

January 28, 1999 Project 20805-132.006

Mr. Paul Supple ARCO Products Company P.O. Box 6549 Moraga, California 94570

# ARCO QUARTERLY STATUS REPORT

Station No.: 6041 Address: 7249 Village Parkway, Dublin, California

Pinnacle Project No. 20805-132.006

ARCO Environmental Engineer/Phone No.: Primary Agency/Regulatory ID No.: Primary Agency/Regulatory ID No.: 7249 Village Parkway, Dublin, California
20805-132.006

Paul Supple /(925) 299-8891

Glen VanderVeen/(925) 977-9020

Alameda County Health Care Services Agency (ACHCSA)

# WORK PERFORMED THIS QUARTER (FOURTH - 1998):

- 1. Prepared and submitted quarterly groundwater monitoring report for third quarter 1998.
- 2. No environmental work was conducted at the site during the fourth quarter 1998.

## WORK PROPOSED FOR NEXT QUARTER (FIRST - 1999):

- 1. Prepare and submit quarterly status report for fourth quarter 1998.
- 2. Perform semi-annual groundwater monitoring and sampling for the first quarter 1999.

If you have any questions regarding this report, please call.

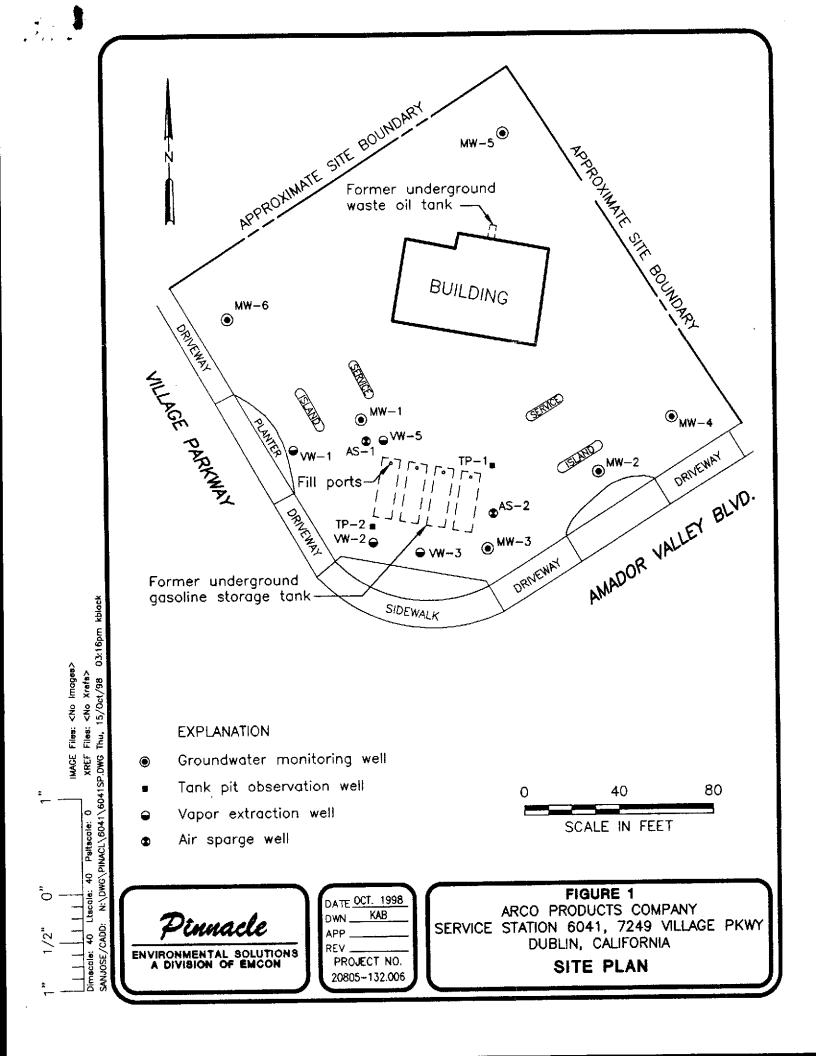
Sincerely,

Pinnacle

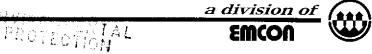
Glen VanderVeen Project Manager

Attachment: Figure 1 - Site Plan

cc: Eva Chu, ACHCSA







99 JSH -5 AM 9: 22

December 30, 1998 Project 20805-132.006

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Mr. Paul Supple ARCO Products Company P.O. Box 6549 Moraga, California 94570

Re: Quarterly Groundwater Monitoring Report, Third Quarter 1998, for ARCO Service Station

No. 6041, located at 7249 Village Parkway, Dublin, California

Dear Mr. Supple:

Pinnacle Environmental Solutions, a division of EMCON (Pinnacle), is submitting the attached report which presents the results of the third quarter 1998 groundwater monitoring program at ARCO Products Company (ARCO) Service Station No. 6041, located at 7249 Village Parkway, Dublin, California. The monitoring program complies with the Alameda County Health Care Services Agency requirements regarding underground tank investigations.

#### LIMITATIONS

No monitoring event is thorough enough to describe all geologic and hydrogeologic conditions of interest at a given site. If conditions have not been identified during the monitoring event, results should not be construed as a guarantee of the absence of such conditions at the site, but rather as the product of the scope and limitations of work performed during the monitoring event.

