

ENVIRONMENTAL RESOLUTIONS, INC.

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4104

June 21, 2002  
ERI 209214AG.L02

Mr. Amir K. Gholami  
Alameda County Health Care Services Agency  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Amir 7/16/02  
(signature)  
MISSING THE REPORTS

Subject: Isoconcentration Maps and Updated Site Closure Summary Forms Package,  
Tosco 76 Service Station 7176, 7850 Amador Valley Boulevard, Dublin, California.

Mr. Gholami:

At the request of Tosco Corporation (Tosco), a subsidiary of Phillips Petroleum Company, Environmental Resolutions, Inc. (ERI) has prepared this Isoconcentration Maps and Updated Site Closure Summary Forms Package (Package) to ~~accompany ERI's Request and Work Plan for Case Closure (Closure Plan) dated August 31, 2000, and ERI's Addendum to Request and Work Plan for Case Closure (Addendum) dated June 19, 2001,~~ for the subject site. ERI prepared this Package in response to personal communication between ERI and Alameda County Health Care Services Agency (the County).

Using Gettler-Ryan, Inc.'s (GRI) *Groundwater Monitoring and Sampling Report Second Quarter - Event of April 1, 2002*, dated May 14, 2002, ERI generated isoconcentration maps showing the distribution of dissolved hydrocarbons beneath the site. The distributions of dissolved total petroleum hydrocarbons as gasoline (TPHg); total petroleum hydrocarbons as diesel (TPHd); methyl tertiary butyl ether (MTBE); and benzene in groundwater on April 1, 2002, are shown on Plates 1 through 4, respectively.

In addition, this Package includes an updated Site Closure Summary Form, which is required by the County to review closure requests. The updated Site Closure Summary Form, including updated summary tables and site plans, is provided in Attachment A.

Please refer to ERI's Closure Plan and Addendum for other necessary information required for the closure of the environmental case. The data provided in this Package, as well as in the original Closure Plan and Addendum, should complete the County's request for summary information related to closure of the environmental case at the subject site.

Please call Mr. Rob Saur, ERI's senior staff geologist for this site, at (415) 382-3591 with any questions regarding this Package.

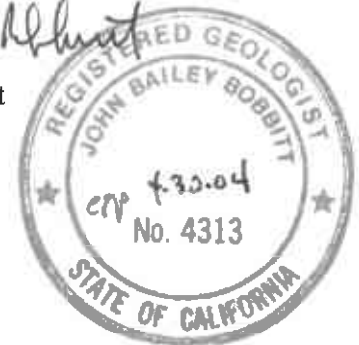
Sincerely,  
Environmental Resolutions, Inc.



Robert A. Saur  
Senior Staff Geologist



John B. Bobbitt  
R.G. 4313



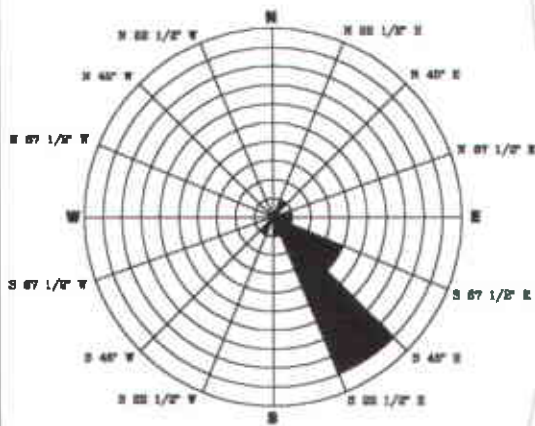
Attachment: Plate 1: TPHg Isoconcentration Map, April 1, 2002  
Plate 2: TPHd Isoconcentration Map, April 1, 2002  
Plate 3: MTBE Isoconcentration Map, April 1, 2002  
Plate 4: Benzene Isoconcentration Map, April 1, 2002

Attachment A: Updated Site Closure Summary Form

cc: Mr. Dave DeWitt, Phillips 66 Company  
Mr. Chuck Headlee, California Regional Water Quality Control Board, San Francisco Bay Region



AMADOR VALLEY BOULEVARD





APPROXIMATE SCALE



SOURCE:  
Modified from a map  
provided by  
Ron Archer Civil Engineer Inc.

FN: 2092002A

**EXPLANATION**

-  Groundwater Monitoring Well
-  Groundwater Monitoring Well

5,000-----Line of Equal TPHg Concentrations (ug/L)

5,300 TPHg concentration (ug/L)



