0.5	<0.5	<0.5			
144-11 (conc.)	28-Jun-89	<50	<0.5	<0.5	<0.5	<0.5			
	8-Aug-89	<50	<0.5	<0.5	<0.5	<0.5			
	7-Sep-89	<50	<0.5	<0.5	<0.5	<0.5			
	9-Oct-89	<50	<0.5	<0.5	<0.5	<0.5			
	24-Oct-89	<50	<0.5	<0.5	<0.5	<0.5			
	20-Dec-89	<50	<0.5	<0.5	<0.5	<0.5			
	18-Jan-90	<50	<0.5	<0.5	<0.5	<0.5			
	26-Feb-90	<50	<0.5	<0.5	<0.5	<0.5			
	4-Jun-90	<50	<0.5	<0.5	<0.5	<0.5			
	20-Nov-90	<50	<0.5	<0.5	<0.5	<0.5			
	11-Feb-91	<50	<0.5	<0.5	<0.5	<0.5			
	6-May-91	<50	<0.5	<0.5	<0.5	<0.5			
	28-Aug-91	<50	<0.5	<0.5	<0.5	1.0			
	15-Nov-91	<50	<0.5	<0.5	<0.5	<0.5			
	25-Feb-92	<50	<0.5	<0.5	<0.5	<0.5			
	12-May-92			Sampled S	emiannually				
	12-Aug-92	<50	<0.5	<0.5	<0.5	<0.5			
	10-Nov-92	************	Wel	Sampled S	Semiannually	**************************************			
	11-Feb-93	61ª	<0.5	<0.5	<0.5	<0.5			
	10-May-93	**************************************		I Sampled S	Semiannually				
	12-Aug-93	140	18	13	7 <i>.</i> 5	32			
	11-Nov-93		Wel	Sampled S	Semiannually	.,,			
	11-Feb-94	<50	<0.5	<0.5	<0.5	<0.5			
	17-May-94			I Sampled S	Semiannually				
	25-Aug-94	<50	<0.5	<0.5	<0.5	<0.5			
	23-Nov-94	,		II Sampled S	Semiannually	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	15-Feb-95	<50	<0.5	0.6 <sup>b</sup>	<0.5	<0.5			
	24-May-95		We	II Sampled S	Semiannually				
	25-Aug-95	<50	<b>&lt;</b> 0.5 _	<0.5	<0.5	<0.5			
MW-12	2-Mar-89	<50	<0.5	<0.5	<0.5	<0.5			
	4-Apr-89	<50	<0.5	<0.5	<0.5	<0.5			
	1-May-89	<50	<0.5	<0.5	<0.5	<0.5			
	1-Jun-89	<50	<0.5	<0.5	<0.5	<0.5			
	29-Jun-89	<50	<0.5	<0.5	<0.5	<0.5			
	9-Aug-89	<50	<0.5	<0.5	<0.5	<0.5			
	7-Sep-89	<50	<0.5	<0.5	<0.5	<0.5			
	9-Oct-89	<50	<0.5	<0.5	<0.5	<0.5			
	24-Oct-89	<50	<0.5	<0.5	<0.5	<0.5			
	20-Dec-89	<50	<0.5	<0.5	<0.5	<0.5			
	18-Jan-90	<50	<0.5	<0.5	<0.5	<0.5			

SAMPLE	SAMPLE :	TPH-G	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
	DATE				(PPB)	(PPB)
MW-12 (cont.)		<50	<0.5	<0.5	<0.5	<0.5
	4-Jun-90	<50	<0.5	<0.5	<0.5	<0.5
	20-Nov-90	<50	<0.5	<0.5	<0.5	<0.5
	12-Feb-91	<50	<0.5	<0.5	<0.5	<0.5
	6-May-91	<50	<0.5	<0.5	<0.5	<0.5
	28-Aug-91	<50	<0.5	<0.5	<0.5	1.0
	13-Nov-91	<50	<0.5	<0.5	<0.5	<0.5
	25-Feb-92	<50	<0.5	<0.5	<0.5	<0.5
	12-May-92 -		Well Rem	oved from S	ampling Program	
MW-13	6-May-91	1,100	430	30	41	130
	28-Aug-91	1,000	350	6.4	44	43
	13-Nov-91	680	320	5.6	38	17
	25-Feb-92	780	260	3.5	<b>2</b> 6	15
	12-May-92	660	210	3.5	26	5.8
	12-Aug-92	400	140	9.6	21	23
	10-Nov-92	60	220	2.9	23	11
	11-Feb-93	970	340	11	29	32
	10-May-93	2,300	440	<0.5	<0.5	<0.5
	12-Aug-93	8,900	670	23	76	61
	11-Nov-93	470	230	<2.5	27	11
	11-Nov-93(D)	610	190	<2.5	21	8.0
	11-Feb-94	200b	39	<0.5	4.7	3.9
	11-Feb-94(D)	290b	55	1.3	8.8	4.8
	17-May-94	<50	88	<0.5	12	10
	17-May-94(D)	<50	96	ND	13	11
	25-Aug-94	410	110	4.2	10	15
	23-Nov-94	180	66	4.8	8.2	9.8
	23-Nov-94(D)	240	430	6.5	11	13
	15-Feb-95	320	79	5.6°	7.5	23
	15-Feb-95(D)	300	90	5.7 <sup>b</sup>	7.4	24
	24-May-95	230	32	1.2	1.1	2.5
	25-Aug-95	930	320	17	× '.; '	<b>36</b> -
RW-1	9-Dec-89	6,800	740	5	11	37
	13-Jan-89	10,000	3,200	27	60	<0.5
	10-Feb-89	6,000	2,800	<0.5	<0.5	<0.5
	2-Mar-89	3,900	2,400	<0.5	<0.5	<0.5
	5-Apr-89	1,700	1,000	<0.5	9.0	<0.5
	1-May-89	900	390	5	10	<0.5
	1 <b>-</b> Jun-89	1,100	1.4	3.3	<0.5	13
	30-Jun-89	1,400	<0.5	<0.5	<0.5	<0.5
	9-Aug-89	7,500	1,700	210	280	300

### HISTORICAL GROUNDWATER QUALITY DATABASE

### FORMER SHELL SERVICE STATION 7194 AMADOR VALLEY BOULEVARD DUBLIN, CALIFORNIA WIC 204-2277-0105

SAMPLE	SAMPLE DATE	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
(RW-1 (cont.)	11-Sep-89	97	1.7	2.1	2.3	14
•	10-Oct-89	1,400	48	4.5	<0.5	3.0
	25-Oct-89	820	51	1.2	<b>2</b> 5	3.0
	21-Dec-89	490	16	1.0	8.5	19
	17-Jan-90	<50	27	1.7	14	1.6
	23-Feb-90	420	42	1.8	13	2.7
	4-Jun-90	180	23	0.7	5.3	1.2
	20-Nov-90	1,900	170	52	29	38
	11-Feb-91		<u> \</u>	Well Not Sam	npled	****

#### Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015

PPB = Parts per billion

< x =Not detected at detection limit of x

NR = Not requested

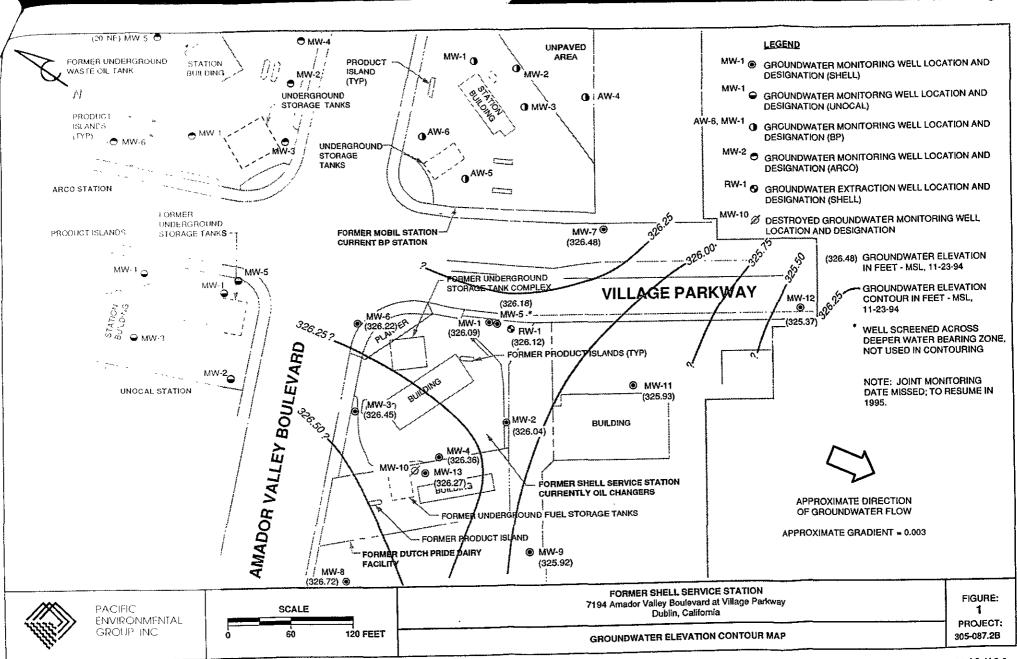
NA = Not analyzed

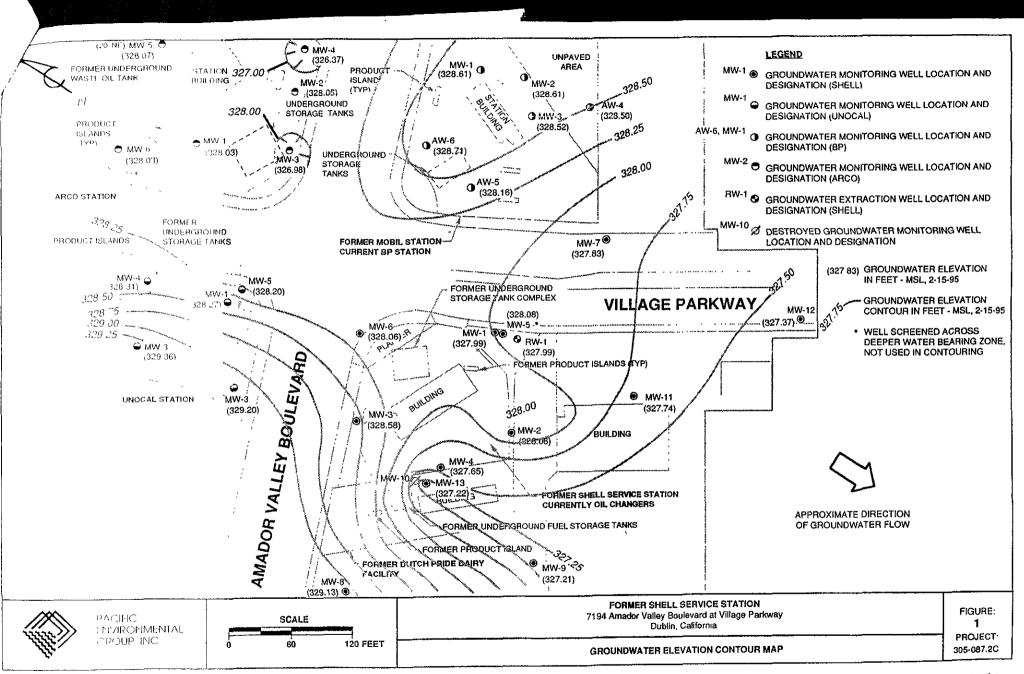
(D) = Duplicate sample

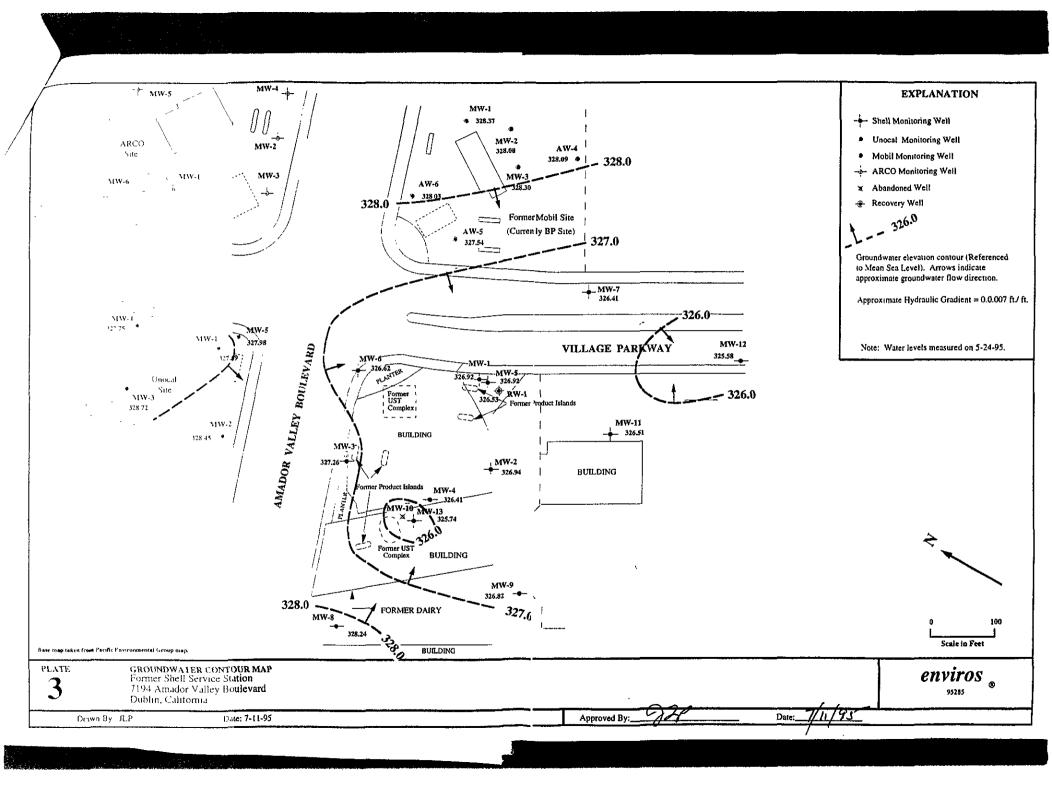
#### Notes:

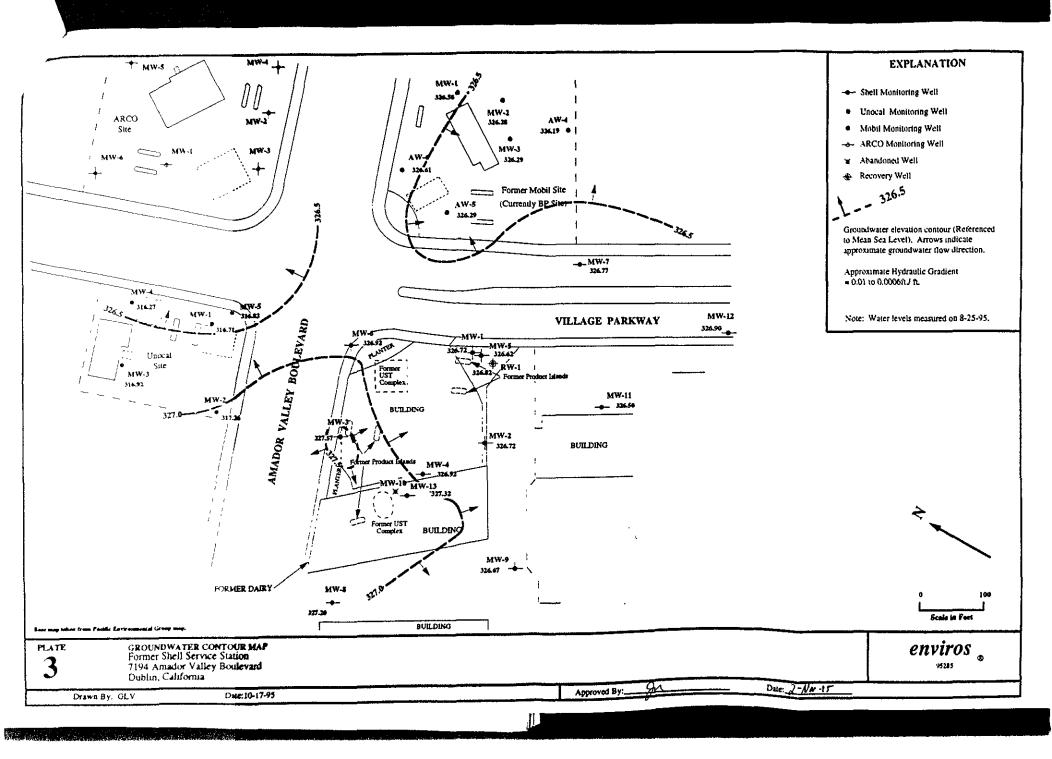
Benzene, Toluene, Ethylbenzene, Xylenes analyzed by EPA Method 8020

- a = Laboratory noted concentration is not indicative of gasoline.
- b = National Environmental Testing, Inc. noted toluene in the equipment and trip blanks at 1.1 and 1.0 ppb, respectively. This may have affected results for this quarter.









## APPENDIX C

**Exploratory Soil Borings**Well Completion Details

## ensco environmental services, Inc.

## **EXPLORATORY BORING LOG**

PROJECT NAME: Shell Oil Company BORING NO. MW-1

Dublin, CA

DATE DRILLED: 28-Apr-88

PROJECT NUMBER: 1826G

LOGGED BY: J. Rike

DEPTH (ft.)	S AMPLE No	BLOWS/F00T 140 ft/lbs.	UNIFIED SOIL	SOIL DESCRIPTION	WAYER LEVEL	OVA READING PPM	
1 2 3 4			₽	SILTY CLAY - very dark grey (2.5 YR N3), 5 to 10% medium gravel, medium stiff, plastic, moist, organic odor and slight product odor.			
- 5 - 6 - - 7 -	SDC- 1001	14		Static Water Level Measured		12	
- 10 - 11- - 12-	SDC- 1002	11		9-May-88 At 8.72 Feet.	V	20	
- 13- - 14- - 15- - 16-	SDC- 1003	8		<ul> <li>grades to dark grayish brown (10YR, 4/2), mottled with oxidation staining, no product odor.</li> </ul>		14	
	SDC- 1004	19	a.	SILTY CLAY - dark grey (7.5 YR N5), stiff, low plasticity, wet, no product odor.  Continued Next Page		8	