Please call if you have questions.

Sincerely,

Pinnacle

Glen VanderVeen

Project Manager

y R Johnson, R.G.

Senior Project Supervisor

Attachment: Quarterly Groundwater Monitoring Report, Third Quarter 1998

cc: Eva Chu, ACHCSA

## ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Station No.:	6041	Address:	7249 Village Parkway, Dublin, California	
	Pi	nnacle Project No.	20805-132.006	
ARCO E	nvironmental En	gineer/Phone No.:	Paul Supple /(925) 299-8891	
Pir	inacle Project Ma	nager/Phone No.:	Glen VanderVeen/(925) 977-9020	
1	Primary Agency/I	Regulatory ID No.:	ACHCSA /Eva Chu	

#### **WORK PERFORMED THIS QUARTER (THIRD - 1998):**

- 1. Prepared and submitted status report for second quarter 1998.
- 2. Performed semi-annual groundwater monitoring and sampling for third quarter 1998.

### **WORK PROPOSED FOR NEXT QUARTER (FOURTH - 1998):**

- Prepare and submit semi-annual groundwater monitoring report for third quarter 1998.
- 2. No environmental work is scheduled for the site during the fourth quarter 1998.

#### **MONITORING:**

Current Phase of Project:	Monitoring
Frequency of Groundwater Sampling	Semi-annual (1st/3rd quarter): MW-1, MW-2, MW-3
Frequency of Groundwater Monitoring	Semi-annual
Is Floating Product (FP) Present On-site:	☐ Yes ⊠ No
Bulk Soil Removed to Date :	15 cubic yards of TPH impacted soil
Bulk Soil Removed This Quarter:	None
Water Wells or Surface Waters,	
within 2000 ft., impacted by site:	None
Current Remediation Techniques:	None
Average Depth to Groundwater:	8.3 feet
Groundwater Gradient (Average):	0.01 ft/ft toward Northwest

#### ATTACHMENTS:

- Table 1 Historical Groundwater Elevation and Analytical Data (Petroleum Hydrocarbons and Their Constituents)
- Table 2 Historical Groundwater Elevation Data (UNOCAL, BP and Shell Stations)
- Figure 1 Groundwater Analytical Summary Map
- Figure 2 Groundwater Elevation Contour Map
- Appendix A Sampling and Analysis Procedures
- Appendix B Certified Analytical Reports and Chain-of-Custody Documentation
- · Appendix C Field Data Sheets

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present\*

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Well Designation	Water Level Field Date	H Top of Casing G Elevation	Depth to Water	Groundwater G Elevation	Floating Product	Groundwater Row Direction	Hydraulic ∰ Gradient	Water Sample Field Date	TPHG	Benzene EPA 8020	Tolucne	Ethylbenzene EPA 8020	Total Xylenes  Rep. EPA 8020	MTBE T EPA 8020	MTBE T EPA 8240
MW-1	02-15-95	336.56	8.53	328.03	ND	NR	NR	02-15-95	200					<del></del>	
MW-1	05-24-95	336.56	9.00	327.56	ND	ESE			820	15	<1	5.2	1.4		
MW-1	08-25-95	336.56	10.30	326.26	ND	NW	0.002	05-24-95	640	12	<1	7.3	<1	• •	
MW-1	11-28-95	336.56	11.01	325.55	ND		0.006	08-25-95	780	2	<1	2	2	2500	
MW-I	02-26-96	336.56	7.35	329.21	ND	N E	0.006	11-28-95	570	2.2	<0.5	1.4	0.9		
MW-1	05-23-96	336.56	8.73	327.83	ND	FG	0.012	03-13-96	1100	28	<7	13	7	3400	
MW-1	08-23-96	336.56	10.25	326.31	ND	FG	FG	05-23-96	560	8.5	<1	1.1	<i< td=""><td>3900</td><td></td></i<>	3900	
MW-1	03-21-97	336.56	9.35	327.21			FG	08-23-96	860	<1	<1	<4	2	5600	• •
MW-1	08-20-97	336.56	10.75	327.21	ND	SSE	0.005	03-21-97	520	12	<0.5	2:7	1.5	6200	• •
MW-1	11-21-97	336.56			ND	SSW	100.0	08-20-97	<5000	<50	<50	<50	<50	7400	
MW-1	02-12-98		11.10	325.46	ND	SSW	0.002	11-21-97	<5000	<50	<50	<50	<50	8500	
MW-1		336.56	7.05	329.51	ND	E	0.024	02-12-98	210	<0.5	< 0.5	<0.5	<0.5	8900	
IV1 VV - 1	07-31-98	336.56	10.04	326.52	ND	NW	0.01	07-31-98	<20000	<200	<200	<200	<200	18000	
MW-2	02-15-95	334.80	6.75	328.05	ND	NR	NR	02-15-95	730	110	1.7	25	66		
MW-2	05-24-95	334.80	6.88	327.92	ND	ESE	0.002	05-24-95	370	110	<1	17	1.9		+ -
MW-2	08-25-95	334.80	7.91	326.89	ND	NW	0.006	08-25-95	150	. 6	<1	₹/ <i< td=""><td>1.9 &lt;1</td><td>2700</td><td></td></i<>	1.9 <1	2700	
MW-2	11-28-95	334.80	9.06	325.74	ND	N	0.006	11-28-95	<50	<0.5	< 0.5	<0.5	0.8		
MW-2	02-26-96	334.80	6.65	328.15	ND	E	0.012	03-13-96	350	66	<0.5	11	1.7	 <3	••
MW-2	05-23-96	334.80	6.90	327.90	ND	FG	FG	05-23-96	540	140	<2.5	13	<2.5		
MW-2	08-23-96	334.80	8.45	326.35	ND	FG	FG	08-23-96	180	0.8	2	0.7		4600	
MW-2	03-21-97	334.80	7.28	327.52	ND	SSE	0.005	03-21-97	410	90			2.6	4000	
MW-2	08-20-97	334.80	8,87	325.93	ND	SSW	0.001	08-20-97	<5000	<50	<1 <50	Į4 .co	4	3800	
MW-2	11-21-97	334.80	9.28	325.52	ND	SSW	0.002	11-21-97	<2000	<30 <20	<30 <20	<50	<50	3100	
MW-2	02-12-98	334.80	5.90	328.90	ND	E	0.024	02-12-98	310			<20	<20	2600	
MW-2	07-31-98	334.80	8.12	326.68	ND	NW	0.024	07-31-98		54 53	<0.5	6.2	1.1	3800	• •
			*	220.00		4477	0.01	07-31-90	6100	52	220	110	1100	7700	