**TPHg ISOCONCENTRATION MAP  
APRIL 1, 2002**

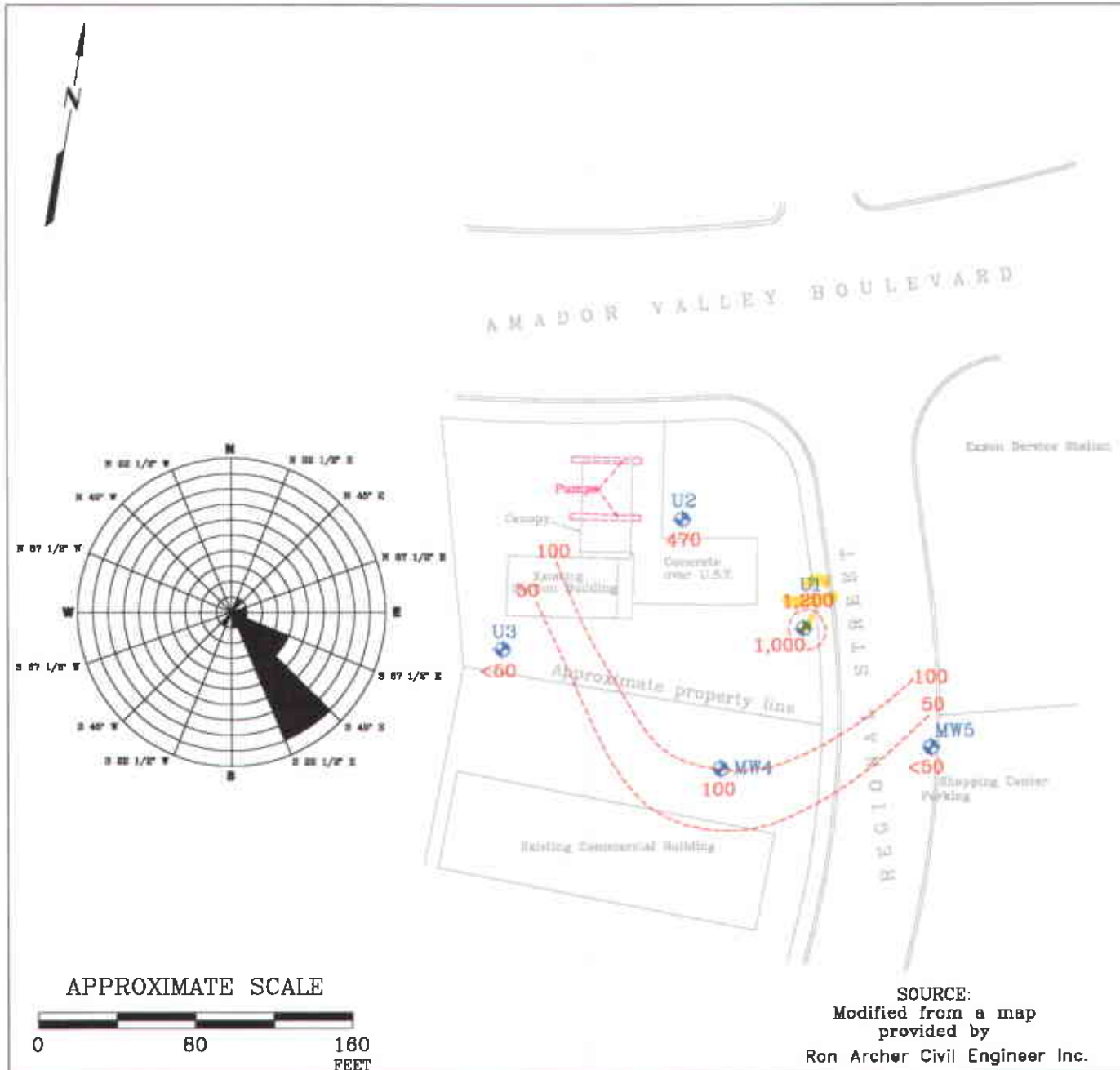
TOSCO (UNION) 76 SERVICE STATION 7176  
7805 Amador Valley Boulevard  
Dublin, California

PROJECT NO.

2092

PLATE

1



FN: 2092002A

**EXPLANATION**



Groundwater Monitoring Well

1,000 -----Line of Equal TPHg Concentrations (ug/L)

<50

TPHg concentration (ug/L)



Groundwater Monitoring Well



**TPHd ISOCONCENTRATION MAP  
APRIL 1, 2002**

TOSCO (UNION) 76 SERVICE STATION 7176  
7805 Amador Valley Boulevard  
Dublin, California

PROJECT NO.

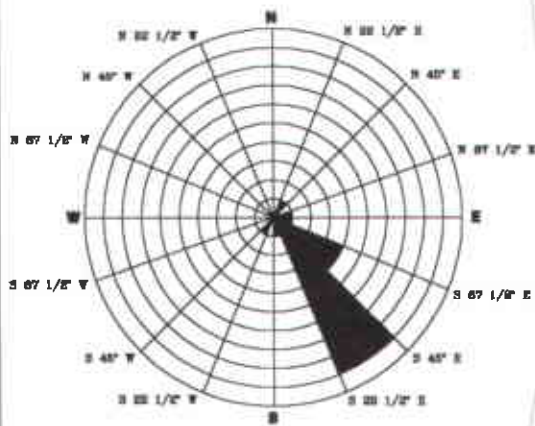
2092

PLATE

2



AMADOR VALLEY BOULEVARD



APPROXIMATE SCALE



SOURCE:  
Modified from a map  
provided by  
Ron Archer Civil Engineer Inc.

FN: 2092002A

**EXPLANATION**

MW5  
Groundwater Monitoring Well  
3.5 TPHg concentration (ug/L)

50-----Line of Equal TPHg Concentrations (ug/L)

U3  
Groundwater Monitoring Well



**MTBE ISOCONCENTRATION MAP  
APRIL 1, 2002**

TOSCO (UNION) 76 SERVICE STATION 7176  
7805 Amador Valley Boulevard  
Dublin, California

PROJECT NO.

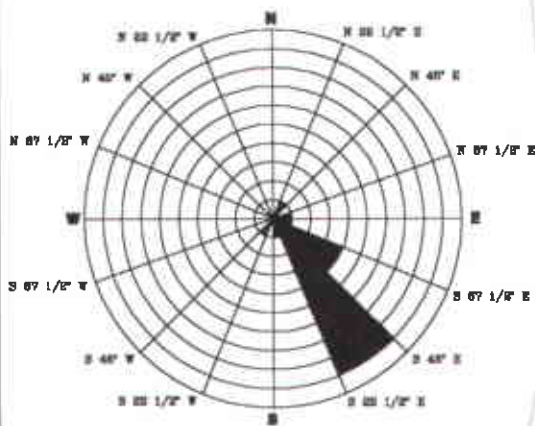
2092

PLATE

3



AMADOR VALLEY BOULEVARD






APPROXIMATE SCALE



SOURCE:  
Modified from a map  
provided by  
Ron Archer Civil Engineer Inc.

FN: 2092002A

**EXPLANATION**

-  Groundwater Monitoring Well
-  TPHg concentration (ug/L)
-  Groundwater Monitoring Well

10 -----Line of Equal TPHg Concentrations (ug/L)



**BENZENE ISOCONCENTRATION MAP  
APRIL 1, 2002**

TOSCO (UNION) 76 SERVICE STATION 7176  
7805 Amador Valley Boulevard  
Dublin, California

PROJECT NO.