## **EXPLORATORY BORING LOG**

PROJECT NAME: Shell Oil Company BORING NO. MW-1

Dublin, CA

PROJECT NUMBER: 1826G

DATE DRILLED: 28-Apr-88

Page 2 of 2

LOGGED BY: J. Rike

	_		<del>,</del>	<b>Value 1</b>		. 0. ,	
DEPTH (ft.)	S AMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPM	
- 21-			a.	SILTY CLAY - dark grey (7.5 YR N5), stiff, low plasticity, wet, no product odor.			
- 22-							
- 23-				- grades to dark greenish grey (5GY 5/1),			
- 24r - - 25	SDC- 1005	25					
- 26-				Bottom Of Boring 25.5 Feet		1	
-  -  -							
			- 1				ı

C.E.G. No. 1/87

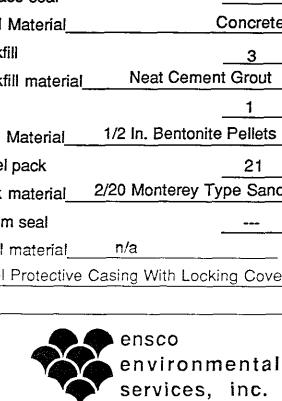
# Monitoring Well Detail

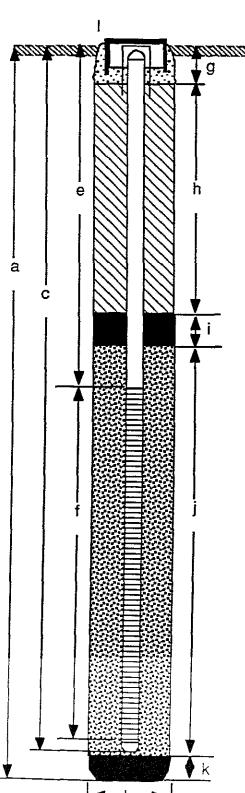
PROJECT NUMBER_1826G	
PROJECT NAME Shell Oil Company-Dublin	
COUNTYAlameda	
WELL PERMIT NO. 88082	

BORING / V	VELL NOMW-1	
TOP OF CA	SING ELEV. 334.84	•
GROUND S	URFACE ELEV	
DATUM	Mean Sea Level	

# **EXPLORATORY BORING**

77772	a. Total Depth	25.5 ft.
	b. Diameter	10_in.
	Drilling method Hollow Ste	em Auger
	WELL CONSTRUCT	ΓΙΟΝ
	c. Casing length	25.28_ft.
	Material Schedule 40 PVC	
	d. Diameter	4_in.
	e. Depth to top perforations	<u>5</u> _ft.
	f. Perforated length	<u>20</u> ft.
	Perforated interval from 5 to_	_25_ft.
	Perforation type machine s	lot
	Perforation size	0.02 in.
	g. Surface seal	5_ft.
	Seal Material C	oncrete
	h. Backfill	<u>3</u> _ft.
	Backfill material Neat Cement	Grout
	i. Seal	<u>1</u> ft.
	Seal Material 1/2 In. Bentonite	Pellets
	j. Gravel pack	21 ft.
	Pack material 2/20 Monterey Typ	e Sand
	k. Bottom seal	_ <del></del> ft.
	Seal material n/a	
	Steel Protective Casing With Lockin	g Cover
	ensco	





# ensco services, inc.

# **EXPLORATORY BORING LOG**

environmental PROJECT NAME: Shell Oil Company BORING NO. MW-2

Dublin, CA

DATE DRILLED: 28-Apr-88

	PROJECT NUMBER: 1826G	LOGGED BY: J. Rike
L Z		

DEPTH (ft.)	S AMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEVEL	OV A READING ppm	
- 1 - 2 - 3 - 4			ОН	SILTY CLAY - very dark grey (2.5 YR N3), trace very fine sand, trace gravel (<5%), medium stiff, plastic, damp, organic odor and slight product odor, minor small wood fragments and oxidation staining.			
5 6 7	1006	9				5	
9 - 10 - 11 - 12	SDC- 1007	17		- stiff and strong product odor at 10 feet, moist  Static Water Level Measured 9-May-88 At 10.85 Feet.	▼	60	
- 13 - 14 - 15 - 16-	SDC- 1008	14		<ul> <li>grades to dark greyish brown (10YR 4/2), mottling with grey, stiff, moist, plastic, no product odor.</li> </ul>		7	
- <b>18</b> -	SDC- 1009	24	a.	SILTY CLAY - dark gray (5YR, 4/1), very stiff to stiff, plastic, moist, no product odor  Continued Next Page		0	



### **EXPLORATORY BORING LOG**

Page 2 of 2

PROJECT NAME: Shell Oil Company BORING NO. MW-2

Dublin, CA

DATE DRILLED: 28-Apr-88

PROJECT NUMBER: 1826G

LOGGED BY: J. Rike

DEРТН ( <i>r</i> t.)	S AMPLE No	BLOWS/F00T 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OV A READING ppm	
21			α.	SILTY CLAY - dark grey (5 YR 4/1), stiff to very stiff, less plastic, moist, no product odor.			
- 22-							
- 23 24				- grades to dark greenish grey (5GY 5/1),			
	SDC- 1010	24				1	
26-				Bottom Of Boring 25.5 Feet			

SUPERVISED AND APPROVED BY: J. D. Pouls

C.E.G. No. 1157

# Monitoring Well Detail

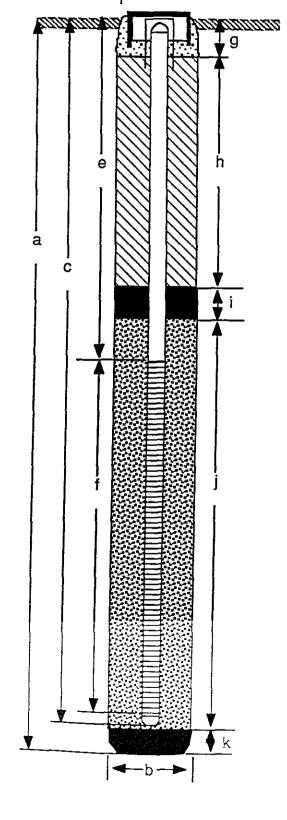
PROJECT	NUMBER_1826G
PROJECT	NAME Shell Oil Company-Dublin
COUNTY_	Alameda
MELL DEE	MIT NO. 88082

BORING / W	ELL NOMW-2	
TOP OF CAS	SING ELEV. 336.96	_
GROUND SL	IRFACE ELEV	
DATUM _	Mean Sea Level	

# **EXPLORATORY BORING**

LAPLONATONT BURING
a. Total Depth25.5 ft.
b. Diameter10_in
Drilling method Hollow Stem Auger
WELL CONSTRUCTION
c. Casing length 24.66 ft
Material Schedule 40 PVC
d. Diameter4 in
e. Depth to top perforations6_ft.
f. Perforated length18_ft
Perforated interval from 6 to 24 ft.
Perforation type machine slot
Perforation size 0.02 in.
g. Surface seal5 ft.
Seal Material Concrete
h. Backfill3ft.
Backfill material Neat Cement Grout
i. Seal1_ft.
Seal Material 1/2 In. Bentonite Pellets
j. Gravel pack 20 ft.
Pack material 2/20 Monterey Type Sand
k. Bottom sealft.
Seal materialn/a
Steel Protective Casing With Locking Cover
ensco

environmental services, inc.



# ensco environmental services, inc.

### **EXPLORATORY BORING LOG**

PROJECT NAME: Shell Oil Company BORING NO. MW-3

Dublin, CA

DATE DRILLED: 29-Apr-88

PROJECT NUMBER: 1826G

LOGGED BY: B. Von Thaden

DEPTH (rt.)	S AMPLE No	BLOWS/F00T 140 ft/1bs.	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEVEL	OV A READING PPm	
1 2 3 4 5 6	SDC- 1011	19	OL	SILTY CLAY - very dark grey (2.5 YR N3), trace fine sand, trace gravel (<5%), stiff, low to moderate plasticity, damp, organic odor, no product odor.		1	
7 - 8 - 9 - 10 - 11-	SDC- 1012	14		- increasing moisture at 8 feet  - at 10 feet, strong product odor  Static Water Level Measured 9-May-88 At 10.59 Feet.	•	64	
- 13- - 14- - 15- - 16- - 17-	SDC- 1013	8		- grades to dark grayish brown (2.5YR, 4/2), mottled with oxidation staining, medium plasticity, firm, wet, no product odor.		3	
19r 20	SDC- 1014	9	CL	SILTY CLAY - dark greenish grey (7.5 YR N5) mottled with dark grayish brown (2.5YR 4/2), low to medium plasticity, stiff, wet, no product odor.  Continued Next Page		7	

#### **EXPLORATORY BORING LOG**

ensco environmental services, inc.