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present\*

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Well Designation	Water Level Field Date	H. Top of Casing G. Elevation	हें Depth to Water	-3. Groundwater W Elevation	Floating Froduct	Groundwater Flow Direction	Hydraulic P Gradient	Water Sample Field Date	TPHG	Benzene G EPA 8020	न Toluene चि EPA 8020	Ethylbenzene E EPA 8020	Total Xylenes	T MTBE	்த EPA 8240
MW-3	02-15-95	335.53	8.55	326.98	ND	NR	NR	02-15-95	100	14	<0.5	6.3	<0.5		·
MW-3	05-24-95	335.53	8.17	327.36	ND	ESE	0.002	05-24-95	110	8	<0.5	2.7	<0.5		- •
MW-3	08-25-95	335.53	9.27	326.26	ND	NW	0.002	08-25-95	210	3.6	<0.5	2.9	0.6	20000	
MW-3	11-28-95	335.53	9.91	325.62	ND	N	0.006	11-28-95	81	1.5	<0.5	1.4	<0.5		15000
MW-3	02-26-96	335.53	8.42	327.11	ND	E	0.012	03-13-96	16000	1600	1200	300	2000	9500	15000
MW-3	05-23-96	335,53	7.70	327.83	ND	FG	FG	05-23-96	6500	690	<10	120	14	8600	
MW-3	08-23-96	335.53	9.25	326.28	ND	FG	FG	08-23-96	1700	85	2.1	61	5.3	11000	
MW-3	03-21-97	335.53	8.72	326.81	ND	SSE	0.005	03-21-97	100	2	~·· \	1	<1	6600	
MW-3	08-20-97	335.53	9.73	325.80	ND	ssw	0.001	08-20-97	<5000	<50	<50	<50	<50	7700	
MW-3	11-21-97	335.53	10.10	325.43	ND	SSW	0.002	11-21-97	<5000	<50	<50	<50	<50	9700	
MW-3	02-12-98	335.53	6.68	328.85	ND	E	0.024	02-12-98	110	11	<0.5	<0.5	1.9	10000	
MW-3	07-31-98	335.53	7.98	327.55	ND	NW	0.01	07-31-98	<10000	<100	<100	<100	<100	13000	
MW-4	02-15-95	334.22	7.85	326.37	ND	NR	NR	02-15-95	<50	<0.5	<0.5	<0.5	< 0.5		
MW-4	05-24-95	334.22	6.68	327.54	ND	ESE	0.002	05-24-95	Not sampled: w	ell sampled :	semi-annually	, during the f	irst and third	quarters .	
MW-4	08-25-95	334.22	6.93	327,29	ND	NW	0.006	08-25-95	<50	<0.5	<0.5	<0.5	< 0.5	<.3	
MW-4	11-28-95	334.22	8.21	326.01	ND	N	0.006	11-28-95	Not sampled: w	ell sampled :	semi-annually	, during the f	irst and third	quarters	
MW-4	02-26-96	334.22	6.65	327.57	ND	E	0.012	03-13-96	<50	< 0.5	< 0.5	< 0.5	< 0.5	<3	
MW-4	05-23-96	334.22	6.47	327.75	ND	FG	FG	05-23-96	Not sampled; w	eil sampled :	semi-annualty	, during the f	irst and third	quarters	
MW-4	08-23-96	334.22	7.66	326.56	ND	FG	FG	08-23-96	Not sampled; w					·•	
MW-4	03-21-97	334.22	6.84	327.38	ND	SSE	0.005	03-21-97	Not sampled; w	ell not part o	of sampling pr	ogram			
MW-4 .	08-20-97	334.22	8.32	325.90	ND	SSW	0.001	08-20-97	Not sampled: w	ell not part o	of sampling pr	ogram			
MW-4	11-21-97	334,22	8.65	325.57	ND	ssw	0.002	11-21-97	Not sampled: w	ell not part o	of sampling pr	ogram			
MW-4	02-12-98	334.22	6.35	327.87	ND	E	0.024	02-12-98	Not sampled: w	ell not part o	of sampling pr	ogram			
MW-4	07-31-98	334.22	6.84	327.38	ND	NW	0.01	07-31-98	Not sampled: w	ell not part o	of sampling pr	ogram			