2092

PLATE

4

**ATTACHMENT A**  
**UPDATED SITE CLOSURE SUMMARY FORM**

**SITE CLOSURE SUMMARY**

**I. AGENCY INFORMATION**

Agency Name: Alameda County Health Care Services Agency	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, California 94502	Phone: (510) 567-6700
Responsible Staff Person: Mr. Amir K. Gholami	Title: Hazardous Materials Specialist

**II. SITE INFORMATION**

Site Facility Name: Tosco 76 Service Station 7176				
Site Facility Address: 7850 Amador Valley Boulevard, Dublin, California				
RB/SMS Case No.: NA	Local or LOP Case No: 4104	Priority:		
URF Filing Date:	SWEEPS No.: NA			
<b>Responsible Party (include address and phone number):</b>				
Phillips 66 Company, 2000 Crow Canyon Place, Suite 400, San Ramon, California, 94583. Contact: Mr. Dave DeWitt (925) 227-2384				
Tank No.	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	10,000	Gasoline	Removed	November 1994
2	10,000	Gasoline	Removed	November 1994
3	10,000	Gasoline	Removed	November 1994
4	10,000	Diesel	Removed	November 1994
5	280	Used-Oil	Removed	November 1994

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and Type of Release: Unknown		
Site characterization complete? Yes	Date Approved By Oversight Agency:	
Monitoring wells installed? Yes	Number: 5	Proper screened interval? Yes
Highest GW Depth: 11' below TOC	Lowest Depth: 19'	Flow Direction: Southeast
Most Sensitive Current Use of Aquifer: Domestic Water Supply		
Most Sensitive Potential Use and Probability of Use: Domestic Water Supply. Probability of use of shallow aquifer for water supply is low due to silty clay soil type assumed to have low transmissivity.		
Are drinking water wells affected? No	Aquifer Name: Unknown	
Is surface water affected? No	Nearest SW Name: Drainage Ditch 800' North of Site	
Off-Site Beneficial Use Impacts (Addresses/Locations): None		
Report(s) on file? Yes	Where is report(s) filed? ACHCSA and RWQCB	



TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	(1) 280-gallon (4) 10,000-gallon	Disposal (Destination unknown)	Nov. 1994
Piping	Unknown	Disposal (Destination unknown)	Nov. 1994
Free Product	N/A	N/A	N/A
Soil	1,863 tons	Removal and Disposal at BFI Vasco Landfill	Nov. 1994
Groundwater	5,000 gallons	Removal and Disposal at Tosco Refinery	Nov. 1994
Barrels	N/A	N/A	N/A

**MAXIMUM DOCUMENTED POLLUTANT CONCENTRATIONS BEFORE AND AFTER CLEANUP**

Pollutant	1 Soil (ppm)		2 Water (ppb)		Pollutant	1 Soil (ppm)		2 Water (ppb)	
	Before	After	Before	After		Before	After	Before	After
	TPH (Gas)	2,200	1,300	39,000		5,300	Xylene	300	150
TPH (Diesel)	9,100	75	9,400	1,200	Oil & Grease	ND	NA	NA	NA
Benzene	1.6	ND	1,500	38	PCE	NA	NA	NA	NA
Toluene	54	31	19	9.3	MTBE	NA	NA	790	59
Ethylbenzene	36	26	2,200	48	Heavy Metal	7.1	NA	NA	NA

1 – From: Enviro, Inc. March 23, 1995. Storage Tank Replacement Observation Report, Unocal Service Station No. 7176. 95132.01. Enviro, Inc. October 10, 1995. Preliminary Soil and Groundwater Investigation, Unocal Service Station No. 7176. 95132.02. Environmental Resolutions, Inc. August 4, 1998. Supplemental Evaluation and Investigation Report at Tosco 76 Service Station 7176. ERI 209203.R01

2 – From: Gettler-Ryan, Inc. May 14, 2002. Second Quarter Event of April 1, 2002 – Groundwater Monitoring and Sampling Report. G-R #: 180022.

**Impacted soil at site appears limited to the vicinity of USTs, southern dispenser island, and boring U1. Soil impact has been delineated.**

Dissolved fuel hydrocarbons appear restricted to the vicinity of wells U1, U2, and MW4. Dissolved fuel hydrocarbons are delineated by wells U3 and MW5 in the downgradient/crossgradient directions of groundwater flow from on-site source areas.

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Yes		
Site Management Requirements: Site management is required if excavation is proposed in the vicinity of the UST cavity or southern dispenser island.		
Should Corrective action be reviewed if land use changes? Yes		
Monitoring Wells Decommissioned: No	Number Decommissioned: N/A	Number Retained: N/A
List Enforcement Actions Taken: N/A		
List Enforcement Actions Rescinded: N/A		

**V. LOCAL AGENCY REPRESENTATIVE DATA**Name: **Amir K. Gholami**Title: **Hazardous Materials Specialist**

Signature:

Date:

**Reviewed By:**

Name:

Title:

Signature:

Date:

Name:

Title:

Signature:

Date:

**VI. RWQCB NOTIFICATION**

Date Submitted to RB:

R.B. Response:

RWQCB Staff Name: **Chuck Headlee**

Title:

Signature:

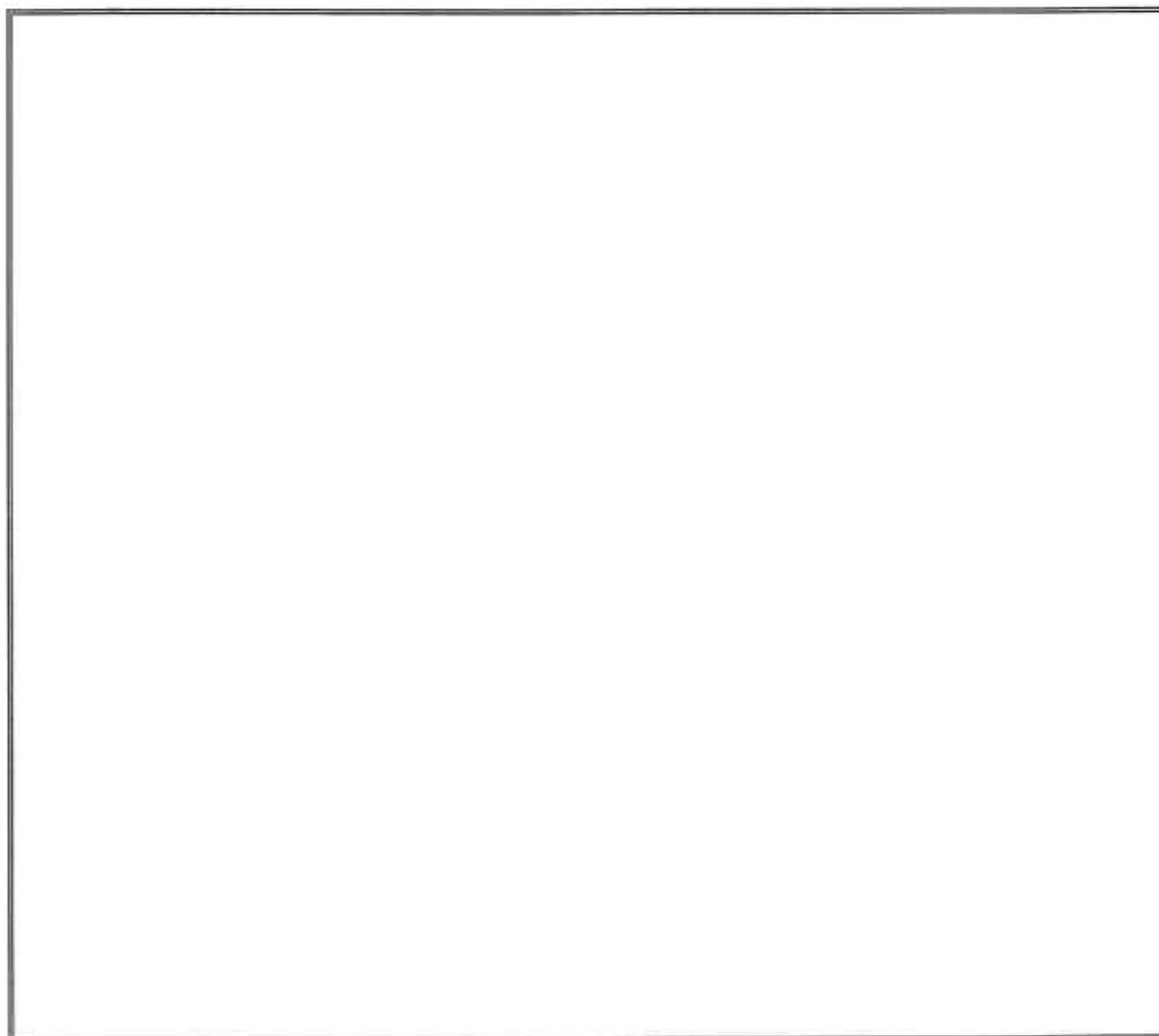
Date:

**VII. ADDITIONAL COMMENTS, DATA, ETC.**

Attached please find the following relevant information:

- 1) Table 1: Summary of Groundwater Sample Hydrocarbon Analytical Results
- 2) Table 2: Summary of Soil Sample Hydrocarbon Analytical Results
- 3) Plate 1: Potentiometric Map (from Gettler-Ryan, Inc. *Second Quarter Event of April 1, 2002 Groundwater Monitoring and Sampling Report* dated May 14, 2002)
- 4) Plate 2: Concentration Map (from Gettler-Ryan, Inc. *Second Quarter Event of April 1, 2002 Groundwater Monitoring and Sampling Report* dated May 14, 2002)

Boring Logs and Well Construction Details, Soil Sample and Soil Boring Locations, Groundwater Flow Direction Rose Diagram, and Risk-Based Corrective Action (RBCA) Analysis Results are included in ERI's *Request and Work Plan for Case Closure* dated August 31, 2000. Hydrocarbon vs. Time graphs and Criteria for Case Closure are included in ERI's *Addendum to Request and Work Plan for Case Closure* dated June 19, 2001.

**In Summary, Case Closure Is Recommended Because:**

- The primary source (former petroleum UST system) has been removed, and ongoing secondary sources (residual hydrocarbons in soil and soil vapor) have been removed to the extent feasible;
- The site has been adequately characterized;
- The dissolved plume is not migrating, and is decreasing in concentration;
- No water wells, surface water, or other sensitive receptors are likely to be impacted; and,

TABLE 1  
SUMMARY OF GROUNDWATER SAMPLE HYDROCARBON ANALYTICAL RESULTS  
Tosco 76 Service Station 7176  
7850 Amador Valley Boulevard  
Dublin, California  
(Page 1 of 3)