PROJECT NAME: Shell Oil Company

Dublin, CA

PROJECT NUMBER: 1826G

BORING NO. MW-3

DATE DRILLED: 29-Apr-88 LOGGED BY: B. Von Thaden

DEPTH (ft.)	S AMPLE No	BLOWS/F00T 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OV A READING PPM	
- 21 - - 22 - - 23 -			ρ	SILTY CLAY - dark greenish grey (7.5 YR N5) mottled with dark grayish brown (2.5YR 4/2), low to medium plasticity, stiff, wet, no product odor.			
25 - 26 -	SDC- 1015	21		Bottom Of Boring 25.5 Feet		0	

SUPERVISED AND APPROVED BY ... ... Forth

C.E.G. No. //87

## Monitoring Well Detail

PROJECT NU	MBER 1826G
PROJECT NA	ME Shell Oil Company-Dublin
COUNTY	Alameda
WELL DEDMI	

BORING / WI	BORING / WELL NO. MW-3				
TOP OF CAS	ING ELEV	336.97			
GROUND SURFACE ELEV					
DATUM	DATUM Mean Sea Level				

### **EXPLORATORY BORING**

	a Total Donth	25.5 ft.
	a. Total Depth	10 in
	b. Diameter	
	Drilling method Hollow Si	tem Auger
	WELL CONSTRUC	<u>TION</u>
	c. Casing length	24.44_ft.
e l n	Material Schedule 40 PVC	
	d. Diameter	4 in
	e. Depth to top perforations	6 ft.
a	f. Perforated length	18 ft
C	Perforated interval from 6 to	24 ft.
<b>↓ ↓ ↓</b>	Perforation type machine :	
	Perforation size	
	g. Surface seal	.5 ft.
	<b>U</b>	Concrete
	h. Backfill	
	Backfill material Neat Cemen	3ft.
	i. Seal	ft.
	Seal Material 1/2 In. Bentonite	Pellets
	j. Gravel pack	ft.
	Pack material 2/20 Monterey Ty	pe Sand
	k. Bottom seal	ft.
	Seal material n/a	
	Steel Protective Casing With Locki	ng Cover
	ensco	
k	environm	ental
<b>  - b - ▶</b>	services,	inc.

### ensco environmental services, inc.

#### **EXPLORATORY BORING LOG**

PROJECT NAME: Shell Oil Company BORING NO. MW-4

Dublin, CA

DATE DRILLED: 29-Apr-88

PROJECT NUMBER: 1826G

LOGGED BY: B. Von Thaden

DEPTH (ft.)	S AMPLE No	BLOWS/F00T 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPM	
1 2 3			CL	SILTY CLAY - grey brown, ~ 40% silt, trace fine sand, stiff, low plasticity, damp, slight product odor.			
- 5 - 6	SDC- 1016	15				22	
- 8 - 9 - 10 - 11-	SDC- 1017	15	OL	SILTY CLAY - very dark gray, low to medium plasticity, stiff, minor roots, damp to moist, strong product odor.  Static Water Level Measured 9-May-88 At 10.88 Feet.	<b>V</b>	62	
- 13- - 14 - 15 - 16-	SDC- 1018	11		- grades to dark grayish brown (2.5YR, 4/2), slight mottling, medium plasticity, stiff, moist to wet, no product odor.		3	
18- 19- 20	SDC- 1019	5	CL	SILTY CLAY - dark greenish grey (7.5 YR N5) mottled with dark grayish brown (2.5YR 4/2), low to medium plasticity, medium stiff, wet, no product  Continued Next Page		0	

### **EXPLORATORY BORING LOG**



PROJECT NAME: Shell Oil Company

Dublin, CA PROJECT NUMBER: 1826G

BORING NO. MW-4

DATE DRILLED: 29-Apr-88 LOGGED BY: B. Von Thaden

DEPTH (ft.)	SAMPLE No	BLOWS/F00T 140 ft/1bs.	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPM	
- 21 - 22 - 23 - 24	SDC- 1020	18	CL	SILTY CLAY - dark greenish grey (7.5 YR N5) mottled with dark grayish brown (2.5YR 4/2), low to medium plasticity, medium stiff, wet, no product odor.		0	
- 26-				Bottom Of Boring 25.5 Feet			

SUPERVISED AND APPROVED BY: J. D. Forland

C.E.G. No. 1/87

## Monitoring Well Detail

PROJECT I	NUMBER_ 1826G
PROJECT	NAME Shell Oil Company-Dublin
COUNTY	
WELL PER	MIT NO 88082

BORING / W	BORING / WELL NO. MW-4			
	TOP OF CASING ELEV. 337.15			
GROUND SURFACE ELEV				
DATUM Mean Sea Level				

## **EXPLORATORY BORING**

	a. Total Depth	25.5 ft.
Ţ Ţ Ţ g	b. Diameter	10_in.
	Drilling method Hollow Ste	em Auger
	WELL CONSTRUCT	<u> </u>
	c. Casing length	
	Material Schedule 40 PVC d. Diameter	4_in
	e. Depth to top perforations	<u>6 ft.</u> 18 ft.
c A:	<ul><li>f. Perforated length</li><li>Perforated interval from 6 to</li></ul>	·
	Perforation type machine s	
	g. Surface seal	5_ft.
	Ocal Material	oncrete
	h. Backfill  Backfill material Neat Cement	3 ft. Grout
	i. Seal Seal Material 1/2 In. Bentonite	<u>1</u> ft. Pellets
	j. Gravel pack  Pack material 2/20 Monterey Ty	20 <sub>ft.</sub>
	k. Bottom seal	ft.
	Seal material n/a  1. Steel Protective Casing With Lockin	ng Cover
	ensco	ental



#### **EXPLORATORY BORING LOG**



PROJECT NAME: Shell Oil, Dublin

7194 Amador Valley Blvd.

BORING NO.

RW-1

DATE DRILLED: 7/27/89

.

PROJECT NUMBER: 1826G

LOGGED BY:

S.C.

DEPTH (A.)	S AMPLE No	BLOWS/FOOT	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVM READING PPM
- 1 - - 1 - - 2 -				FILL: Sandy Gravel, 75% fine to coarse gravel, 25% medium to coarse sand, damp to dry		
- 3 - - 4 - - 5 -			СН	SILTY CLAY, black (5YR 2.5/1), trace fine sand, trace fine gravel, high plasticity, stiff, damp		
- 6 - 7 -	R1-1	13				5
- 8 - - 9 - - 9 - -10				·		
-11 -12- -13-	R1-2	10		CLAY, black (10YR 2/1), trace of sand, minor roots, high plasticity, stiff, moist		20 310
 -14- 				_		
-16 -17- -18-	R1-3	8	СН	Color change to dark grayish brown (2.5Y 4/2) mottled with very dark gray (10YR 3/1), becomes silty, trace fine to coarse sand, rare fine gravel, few to common decayed roots, common rootholes (wet), medium stiff, wet, water noted in holes	<del>-</del>	0.5
-19- -19- -20-						
-21	R1-3	10		Color change to black (5Y 2.5/1), no gravel, no roots, few rootholes (wet), stiff, wet		0.5



PROJECT NAME: Shell Oil, Dublin

7194 Amador Valley Blvd.

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**DATE DRILLED: 7/27/89** 

PROJECT NUMBER: 1826G

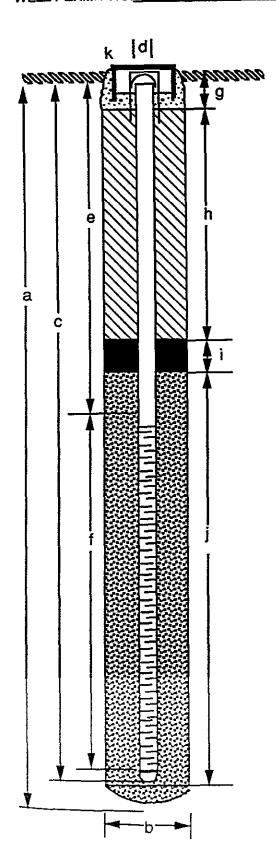
LOGGED BY: S.C.

BORING NO. RW-1

CH SILTY CLAY, as above  CL SANDY CLAY, dark gray (5Y 4/1), 15% fine to coarse sand, rare root fibers, rare root holes, trace black organic staining, low to moderate plasticity, stiff, damp  CH SANDY CLAY, dark gray (5Y 4/1) with very slight orange-brown staining, 15% fine sand, becomes 40% fine to coarse sand at shoe, some rootholes, very stiff, wet  31 R1-6  31 B1-6  33 Bottom of Boring = 31.5 feet  34 - 35 - 36 - 37 - 38 - 39 - 40 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 39 - 40 - 41 - 35 - 30 - 30 - 30 - 30 - 30 - 30 - 30	DEPTH (A.)	SAMPLE No	BLOWS/FOOT	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVM READING ppm
	-22- -23- -24- -25- -26- -27- -28- -29- -30- -31- -32- -33-	R1-5	16	СH	SANDY CLAY, dark gray (5Y 4/1), 15% fine to coarse sand, rare root fibers, rare root holes, trace black organic staining, low to moderate plasticity, stiff, damp  SANDY CLAY, dark gray (5Y 4/1) with very slight orange-brown staining, 15% fine sand, becomes 40% fine to coarse sand at shoe, some rootholes, very stiff, wet	<b>*</b>	0.5

### Recovery Well Detail

PROJECT NUMBER 1826G Shell Oil	BORING / WELL NO. RW-1
PROJECT NAME 7194 Amador Valley Blvd.	TOP OF CASING ELEV
COUNTYAlameda	GROUND SURFACE ELEV
WELL PERMIT NO.	DATUM Mean Sea Level