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Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present\*

Well Designation	Water Level Field Date	77 Top of Casing TS Elevation	R. Depth to Water	r Groundwater	Floating Product	K Groundwater K Flow Direction	Hydraulic P. Gradient	Water Sample Field Date	TPHG	Benzenc F EPA 8020	파 Toluene 전 EPA 8020	Ethylbenzene	Total Xylenes	MTBE P EPA 8020	MTBE EPA 8240
MW-5	02-15-95	335.87	7.80	328.07	ND	NR	NR	02-15-95	<50	<0.5	<0.5	<0.5	<0.5		
MW-5	05-24-95	335.87	8,10	327.77	ND	ESE	0.002	05-24-95	Not sampled; we						
MW-5	08-25-95	335.87	9,43	326.44	ND	NW	0.006	08-25-95	Not sampled: we						
MW-5	11-28-95	335.87	10.12	325.75	ND	N	0.006	11-28-95	Not sampled: we						
MW-5	02-26-96	335.87	6.73	329.14	ND	E	0.012	03-13-96	<50	<0.5	<0.5	<0.5	<0.5	<3	
MW-5	05-23-96	335.87	7.87	328.00	ND	FG	FG	05-23-96	Not sampled: we	il sampled a	nnually, duri	ng the tirst qu	uarter		
MW-5	08-23-96	335.87	9.46	326.41	ND	FG	FG	08-23-96	Not sampled; we						
MW-5	03-21-97	335.87	8.23	327.64	ND	SSE	0.005	03-21-97	Not sampled; we	ell not part of	sampling pr	ogram			
MW-5	08-20-97	335.87	9.92	325.95	ND	SSW	0.001	08-20-97	Not sampled: we	ll not part of	sampling pr	ogram			
MW-5	11-21-97	335.87	10.13	325.69	ND	SSW	0.002	11-21-97	Not sampled: we						
MW-5	02-12-98	335.87	6.45	329.42	ND	E	0.024	02-12-98	Not sampled: we	ll not part of	f sampling pr	ogram			
MW-5	07-31-98	335.87	8.98	326.89	ND	NW	0.01	07-31-98	Not sampled: we	ell not part of	t sampling pr	ogram			
MW-6	02-15-95	335.84	7.81	328.03	ND	NR	NR	02-15-95	<50	<0.5	< 0.5	<0.5	<0.5		
MW-6	05-24-95	335.84	8.35	327.49	ND	ESE	0.002	05-24-95	Not sampled: we	il sampled a	nnually, duri	ng the first qu	uarter		
MW-6	08-25-95	335.84	9.71	326.13	ND	NW	0.006	08-25-95	Not sampled: we						
MW-6	11-28-95	335.84	10.28	325.56	ND	N	0.006	11-28-95	Not sampled: we						
MW-6	02-26-96	335.84	6.60	329.24	ND	E	0.012	03-13-96	<50	<0.5	<0.5	<0.5	< 0.5	<3	
MW-6	05-23-96	335.84	8.05	327.79	ND	FG	FG	05-23-96	Not sampled: we	ill sampled a	nnually, duri	ng the first qu	uarter		
MW-6	08-23-96	335.84	9.58	326.26	ND	FG	FG	08-23-96	Not sampled: we						
MW-6	03-21-97	335.84	8.59	327.45	ND	SSE	0.005	03-21-97	Not sampled: we						
MW-6	08-20-97	335.84	9.98	325.86	ND	SSW	0.001	08-20-97	Not sampled: we						
MW-6	11-21-97	335.84	10.31	325.53	ND	SSW	0.002	11-21-97	Not sampled: we						
MW-6	02-12-98	335.84	3.15	332.69	ND	E	0.024	02-12-98	Not sampled: we						
MW-6	07-31-98	335.84	9.29	326.55	ND	NW	0.01	07-31-98	Not sampled: we						

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present\*

Well Designation	Water Level Field Date	Top of Casing	न्न Depth to Water	4 Groundwater VG Elevation	Floating Product 하 Thickness	Groundwater G How Direction	Hydraulic	Water Sample Field Date	TPHG	# Benzene で EPA 8020	Toluene S EPA 8020	Ethylbenzene	Total Xylenes	TEPA 8020	MTBE © EPA 8240
VW-2	03-21-97	NR	8.22	NR	ND	SSE	0.005	03-21-97	150	8.9	<0.5	<0.5	0.6	270	
VW-2	08-20-97	NR	9.16	NR	ND	SSW	0.001	08-20-97	Not sampled; v				0.0	210	
VW-2	11-21-97	NR	8.27	NR	ND	SSW	0.002	11-21-97	<200	3	<2	<2	<2	180	• •
VW-2	02-12-98	NR	6.65	NR	ND	E	0.024	02-12-98	200	19	<0.5	0.6	<0.5	2200	
VW-2	07-31-98	NR	7.01	NR	ND	NW	0.01	07-31-98	Not sampled; w					2200	

ft-MSL: elevation in feet, relative to mean sea level

MWN: ground-water flow direction and gradient apply to the entire monitoring well network

ft/ft: foot per foot

TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method

μg/L: micrograms per liter

EPA: United States Environmental Protection Agency

MTBE: Methyl-tert-butyl ether

ND: none detected

NR: not reported; data not available or not measurable

NW: Northwest

- -: not analyzed or not applicable

<sup>\*:</sup> For previous historical groundwater elevation and analytical data please refer to Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 6041, Dublin, California, (EMCON, February 26, 1996).