Well Number	Date	EPA Method 8015M (ug/L)		EPA Method 8020 (ug/L)				
		THFg	THDg	B	T	E	X	MTBE
U1	07/08/95	39,000	9,400	1,500	19	1,600	5,200	NA
	10/12/95	33,000	4,200	1,400	ND	1,400	3,100	NA
	01/11/96	8,300	8,200	690	11	680	1,500	NA
	04/11/96	3,200	630	110	ND	180	290	790
	07/10/96	2,600	2,200	81	4.4	210	230	510
	10/30/96	2,200	560	67	19	140	150	360
	01/27/97	4,600	2,300	98	ND	360	290	150
	04/08/97	2,800	1,300	50	ND	220	140	ND
	07/17/97	2,300	460	30	4.5	140	94	190
	10/17/97	1,500	510	31	6.7	110	88	220
	01/19/98	3,100	1,300*	46	3.4	310	200	170
	04/23/98	3,400	1,700*	72	3.8	470	350	280
	07/08/98	4,500	2,000	51	ND	590	430	190
	10/05/98	7,500	2,500*	53	ND	680	350	180**
	01/04/99	10,000	2,500*	ND	ND	1,200	540	ND
	04/05/99	4,900	570*	34	ND	350	150	55**
	07/01/99	10,000	3,600*	45	ND	850	420	110**
	09/30/99	7,150	1,680*	ND	ND	415	84.4	195**
	01/03/00	5,400	1,700*	28	8.4	180	33	120**
	04/04/00	4,800	1,400*	30	ND	210	93	160**
	07/14/00	6,200	1,200*	41	16	170	32	120**
	10/27/00	3,830	1,300*	17	ND	68.6	7.99	38**
	01/08/01	2,410	873*	15	4.30	30.5	5.04	9.33**
	04/03/01	3,330	830*	15.8	5.96	74.8	7.06	13.3**
	07/06/01	4,300	1,200*	23	6.40	57	6.8	36**
	10/05/01	3,800	2,300*	19	<5	19	<5	36**
01/03/02	4,500	2,200*	25	<10	24	<10	23**	
04/01/02	5,300	1,200*	36	6.70	48	12	59**	
U2	07/08/95	17,000	4,700	430	ND	2,200	590	NA
	10/12/95	24,000	3,600	310	60	1,900	190	NA
	01/11/96	10,000	8,600	210	55	1,400	240	NA
	04/11/96	7,700	1,900	130	27	1,100	110	340
	07/10/96	5,600	2,300	59	15	610	42	250
	10/30/96	7,700	1,800	67	35	1,000	54	260
	01/27/97	1,600	660	14	ND	130	7.0	100
	04/08/97	4,300	2,000	35	ND	400	16	ND
	07/17/97	6,200	1,300	17	22	410	ND	130
	10/17/97	7,100	1,400	71	26	520	50	ND
	01/19/98	5,300	1,500*	46	11	350	16	110
	04/23/98	3,200	1,200*	23	11	210	38	160
	07/08/98	1,600	1,100	34	8.5	100	7.4	190
	10/05/98	2,900	1,300*	37	8.4	110	7.3	78
	01/04/99	2,200	250*	35	ND	17	ND	86
	04/05/99	4,900	490*	21	77	130	310	6.9**
	07/01/99	1,500	440*	7.6	ND	ND	ND	35**
	09/30/99	256	340*	1.85	ND	2.42	ND	29.8**
	01/03/00	3,400	1,900*	23	13	ND	44	14**
	04/04/00	3,600	1,000*	34	17	56	ND	25**
	07/14/00	3,100	350*	16	13	15	10	19**
	10/27/00	4,180	1900*	30.4	10.2	14.6	ND	15**
	01/08/01	3,300	624*	33.5	7.32	3.49	ND	7.49**
	04/03/01	4,290	830*	32.4	9.91	20.1	ND	18.1**
	07/06/01	4,700	1,100*	35	11	12	5.3	19**
	10/05/01	3,600	1,900*	31	9.6	8.7	6.9	13**
01/03/02	4,600	2,100*	34	11	15	5.8	7.5**	
04/01/02	3,500	470*	38	9.3	10	6.5	18**	

**TABLE 1**  
**SUMMARY OF GROUNDWATER SAMPLE HYDROCARBON ANALYTICAL RESULTS**

Tosco 76 Service Station 7176  
7850 Amador Valley Boulevard  
Dublin, California  
(Page 2 of 3)

Well Number	Date	EPA Method 8015M (ug/L)		EPA Method 8020 (ug/L)				
		TPHg	TPHd	B	T	E	X	MTBE
U3	07/08/95	1,100	710	0.57	2.1	1.7	2.4	NA
	10/12/95	560	470	ND	0.87	0.7	1.1	NA
	01/11/96	230	260	0.62	0.91	0.97	1.9	NA
	04/11/96	68	ND	ND	ND	ND	ND	ND
	07/10/96	ND	ND	ND	ND	ND	ND	ND
	10/30/96	70	ND	ND	ND	ND	ND	ND
	01/27/97	ND	ND	ND	ND	ND	ND	ND
	04/08/97	ND	ND	ND	ND	ND	ND	ND
	07/17/97	ND	ND	ND	ND	ND	ND	ND
	10/17/97	ND	63	ND	ND	ND	ND	ND
	01/19/98	ND	ND**	ND	ND	ND	ND	ND
	04/23/98	ND	ND**	ND	ND	ND	ND	ND
	07/08/98	ND	80	ND	ND	ND	ND	ND
	10/05/98	ND	ND**	ND	ND	ND	ND	ND
	01/04/99	ND	ND	ND	ND	ND	ND	ND
	04/05/99	ND	ND	ND	ND	ND	ND	ND**
	07/01/99	ND	ND	ND	ND	ND	ND	ND**
	09/30/99	ND	ND	ND	ND	ND	ND	ND**
	01/03/00	ND	ND	ND	ND	ND	ND	ND**
	04/04/00	ND	ND	ND	ND	ND	ND	ND**
07/14/00	ND	ND	ND	ND	ND	ND	ND**	
10/27/00	ND	ND	ND	ND	ND	ND	ND**	
01/08/01	ND	ND**	ND	ND	ND	ND	ND**	
04/03/01	ND	ND	ND	ND	ND	ND	ND**	
07/06/01	ND	ND	ND	ND	ND	ND	ND**	
10/05/01	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0**	
01/03/02	< 50	< 52	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0**	
04/01/02	< 50	< 50	< 0.50	1.1	< 0.50	1.2	< 2.0**	
MW4	04/23/98	2,500	1,400*	5.9	6.4	16	31	ND
	07/08/98	1,000	1,400	ND	ND	ND	ND	ND
	10/05/98	890	230*	ND	ND	ND	14	ND
	01/04/99	230	71*	0.56	1.3	1.4	1.8	10
	04/05/99	620	210*	ND	1.8	2.1	ND	9.3**
	07/01/99	700	310*	2.1	ND	1.9	2.4	21**
	09/30/99	582	220*	2.60	1.30	1.98	ND	2.5**
	01/03/00	800	260*	4.2	4.6	3.3	11	17**
	04/04/00	710	340*	2.0	1.3	4.4	2.0	22**
	07/14/00	490	76*	0.89	1.3	0.85	1.8	12**
	10/27/00	598	120*	ND	1.56	4.65	ND	14**
	01/08/01	522	202*	4.09	1.69	2.53	1.26	14.3**
	04/03/01	575	ND*	ND	ND	ND	ND	11.6**
	07/06/01	720	200*	4.7	1.5	2.5	0.74	7.1**
	10/05/01	650	140*	4.3	1.2	1.1	1.8	5.4**
	01/03/02	340	360*	2.9	1.4	1.7	< 1.0	3.1**
	04/01/02	340	160*	< 0.50	2.7	< 0.50	0.66	2.2**