### **EXPLORATORY BORING**

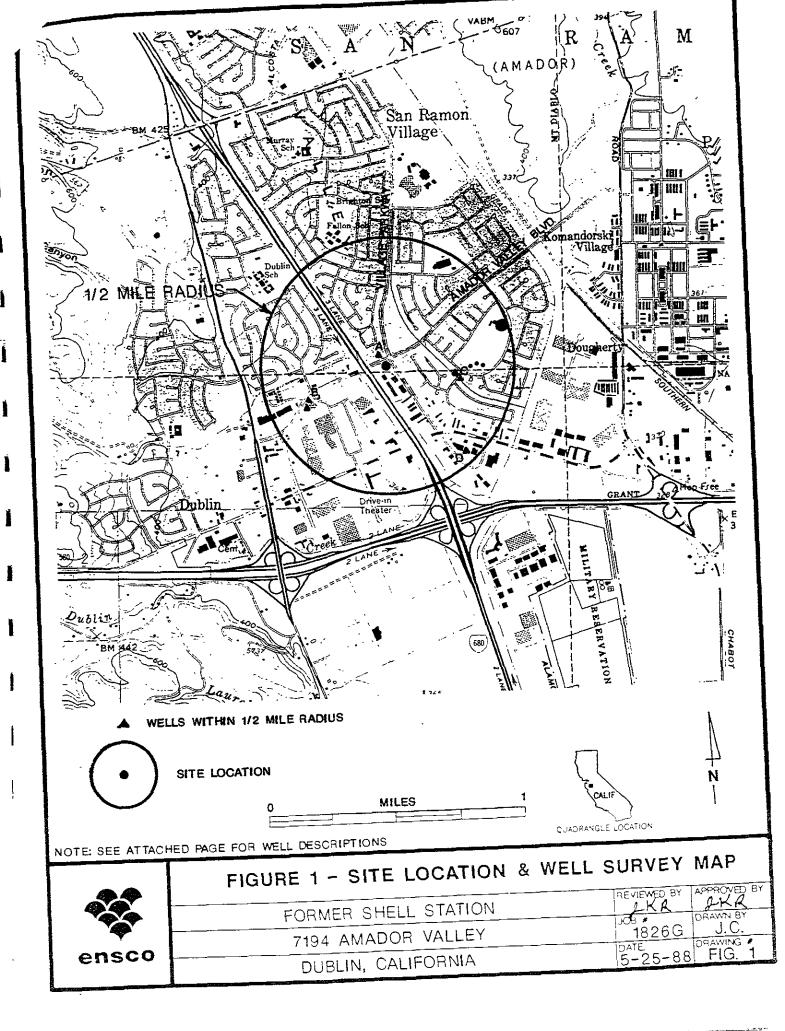
a.	Total Depth	31.5	ft.
b.	Diameter	10	_in.
	Drilling method	Hollow Stem Auger	

	Drinning medice			_
	WELL CO	NSTRUCTIO	<u>N</u>	
c.	Casing length	_	30	ft.
	Material	Schedule 40 PVC		
d.	Diameter		6	in.
e.	Depth to top perfo	orations -	10	ft.
	Perforated length		20	ft.
	Perforated interval	from 30 to 1	<u>0ft</u> .	
	Perforation type	Machine Slot		
	Perforation size	0.020	` w, .	n.
g.	Surface seal			ft.
Ī	Seal Material	n/a		
h.	Backfill		∞8	_ft.
	Backfill material	Grout		
i.	Seal		1	_ft.
	Seal Material	Bentonite :		
i.	Gravel pack		21 -	_ft.
J.		/12 Monterey Type S	and	
k.				_
. **			-3 <sup>3</sup> - <u>-</u>	



### APPENDIX D

1/2-Mile Radius Well Survey



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#### TABLE 2 SUMMARY OF WELL SURVEY WITHIN 1/2 MILE RADIUS OF FORMER SHELL SITE

## SHELL OIL COMPANY 7194 AMADOR VALLEY BLVD. DUBLIN, CALIFORNIA

	WELL DESCRIPTION			
FIGURE 1 DESIGNATION	OWNER OF WELLS AND LOCATION	NUMBER OF WELLS	TYPE OF WELLS	APPROXIMATE DEPTH OF WELLS
A	UNOCAL STATION #5366 7375 Amador Valley Blvd. Dublin, CA	4	Ground Water Monitoring Well	20 Feet
В	City Of Dublin Dublin Library	2	Test Water Wells	24 & 50 Feet
С	ACFC&WCD Flood Control Channel Mable Av. Dublin, CA	2	Test Water Wells	25 & 108 Feet
D	LUCKY STORES 600 Clark Av. Dublin, CA	1	Ground Water Monitoring Well	20 Feet

ACFC&WCD = Alameda County Flood Control & Water Conservation District

Note: The Location Of The Wells And Their Designation Are Shown On Figure 1.

## TABLE 1 GROUNDWATER ELEVATION DATA

Pre-Pump Test June 28 through 30, 1989

Well No.	Date	Groundwater Elevation (ft. datum MSL)	Distance From RW-1 (ft.)
MW-1	6/29/89	326.23	25
MW-2	6/29/89	326.06	85
MW-3	6/29/89	326.36	160
MW-4	6/29/89	326.14	140
MW-6	6/29/89	326.12	135
MW-7	6/29/89	326.38	125
MW-8	6/29/89	326.40	275
MW-9	6/29/89	325.57	210
MW-10	6/29/89	326.32	175
MW-11	6/29/89	325.90	130
MW-12	6/29/89	325.53	275
RW-1	6/30/89	326.29	0

## TABLE 2 GROUNDWATER ELEVATION DATA

Maximum Drawdown 14:03 August 4, 1989

Well Number	Groundwater Elevatio (ft. datum MSL)	
MW-1	324.13	
MW-2	324.91	
MW-3	325.88	
MW-4	325.45	
MW-6	325.62	
MW-7	326.98	
MW-8	326.14	
MW-9	325.12	
MW-10	325.88	
MW-11	325.15	
MW-12	325.38	
RW-1	321.74	

### APPENDIX E

Aquifer Test Data

TABLE 1

GROUNDWATER ELEVATION DATA

Pre-Pump Test June 28 through 30, 1989

Well No.	Date	Groundwater Elevation (ft. datum MSL)	Distance From RW-1 (ft.)
MW-1	6/29/89	326.23	25
MW-2	6/29/89	326.06	85
MW-3	6/29/89	326,36	160
MW-4	6/29/89	326.14	140
MW-6	6/29/89	326.12	135
MW-7	6/29/89	326.38	125
MW-8	6/29/89	326.40	275
MW-9	6/29/89	325.57	210
MW-10	6/29/89	326.32	175
MW-11	6/29/89	325.90	130 -
MW-12	6/29/89	325.53	275
RW-1	6/30/89	326.29	0

# TABLE 2 GROUNDWATER ELEVATION DATA

Maximum Drawdown 14:03 August 4, 1989

Well Number	Groundwater Elevation (ft. datum MSL)	
MW-1	324.13	
MW-2	324.91	
MW-3	325.88	
MW-4	325.45	
MW-6	325.62	
MW-7	326.98	
8-WM	326.14	
MW-9	325.12	
MW-10	325.88	
MW-11	325.15	
MW-12	325.38	
RW-1	321.74	

TABLE 3
MAXIMUM DRAWDOWN DATA

Ends of Pump Test 14:03 August 4, 1989

Well Number	Groundwater Elevatio (ft. datum MSL)	
MW-1	-1.84	
MW-2	-0.89	
MW-3	-0.22	
MW-4	-J.43	
MW-6	-0.24	
MW-7	0.00	
8-WM	0.00	
MW-9	-0.19	
MW-10	-0.18	
MW-11	<b>-0.49</b>	
MW-12	0.00	
RW-1	-4,29	

# TABLE 4 AQUIFER CHARACTERISTICS

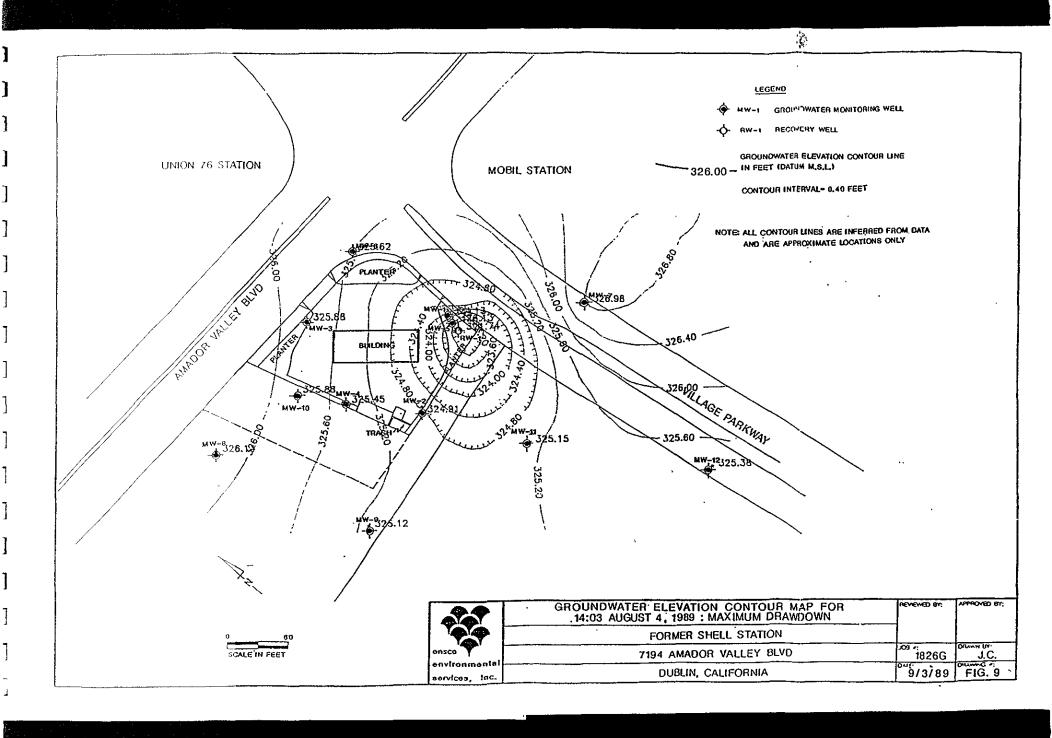
Constant Discharge Pump Test Analysis August 1 through 4, 1989