Table 2
Historical Groundwater Elevation Data

	Water				
Well	Level		Depth	Ground-	
Desig-	Field	TOC	to	Water	
nation	Date	Elevation	Water	Elevation	
		ft-MSL	feet	n-MSL	Comments
Station 1	116				
MW-1	02-11-94	335.17	8.72	326.45	
MW-1	10-04-94	335.17	9,66	325.51	
MW-1	11-18-94	335.17	Not surveyed		
MW-1	02-15-95	335.17	6.56	328.61	
MW-1	05-24-95	335.17	6.80	328.37	
MW-1	08-25-95	335.17	8.61	326.56	
MW-1	11-28-95	335,17	9.54	325.63	
MW-1	02-26-96	335.17	Not surveyed		
MW-1	05-23-96	335.17	7.13	328.04	
MW-1	08-23-96	335.17	6.71	328.46	
MW-1	12-02-96	335.17	8.58	326.59	
MW-1	03-21-97	335.17	Not surveyed		
MW-1	08-22-97	335.17	8.80	326.37	•
MW-1	11-21-97	335.17	Not surveyed		
MW-I	02-12-98	335.17	4.40	330.77	
MW-I	07-31-98	335.17	Not surveyed		
MW-2	02-11-94	334.58	8.10	326.48	
MW-2	10-04-94	334.58	9.27	325.31	
MW-2	11-18-94	334.58	Not surveyed		
MW-2	02-15-95	334.58	5.97	328.61	
MW-2	05-24-95	334.58	6.50	328.08	
MW-2	08-25-95	334.58	8.30	326.28	
MW-2	11-28-95	334.58	9.05	325.53	
MW-2	02-26-96	334.58	Not surveyed		
MW-2	05-23-96	334.58	6.95	327.63	
MW-2 MW-2	08-23-96	334.58	6.53	328.05	
MW-2	12-02-96 03-21-97	334.58 334.58	8.40	326.18	
MW-2	08-22-97	334.58	Not surveyed 8.55	224.02	
MW-2	11-21-97	334.58	Not surveyed	326.03	<b>₩ ₩</b>
MW-2	02-12-98	334.58	4.10	330.48	
MW-2	07-31-98	334.58	Not surveyed	330.40	
MW-3	02-11-94	335.13	8.60	326.53	
MW-3	10-04-94	335.13	9.81	325.32	
MW-3	11-18-94	335.13	Not surveyed		
MW-3	02-15-95	335.13	6.61	328.52	
MW-3	05-24-95	335.13	6.83	328.30	
MW-3	08-25-95	335.13	8,84	326.29	
MW-3	11-28-95	335.13	8.57	326.56	
MW-3	02-26-96	335.13	Not surveyed		
MW-3	05-23-96	335.13	7.26	327,87	
MW-3	08-23-96	335.13	6.84	328.29	
MW-3	12-02-96	335.13	8.61	326.52	•
MW-3	03-21-97	335.13	Not surveyed		
MW-3	08-22-97	335.13	8.97	326.16	
MW-3	11-21-97	335.13	Not surveyed		

Table 2
Historical Groundwater Elevation Data

	Water				
Well	Level		Depth	Ground-	
Desig-	Field	TOC	to	Water	
nation	Date	Elevation	Water	Elevation	
		ft-MSL	feet	n-MSL	Comments
MW-3	02-12-98	335.13	4.22	330.91	
MW-3	07-31-98	335.13	Not surveyed		·
AW-4	02-11-94	333.41	6.84	326.57	
AW-4	10-04-94	333.41	8.04	325.37	
AW-4	11-18-94	333.41	6.80	326.61	
AW-4	02-15-95	333,41	4.91	328.50	
AW-4	05-24-95	333.41	5,32	328.09	
AW-4	08-25-95	333.41	7.22	326.19	
AW-4	11-28-95	333.41	7.81	325.60	
AW-4	02-26-96	333.41	Not surveyed		
AW-4	05-23-96	333.41	5.17	328.24	
AW-4	08-23-96	333.41	4.73	328.68	
AW-4	12-02-96	333,41	6,43	326.98	
AW-4	03-21-97	333.41	Not surveyed		
AW-4	08-22-97	333.41	Not surveyed		
AW-4	11-21-97	333.41	Not surveyed		
AW-4	02-12-98	333.41	3.99	329.42	
AW-4	07-31-98	333.41	Not surveyed		
AW-5	02-11-94	334.81	8.20	326.61	
AW-5	10-04-94	334.81	8.70	326.11	
AW-5	11-18-94	334.81	8.20	326.61	
AW-5	02-15-95	334.81	6.65	328.16	
AW-5	05-24-95	334.81	7.27	327.54	
AW-5	08-25-95	334.81	8.52	326.29	
AW-5	11-28-95	334.81	9.32	325.49	
AW-5	02-26-96	334.81	7.13	327.68	
AW-5	05-23-96	334.81	8.58	326.23	
AW-5	08-23-96	334.81	8.18	326.63	
AW-5	12-02-96	334.81	7.90	326.91	
AW-5	03-21-97	334.81	Not surveyed		
AW-5	08-22-97	334.81	10.27	324.54	• •
AW-5	11-21-97	334.81	Not surveyed		
4W-5	02-12-98	334.8 L	7.57	327.24	
<b>4W-</b> 5	07-31-98	334.81	Not surveyed		
4W-6	02-11-94	334.90	8.04	326.86	
AW-6	10-04-94	334.90	9.33	325.57	
AW-6	11-18-94	334.90	7.17	327.73	
AW-6	02-15-95	334.90	6.19	328.71	
AW-6	05-24-95	334.90	6.87	328.03	
AW-6	08-25-95	334.90	8.29	326.61	
4W-6	11-28-95	334.90	9.20	325.70	
AW-6	02-26-96	334.90	5.78	329.12	
AW-6	05-23-96	334.90	6.94	327.96	
AW-6	08-23-96	334.90	6.50	328.40	
4W-6	12-02-96	334.90	8.46	326.44	
AW-6	03-21-97	334.90	Not surveyed		
AW-6	08-22-97	334.90	8.58	326.32	