**TABLE 1**  
**SUMMARY OF GROUNDWATER SAMPLE HYDROCARBON ANALYTICAL RESULTS**  
 Tosco 76 Service Station 7176  
 7850 Amador Valley Boulevard  
 Dublin, California  
 (Page 3 of 3)

Well Number	Date	EPA Method 8015M (ug/L)		EPA Method 8020 (ug/L)				
		TPHg	TPHd	B	T	E	X	MTBE
MW5	04/23/98	120	100*	0.53	0.90	1.0	3.8	13
	07/08/98	ND	170	ND	ND	ND	ND	12
	10/05/98	ND	100*	ND	ND	ND	ND	12
	01/04/99	ND	ND	ND	ND	ND	ND	ND
	04/05/99	ND	ND	ND	ND	ND	ND	ND**
	07/01/99	ND	ND	ND	ND	ND	ND	2.3**
	09/30/99	50.8	ND*	ND	ND	ND	ND	ND**
	01/03/00	ND	ND	ND	ND	ND	ND	ND**
	04/04/00	ND	ND*	ND	ND	ND	ND	ND**
	07/14/00	ND	ND	ND	ND	ND	ND	ND**
	10/27/00	ND	ND	ND	ND	ND	ND	ND**
	01/08/01	ND	ND*	ND	ND	ND	ND	ND**
	04/03/01	ND	ND	ND	ND	ND	ND	ND**
	07/06/01	ND	ND	ND	ND	ND	ND	ND**
	10/05/01	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.0**
	01/03/02	<51	<50	<0.50	<0.50	<0.50	<0.50	1.6**
	04/01/02	<50	<50	<0.50	<0.50	<0.50	<0.50	3.5**

Notes:

This data table was modified from the Gettler-Ryan, Inc. Second Quarter Event of April 3, 2001 - Groundwater Monitoring and Sampling Report Tosco (Unocal) Service Station #7176, 7850 Amador Valley Boulevard, Dublin, California, dated May 14, 2001.

- EPA = Environmental Protection Agency.
- ug/L = Micrograms per liter.
- TPHg = Total petroleum hydrocarbons as gasoline.
- TPHd = Total petroleum hydrocarbons as diesel.
- BTEX = Benzene, toluene, ethylbenzene, and total xylenes.
- MTBE = Methyl tertiary butyl ether.
- NA = Not analyzed.
- ND = Not detected at or above the laboratory reporting limit.
- \* = With silica-gel clean-up.
- \*\* = Analyzed using EPA Method 8260.

**TABLE 2**  
**SUMMARY OF SOIL SAMPLE HYDROCARBON ANALYTICAL RESULTS**

Tosco 76 Service Station 7176  
 7850 Amador Valley Boulevard  
 Dublin, California  
 (Page 1 of 2)

Sample Designation	Sample Depth (feet)	Date	EPA Method 8015M (mg/kg)		EPA Method 8020 (mg/kg)			
			TPHg	TPHd	B	T	E	X
<b>1</b>								
UW-1	8	11/08/94	ND	ND	ND	ND	ND	ND
UOW-1	6	11/08/94	ND	ND	ND	ND	ND	ND
UT-1	3.5	11/08/94	ND	ND	ND	ND	ND	ND
UT-2	3.5	11/08/94	100	1,300	ND	ND	ND	0.13
UT-3	3.5	11/08/94	3.1	NA	0.017	0.25	0.097	0.56
UT-4	3.5	11/08/94	2,200	NA	ND	26	36	300
UT-5	11	11/10/94	740	25	ND	6.5	20	110
UT-6	11	11/10/94	ND	1.1	ND	ND	ND	0.0070
UT-7	19.5	11/30/94	1,300	50	ND	31	26	150
UT-8	12	11/30/94	180	24	ND	3.8	3.0	19
UT-9	8	11/30/94	180	ND	ND	ND	ND	0.59
UT-10	8	11/30/94	140	12	ND	0.62	0.84	12
UT-11	11	11/30/94	5.1	1.3	ND	ND	0.014	0.078
UX-1	14	11/08/94	NA	9,100	0.98	1.8	2.7	3.4
UX-2	14	11/08/94	NA	ND	ND	ND	ND	0.011
UX-3	15.5	11/10/94	1,600	NA	1.6	54	24	220
UX-4	15.5	11/10/94	1,500	NA	ND	11	16	160
UX-5	15.5	11/10/94	5.2	NA	0.021	0.022	0.030	0.14
UX-6	15	11/10/94	11	NA	0.011	0.067	0.046	0.40
UX-7	15	11/10/94	2.8	NA	0.0062	ND	0.016	0.16
UX-8	15	11/10/94	150	NA	0.22	3.5	2.1	21
UX-9	16	11/10/94	41	36	ND	0.074	0.43	0.37
UX-10	16	11/10/94	27	75	ND	0.062	0.29	0.049
UX-11	17	11/11/94	200	15	ND	1.2	0.94	13
UX-12	17	11/11/94	230	15	ND	2.6	3.0	24
UX-13	15	11/11/94	ND	1.6	ND	ND	ND	0.0060
UX-14	17	11/11/94	210	16	ND	0.78	0.98	9.7
<b>2</b>								
U-1-10.5	10.5	07/07/95	ND	ND	ND	ND	ND	ND
U-1-18.5	18.5	07/07/95	26	25	0.041	0.053	0.56	2.2
U-2-13	13	07/07/95	ND	1.3	0.017	ND	0.071	ND
U-2-17.5	17.5	07/07/95	97	12	ND	0.21	1.7	1.5
U-3-17.5	17.5	07/07/95	ND	ND	ND	ND	ND	ND
B-1-13	13	07/08/95	ND	1.5	ND	ND	ND	ND
B-1-18	18	07/08/95	2.1	1.0	ND	ND	0.028	0.0088
B-2-16	16	07/08/95	ND	ND	ND	ND	ND	ND
B-3-11	11	07/08/95	ND	ND	ND	ND	ND	ND
B-3-17	17	07/08/95	ND	ND	ND	ND	ND	ND
B-4-11.5	11.5	07/08/95	ND	ND	ND	ND	ND	ND
B-4-16	16	07/08/95	ND	1.7	ND	ND	ND	ND
B-5-14.5	14.5	07/08/95	5	ND	0.13	0.020	0.29	0.12
B-4-18	18	07/08/95	59	4.8	0.068	ND	0.84	0.98
B-6-14.5	14.5	07/08/95	4.9	ND	0.088	ND	0.099	0.22
B-6-19.5	19.5	07/08/95	150	10	0.21	3.0	3.2	19