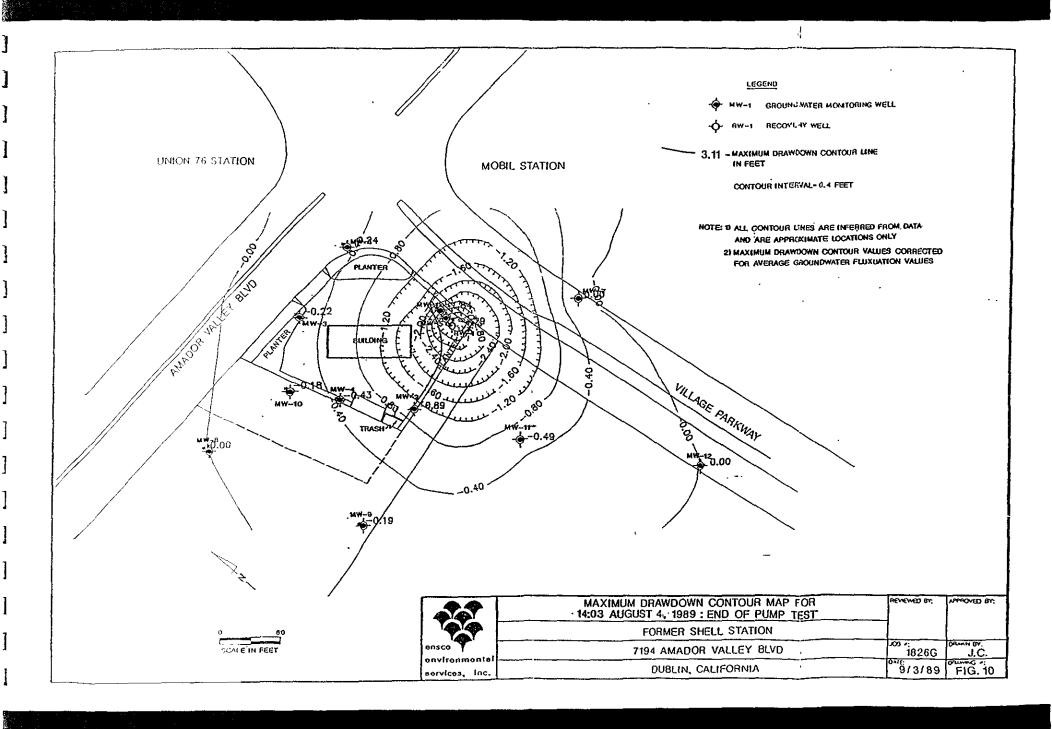
Well Number	Transmissivity (gpd/ft.)	Saturated Aquifer Thickness (ft.)	Hydraulic Conductiv (gpd/ft2)	vity Storativity  Coeffecient
MW-1	844	17.3	48.9	0.185
MW-2	1160	14.8	78.7	0.00172
MW-3	2020	15.1	134	0.00202
MW-4	1610	14.7	110	0.00262
MW-6	2550	13.8	185	0.00221
MW-8	2670	6.92	386	0.00426
MW-9	1890	9.36	202	0.00292
MW-10	1930	8.90	217	0.00370
MW-11	1430	8.42	170	0.00309
MW-12	5450	10.3	527	0.00804
RW-1	433	20.6	21.0	0.226

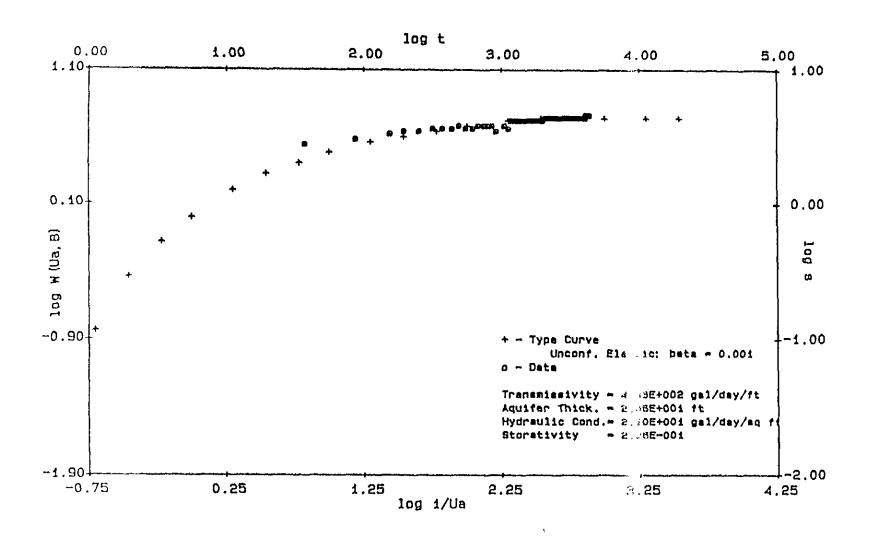
# TABLE 5 GROUNDWATER ELEVATION DATA

#### Maximum Drawdown 14:03 August 4, 1989

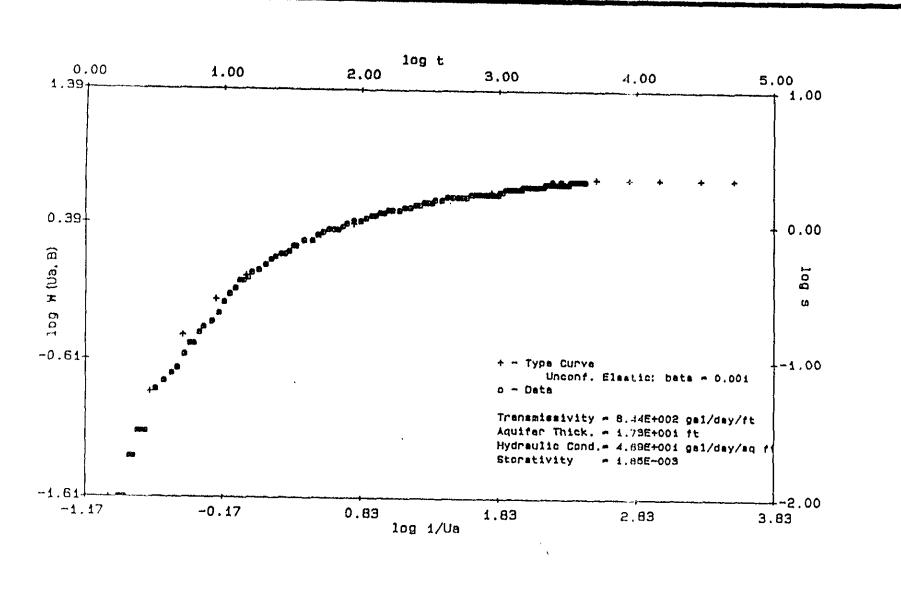
Well Number	Groundwater Elevation (ft. datum MSL)	
MW-1	326.21	
MW-2	325.98	
MW-3	326.33	
MW-4	326.02	
MW-6	325.69	
MW-7.	326.98 <sub>-</sub>	
MW-8	326.14	
MW-9	325.13	
MW-10	325.47	
MW-11	325.22	
MW-12	325.38	
RW-1	325.31	





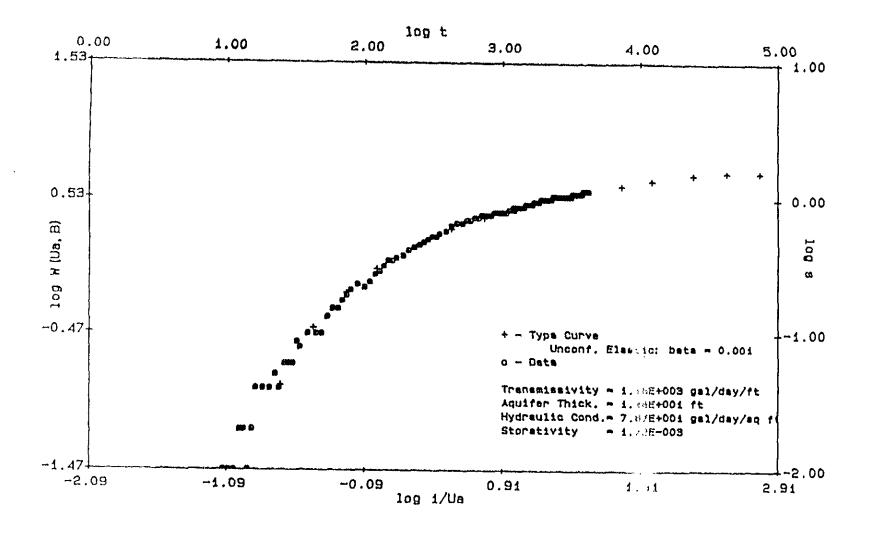


	RW-1 CONSTANT DISCHARGE PUMP TEST ANALYSIS (AUGUST 1-4, 1989)	REVIEWED BY:	APPROVED 8:
ensco	FORMER SHELL SERVICE STATION		}
environmental	7194 AMADOR VALLEY BLVD.	<sup>JO8</sup> 1826G	DRAWN BY:
services, inc.	DUBLIN, CALIFORNIA	DATE: 8-25-89	DRAWING #:

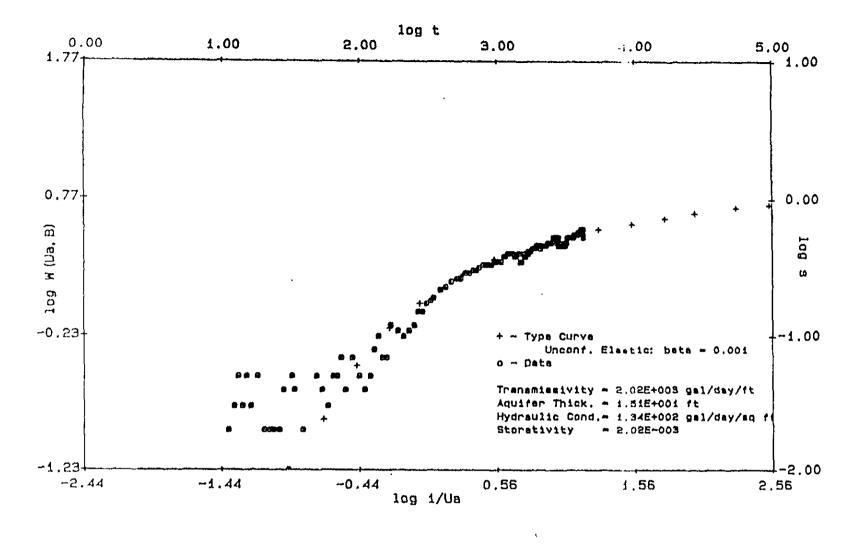


14.11

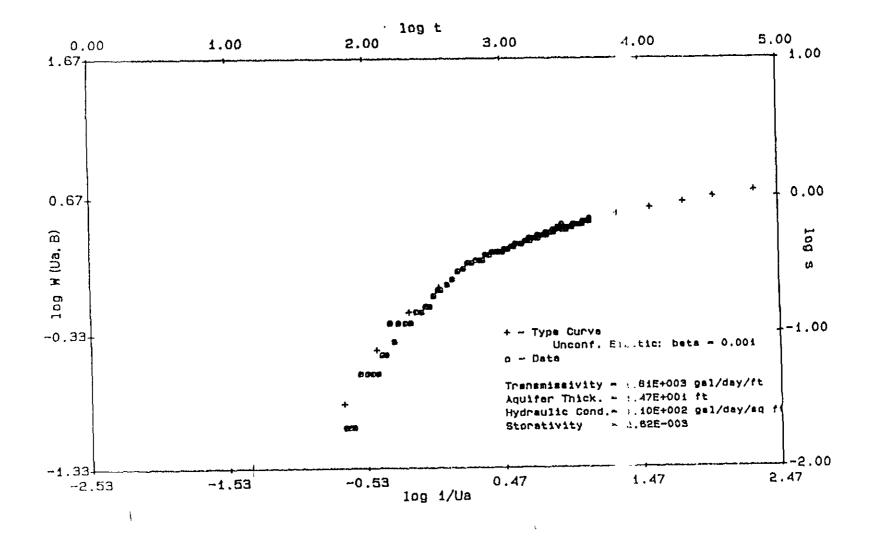
MW-1 CONSTANT DISCHARGE PUMP TEST ANALYSIS (AUGUST 1-4, 1989)	REVIEWED BY:	APPROVED BY:
FORMER SHELL SERVICE STATION		
7194 AMADOR VALLEY BLVD.	<sup>JOB</sup> 1826G	DRAWN BY:
DUBLIN, CALIFORNIA	DATE:	DRAWING FIG. 12
	(AUGUST 1-4, 1989)  FORMER SHELL SERVICE STATION  7194 AMADOR VALLEY BLVD.	(AUGUST 1-4, 1989)  FORMER SHELL SERVICE STATION  7194 AMADOR VALLEY BLVD.  71826G



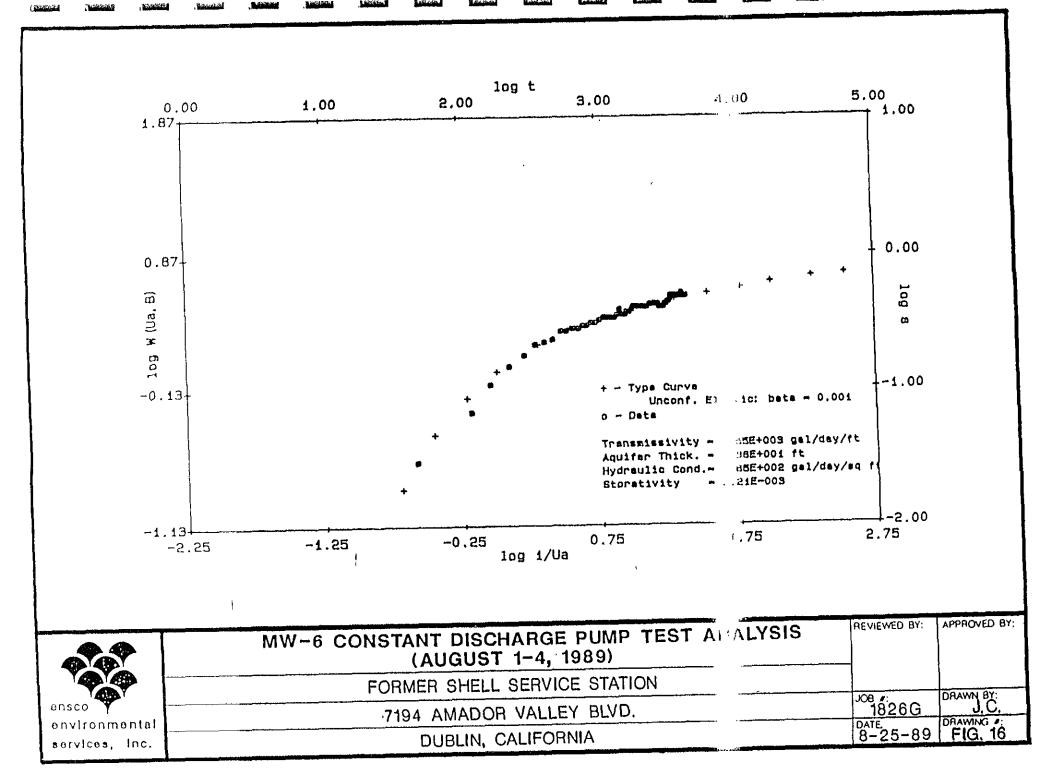
	MW-2 CONSTANT DISCHARGE PUMP TEST ANALYSIS (AUGUST 1-4, 1989)	REVIEWED BY.	APPROVED BY
ensco	FORMER SHELL SERVICE STATION		
environmental	7194 AMADOR VALLEY BLVD.	<sup>JO3</sup> 1826G	DRAWN BY.
services, inc.	DUBLIN, CALIFORNIA		DRAWING .



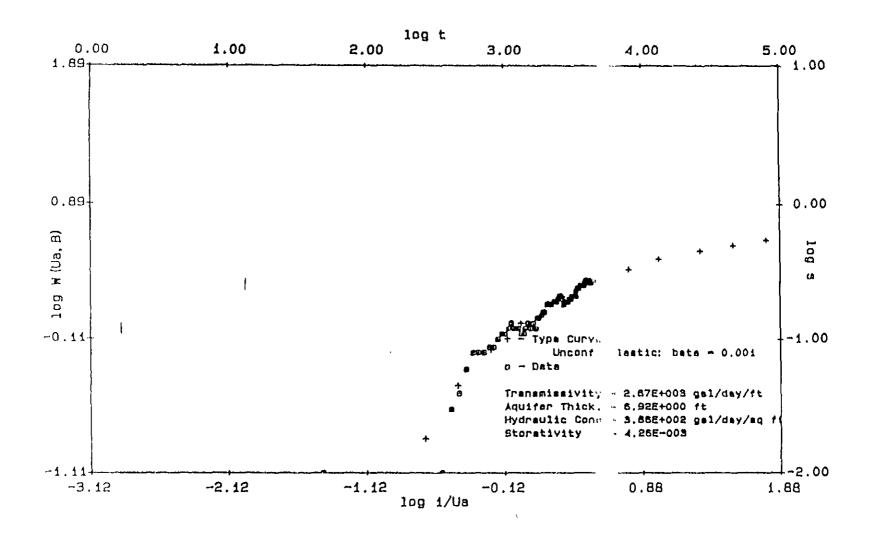
	MW-3 CONSTANT DISCHARGE PUMP TEST ANALYSIS' (AUGUST 1-4, 1989)	REVIEWED BY	APPROVED BY
ensco	FORMER SHELL SERVICE STATION		
environmental	7194 AMADOR VALLEY BLVD.	JOB 1826G	DRAWN BY: J.C.
services, inc.	DUBLIN, CALIFORNIA	0ATE: 8-25-89	DRAWING .