Table 2
Historical Groundwater Elevation Data

Depth   Ground-Design   Field   TOC   10   Water   Depth   Ground-Design   Field   TOC   10   Water   Elevation   Water   Elevation   Date   Elevation   Water   Elevation   Water   Elevation   Depth   Dep		Water				
Date   Elevation   Water   Elevation   O-MSL   feet   O-MSL   Comments	Well	Level		Depth	Ground-	
AW-6 11-21-97 334.90 Not surveyed AW-6 02-12-98 334.90 Not surveyed AW-6 07-31-98 334.90 Not surveyed  MW-1 02-11-94 334.83 8.62 326.21  MW-1 02-11-94 334.83 9.24 325.59  MW-1 11-21-94 334.83 8.74 326.09  MW-1 10-21-95 334.83 7.91 326.92  MW-1 08-25-95 334.83 7.91 326.92  MW-1 08-25-95 334.83 7.91 326.92  MW-1 11-22-96 334.83 Not surveyed: not scheduled for monitoring  MW-1 02-26-96 334.83 Not surveyed: not scheduled for monitoring  MW-1 05-23-96 334.83 Not surveyed: not scheduled for monitoring  MW-1 05-23-96 334.83 8.23 326.00  MW-1 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-2 02-11-94 336.96 11.04 325.92  MW-2 02-15-95 336.96 10.92 326.04  MW-2 02-15-95 336.96 10.92 326.04  MW-2 02-15-95 336.96 10.02 326.94  MW-2 02-15-95 336.96 10.02 326.94  MW-2 02-15-95 336.96 10.02 326.94  MW-2 02-15-95 336.96 10.02 326.97  MW-2 02-26-96 336.96 10.02 326.94  MW-2 02-26-96 336.96 10.02 326.97  MW-2 02-26-96 336.96 10.02 326.97  MW-2 02-26-96 336.96 10.02 326.97  MW-2 02-26-96 336.96 10.02 326.94  MW-2 02-26-96 336.96 10.02 326.97  MW-2 03-23-96 336.96 Not surveyed: not scheduled for monitoring  MW-2 03-23-96 336.96 10.24 326.72  MW-2 03-23-96 336.96 10.29 326.67  MW-3 03-23-96 336.93 10.68 326.25  MW-3 03-23-96 336.93 10.68 326.25  MW-3 03-25-96 336.93 10.68 326.25  MW-3 03-25-96 336.93 10.68 326.25  MW-3 03-25-96 336.93 10.48 326.35  MW-3 03-25-96 336.93 10.48 326.35  MW-3 03-25-96 336.93 10.48 326.35  MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 03-25-96 336.93 10.04 326.39  MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 03-25-96 336.93 10.00 32.93  MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 03-25-96 336.93 10.00 32.93  MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 03-25-96 336.93 10.00 32.93  MW-3 03-25-96 336.93 10.03 327.57  MW-3 03-25-96 336.93 10.03 327.57  MW-3 03-25-96 336.93 10.03 327.57  MW-3 03-25-96 336.93 10.03 327.55	Desig-	Field	TOC	to	Water	
AW-6 11-21-97 334.90 Not surveyed AW-6 02-12-98 334.90 5.07 329.83  AW-6 07-31-98 334.90 Not surveyed  MW-1 02-11-94 334.83 8.62 326.21  MW-1 02-11-94 334.83 9.24 325.59  MW-1 11-23-94 334.83 8.74 326.09  MW-1 08-25-95 334.83 7.91 326.02  MW-1 08-25-95 334.83 7.91 326.02  MW-1 08-25-95 334.83 8.11 326.72  MW-1 102-26-96 334.83 8.11 326.72  MW-1 02-26-96 334.83 8.23 326.60  MW-1 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-2 02-15-95 336.96 10.02 326.64  MW-2 02-26-96 336.96 10.02 326.67  MW-2 02-26-96 336.96 10.02 326.67  MW-2 02-26-96 336.96 10.02 326.67  MW-2 03-29-96 336.96 10.02 326.67  MW-2 03-29-96 336.96 10.02 326.67  MW-3 03-29-96 336.96 10.29 326.67  WW-1 1-28-95 336.96 10.29 326.67  WW-2 03-29-96 336.96 10.29 326.67  WW-3 03-29-96 336.96 10.29 326.67  WW-3 03-29-96 336.99 Not surveyed: not scheduled for monitoring 10.28  MW-3 02-25-95 336.93 10.68 326.25  MW-3 02-25-95 336.93 10.68 326.25  MW-3 02-25-95 336.93 9.36 327.57  MW-3 02-25-96 336.93 10.04 327.65  MW-3 02-25-96 336.93 9.36 327.57  MW-3 02-25-96 336.93 9.36 327.57  MW-3 02-25-96 336.93 9.36 327.57  MW-3 02-25-96 336.93 9.36 327.66  MW-3 02-25-96 336.93 9.36 327.57  MW-3 02-25-96 336.93 9.36 327.57  MW-3 02-25-96 336.93 9.36 327.57  MW-3 02-25-96 336.93 9.36 327.65  MW-3 02-25-96 336.93 9.36 327.55	nation	Date	Elevation	Water	Elevation	