**TABLE 2**  
**SUMMARY OF SOIL SAMPLE HYDROCARBON ANALYTICAL RESULTS**

Tosco 76 Service Station 7176  
 7850 Amador Valley Boulevard  
 Dublin, California  
 (Page 2 of 2)

Sample Designation	Sample Depth (feet)	Date	EPA Method 8015M (mg/kg)		EPA Method 8020 (mg/kg)			
			TPHg	TPHd	B	T	E	X
<sup>3</sup> S-10-B7	10	04/15/98	ND	ND	ND	ND	ND	ND
S-10-B8	10	04/15/98	ND	ND	ND	ND	ND	ND

Notes:

- EPA = Environmental Protection Agency.
- mg/kg = Milligrams per kilogram.
- TPHg = Total petroleum hydrocarbons as gasoline.
- TPHd = Total petroleum hydrocarbons as diesel.
- BTEX = Benzene, toluene, ethylbenzene, and total xylenes.
- NA = Not analyzed.
- ND = Not detected at or above the laboratory reporting limit.


- <sup>1</sup> Enviros, Inc. March 23, 1995. Storage Tank Replacement Observation Report, Unocal Service Station No. 7176, 7850 Amador Valley Road, Dublin, California. 95132.01
- <sup>2</sup> Enviros, Inc. October 10, 1995. Preliminary Soil and Groundwater Investigation, Unocal Service Station No. 7176, 7850 Amador Valley Road, Dublin, California. 95132.02
- <sup>3</sup> Environmental Resolutions, Inc. August 4, 1998. Supplemental Evaluation and Investigation Report at Tosco (Union) 76 Service Station 7176, 7850 Amador Valley Boulevard, Dublin, California. ERI 209203.R01

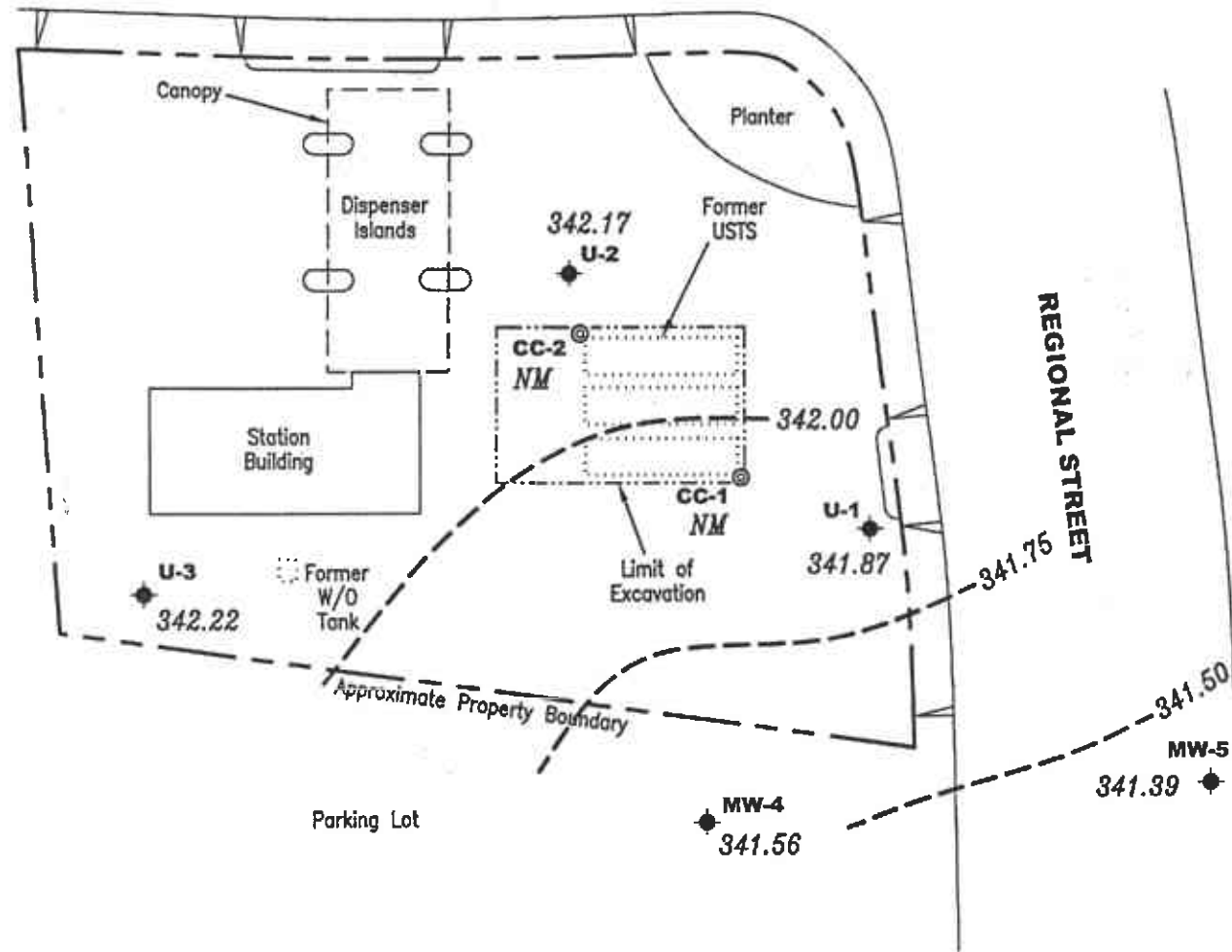
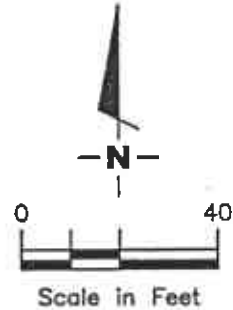


**AMADOR VALLEY BOULEVARD**

**EXPLANATION**

- ◆ Groundwater monitoring well
- ⊙ Conductor casing
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred
- NM Not Monitored

  
 Approximate groundwater flow direction at a gradient of 0.005 to 0.008 Ft./Ft.