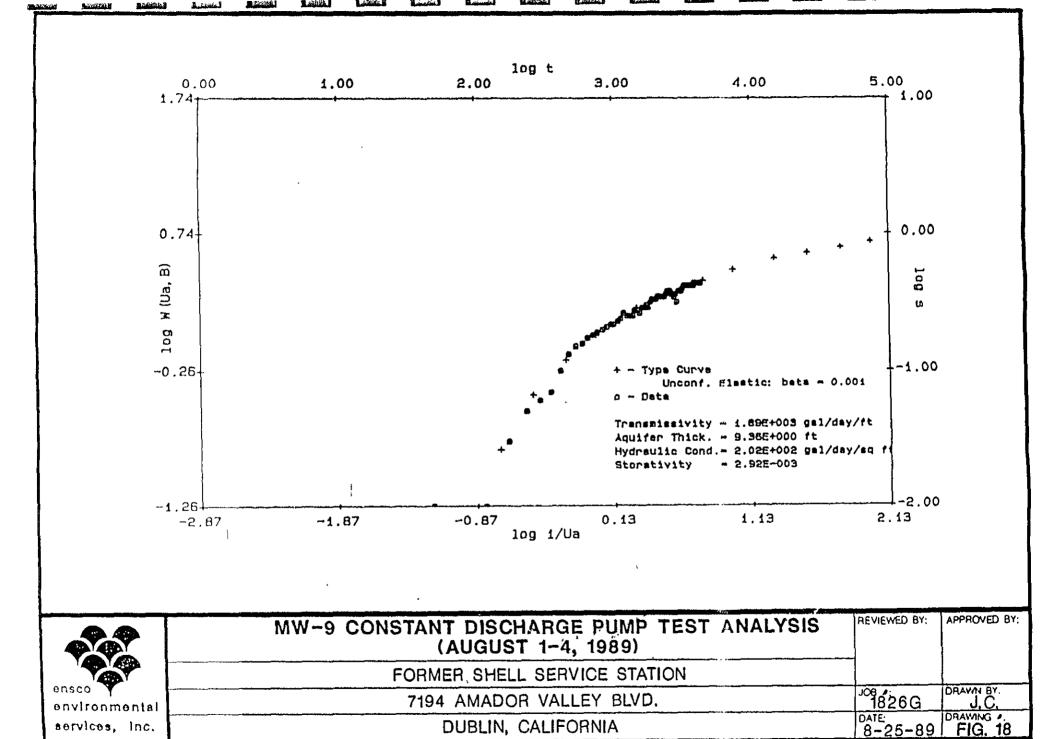
	MW-4 CONSTANT DISCHARGE PUMP TEST ANALYSIS (AUGUST 1-4, 1989)	REVIEWED BY:	APPROVED BY
	FORMER SHELL SERVICE STATION		
ensco Y environmental	7194 AMADOR VALLEY BLVD.	1826G	
services, inc.	DUBLIN, CALIFORNIA	8-25-89	FIG. 15

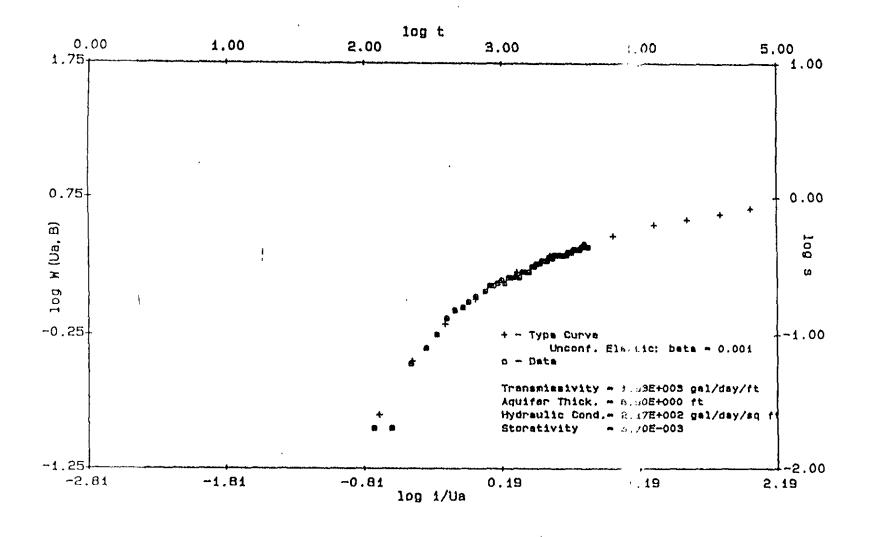


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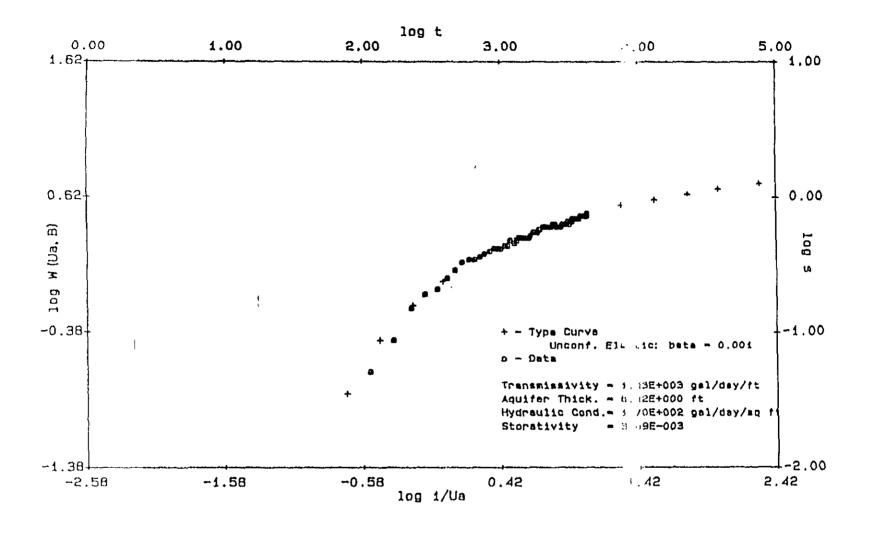


	MW-8 CONSTANT DISCHARGE PUMP TEST ARALYSIS (AUGUST 1-4, 1989)	REVIEWED BY	APPROVED B"
	FORMER SHELL SERVICE STATION		
environmental	7194 AMADOR VALLEY BLVD.	<sup>∞</sup> 1826G	DRAWN BY: J. C.
services, inc.	DUBLIN, CALIFORNIA	DATE: 8-25-89	DRAWING #:

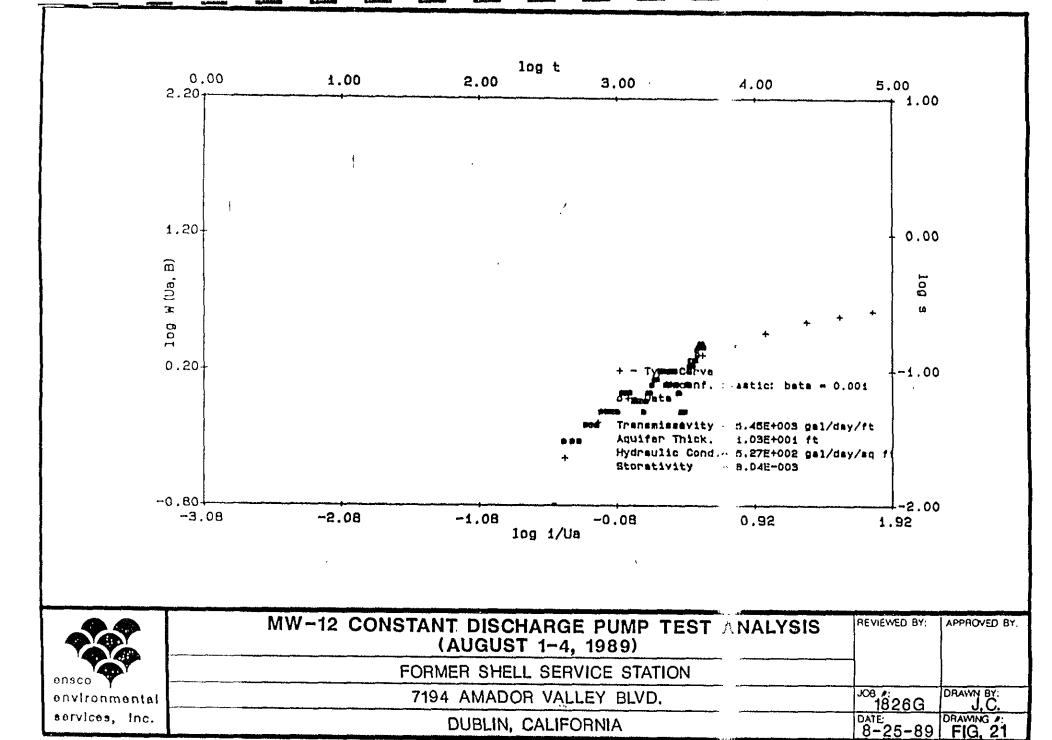




	MW-10 CONSTANT DISCHARGE PUMP TEST ANALYSIS (AUGUST 1-4, 1989)	AEVIEWED BY:	APPROVED BY:
ensco	FORMER SHELL SERVICE STATION		
environmental	7194 AMADOR VALLEY BLVD.	<sup>JOB</sup> 1826G	DRAWN BY: J. C.
services, inc.	DUBLIN, CALIFORNIA		FIG. 19



	MW-11 CONSTANT DISCHARGE PUMP TEST ANALYSIS (AUGUST 1-4, 1989)	REVIEWED BY:	APPROVED 8Y
	FORMER SHELL SERVICE STATION		_
environmental	7194 AMADOR VALLEY BLVD.	1826G	DRAWN BY: J. C.
services, inc.	DUBLIN, CALIFORNIA	DATE: 8-25-89	FIG. 20



DUBLIN, CALIFORNIA