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AW-6 02-12-98 334.90 5.07 329.83  AW-6 07-31-98 334.90 Not surveyed  MW-1 02-11-94 334.83 8.62 326.21  MW-1 08-25-94 334.83 9.24 325.59  MW-1 11-23-94 334.83 8.74 326.09  MW-1 05-24-95 334.83 7.91 326.72  MW-1 05-24-95 334.83 7.91 326.72  MW-1 02-26-96 334.83 8.11 326.72  MW-1 02-26-96 334.83 8.23 326.60  MW-1 02-26-96 334.83 Not surveyed: not scheduled for monitoring 329.23  MW-1 02-26-96 334.83 8.23 326.60  MW-1 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-2 02-11-94 336.96 11.04 325.92  MW-2 11-23-94 336.96 10.92 326.04  MW-2 01-15-95 336.96 10.92 326.04  MW-2 05-24-95 336.96 10.02 326.94  MW-2 05-25-95 336.96 10.02 326.94  MW-2 11-23-94 336.96 10.02 326.94  MW-2 11-23-94 336.96 10.02 326.94  MW-2 11-23-95 336.96 Not surveyed: not scheduled for monitoring 326.67  MW-2 11-23-95 336.96 10.24 326.72  MW-2 11-23-96 336.96 10.29 326.67  WW-2 11-23-96 336.96 10.29 326.67  WW-2 11-23-96 336.96 10.29 326.67  WW-2 11-23-96 336.99 Not surveyed: not scheduled for monitoring 326.67  WW-2 11-23-96 336.99 Not surveyed: not scheduled for monitoring 326.67  WW-2 11-23-96 336.99 Not surveyed: not scheduled for monitoring 326.67  WW-3 02-26-96 336.99 10.04 329.89  WW-3 02-26-96 336.99 Not surveyed: not scheduled for monitoring 326.67  WW-3 02-26-96 336.99 Not surveyed: not scheduled for monitoring 326.67  WW-3 02-26-96 336.99 Not surveyed: not scheduled for monitoring 326.67  WW-3 02-26-96 336.99 Not surveyed: not scheduled for monitoring 326.67  WW-3 02-26-96 336.99 Not surveyed: not scheduled for monitoring 326.67  WW-3 02-26-96 336.99 Not surveyed: not scheduled for monitoring 326.67  WW-3 02-26-96 336.99 Not survey	AW-6	11-21-97	334.90	Not surveyed		
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MW-1 02-11-94 334.83 8.62 326.21 MW-1 08-25-94 334.83 9.24 325.59 MW-1 11-23-94 334.83 8.74 326.09 MW-1 02-15-95 334.83 6.84 327.99 MW-1 08-25-95 334.83 8.11 326.72 MW-1 108-25-95 334.83 8.11 326.72 MW-1 11-28-95 334.83 8.11 326.72 MW-1 108-25-96 334.83 Not surveyed: not scheduled for monitoring MW-1 08-23-96 334.83 Not surveyed: not scheduled for monitoring MW-1 08-23-96 334.83 Not surveyed: not scheduled for monitoring MW-1 08-23-96 334.83 Not surveyed: not scheduled for monitoring MW-1 08-23-96 334.83 Not surveyed: not scheduled for monitoring MW-1 08-23-96 334.83 Not surveyed: not scheduled for monitoring MW-1 08-23-96 334.83 Not surveyed: not scheduled for monitoring MW-1 08-23-96 336.96 11.04 325.92 MW-2 02-11-94 336.96 11.04 325.92 MW-2 03-25-94 336.96 10.92 326.67 MW-2 03-25-94 336.96 10.92 326.64 MW-2 05-24-95 336.96 10.92 326.94 MW-2 08-25-95 336.96 10.02 326.94 MW-2 08-25-95 336.96 10.02 326.94 MW-2 11-28-95 336.96 Not surveyed: not scheduled for monitoring MW-2 02-26-96 336.96 Not surveyed: not scheduled for monitoring MW-2 03-23-96 336.96 Not surveyed: not scheduled for monitoring MW-2 03-23-96 336.96 Not surveyed: not scheduled for monitoring MW-2 03-23-96 336.96 Not surveyed: not scheduled for monitoring MW-2 03-23-96 336.96 Not surveyed: not scheduled for monitoring MW-2 03-23-96 336.93 10.68 326.25 MW-3 03-25-94 336.93 10.68 326.25 MW-3 03-25-94 336.93 10.68 326.25 MW-3 03-25-94 336.93 10.48 326.45 MW-3 03-25-95 336.93 9.67 327.26 MW-3 03-25-96 336.93 7.04 329.89 MW-3 03-25-96 336.93 10.00 326.93 MW-3 03-25-96 336.93 10.00 326.93 MW-3 03-25-95 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Se	4W-6	07-31-98	334.90	Not surveyed		