Source: Figure modified from drawing provided by MPDS Services, Inc.

**GETTLER - RYAN INC.**  
 6747 Sierra Ct., Suite J  
 Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**  
 Tosco (Unocal) Service Station #7176  
 7850 Amador Valley Boulevard  
 Dublin, California

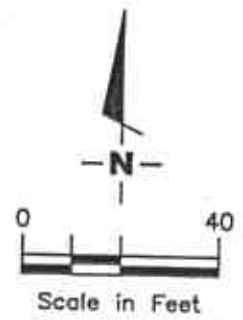
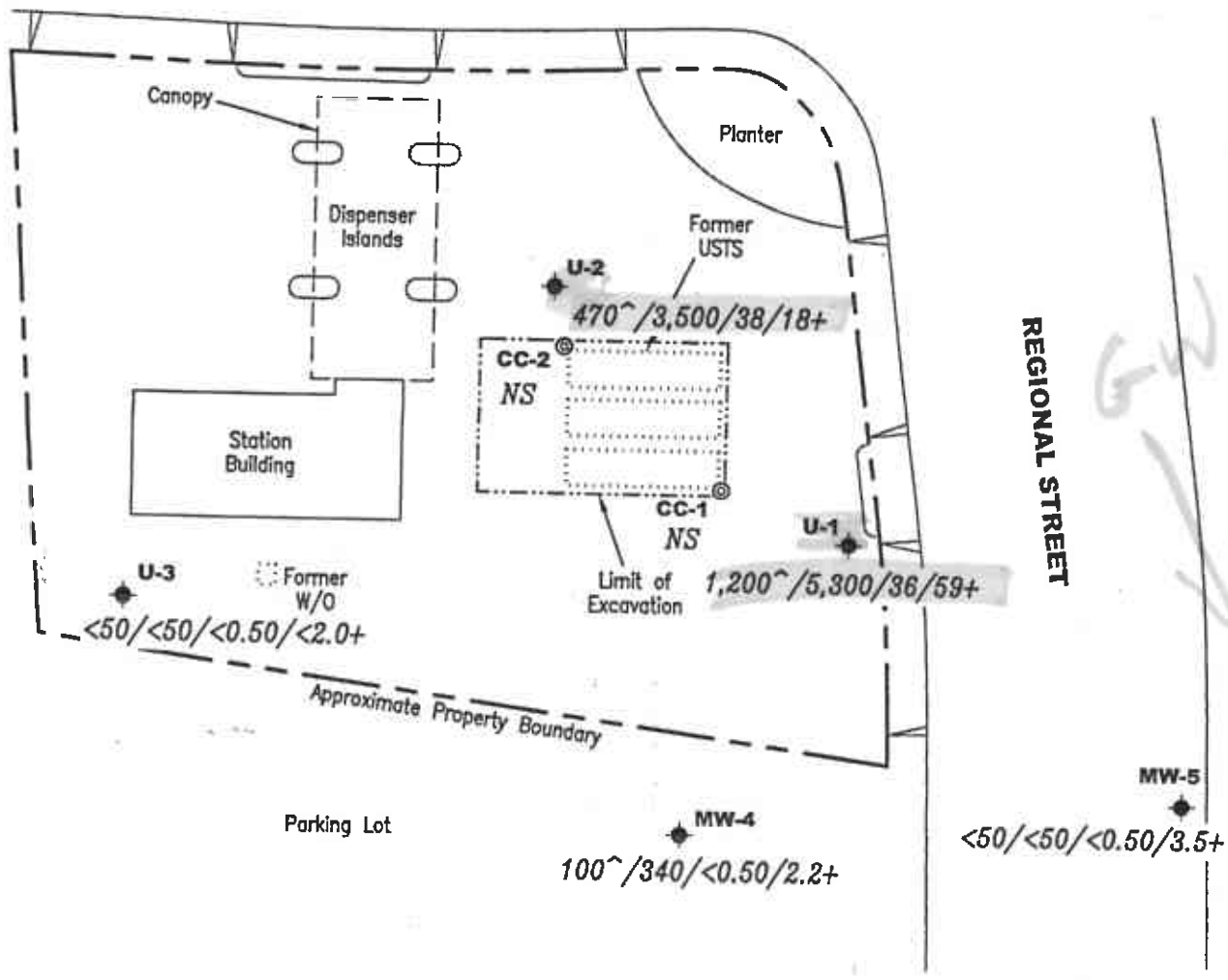
FIGURE  
**1**

PROJECT NUMBER 180022	REVIEWED BY	DATE April 1, 2002	REVISED DATE
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**AMADOR VALLEY BOULEVARD**

**EXPLANATION**

- ◆ Groundwater monitoring well
- ⊙ Conductor casing
- A/B/C/D Total Petroleum Hydrocarbons (TPH) as Diesel/TPH as Gasoline/Benzene/MTBE concentrations in ppb
- ~ w/silica gel cleanup
- + MTBE by EPA Method 8260
- NS Not Sampled



Source: Figure modified from drawing provided by MPDS Services, Inc.

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**CONCENTRATION MAP**  
 Tosco (Unocal) Service Station #7176  
 7850 Amador Valley Boulevard  
 Dublin, California

FIGURE  
**2**

PROJECT NUMBER  
 180022

REVIEWED BY

DATE  
 April 1, 2002

REVISED DATE

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