MW-1 08-25-94 334.83 9.24 325.59 MW-1 11-21-94 334.83 8.74 326.69 MW-1 02-15-95 334.83 7.91 326.92 MW-1 05-24-95 334.83 7.91 326.92 MW-1 11-28-95 334.83 8.11 326.72 MW-1 11-28-95 334.83 8.11 326.72 MW-1 11-28-96 334.83 8.23 326.60 MW-1 05-23-96 334.83 Not surveyed: not scheduled for monitoring MW-1 05-23-96 334.83 8.23 326.60 MW-1 05-23-96 334.83 8.23 326.60 MW-1 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-2 02-11-94 336.96 11.04 325.92 MW-2 08-25-94 336.96 10.92 326.67 MW-2 02-15-95 336.96 8.90 328.06 MW-2 05-24-95 336.96 10.02 326.94 MW-2 05-23-96 336.96 10.02 326.94 MW-2 05-23-96 336.96 10.24 326.72 MW-2 11-28-95 336.96 10.24 326.72 MW-2 03-25-95 336.96 Not surveyed: not scheduled for monitoring MW-2 02-26-96 336.96 Not surveyed: not scheduled for monitoring MW-2 02-26-96 336.96 10.24 326.72 MW-2 11-28-95 336.96 10.24 326.72 MW-2 03-25-96 336.96 Not surveyed: not scheduled for monitoring MW-2 03-25-96 336.96 10.24 326.72 MW-2 05-23-96 336.96 10.24 326.75 MW-2 05-23-96 336.96 10.29 326.67 MW-2 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-2 03-25-96 336.93 10.48 326.45 MW-3 02-11-94 336.93 10.68 326.25 MW-3 03-25-94 336.93 10.48 326.45 MW-3 03-25-95 336.93 9.36 327.57 MW-3 03-25-95 336.93 9.36 327.57 MW-3 03-25-95 336.93 9.36 327.57 MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring MW-3 03-25-95 336.93 Not surveyed: not scheduled for monitoring MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring MW-3 03-25-96 336.93 10.48 326.45 MW-3 03-25-96 336.93 10.48 326.95 MW-3 03-25-96 336.93 10.68 326.95 MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring MW-3 03-25-96 336.93 Not surveyed: not scheduled for monitoring MW-3 03-29-96 336.93 Not surveyed: not scheduled for monitoring MW-3 03-29-96 336.93 Not surveyed: not scheduled for monitoring MW-	ner Shel	l Station				
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MW-2 08-25-95 336.96 10.24 326.72  MW-2 11-28-95 336.96 Not surveyed: not scheduled for monitoring  MW-2 02-26-96 336.96 7.54 329.42  MW-2 05-23-96 336.96 Not surveyed: not scheduled for monitoring  MW-2 08-23-96 336.96 10.29 326.67  MW-2 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-3 02-11-94 336.93 10.68 326.25  MW-3 08-25-94 336.93 11.30 325.63  MW-3 11-23-94 336.93 10.48 326.45  MW-3 05-24-95 336.93 8.35 328.58  MW-3 05-24-95 336.93 9.67 327.26  MW-3 08-25-95 336.93 9.36 327.57  MW-3 11-28-95 336.93 Not surveyed: not scheduled for monitoring  MW-3 02-26-96 336.93 7.04 329.89  MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-4 08-25-94 337.14 10.71 326.43  MW-4 08-25-94 337.14 10.78 326.36  MW-4 08-25-94 337.14 10.78 326.36  MW-4 02-15-95 337.14 9.49 327.65	1W-2	02-15-95	336.96	8.90	328.06	•
MW-2 11-28-95 336.96 Not surveyed: not scheduled for monitoring MW-2 02-26-96 336.96 7.54 329.42 MW-2 05-23-96 336.96 Not surveyed: not scheduled for monitoring MW-2 08-23-96 336.96 10.29 326.67 MW-2 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-3 02-11-94 336.93 10.68 326.25 MW-3 08-25-94 336.93 11.30 325.63 MW-3 11-23-94 336.93 10.48 326.45 MW-3 02-15-95 336.93 8.35 328.58 MW-3 05-24-95 336.93 9.36 327.57 MW-3 08-25-95 336.93 9.36 327.57 MW-3 11-28-95 336.93 Not surveyed: not scheduled for monitoring MW-3 02-26-96 336.93 Not surveyed: not scheduled for monitoring MW-3 02-26-96 336.93 Not surveyed: not scheduled for monitoring MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	/W-2	05-24-95	336.96	10.02	326.94	
MW-2 02-26-96 336.96 7.54 329.42  MW-2 05-23-96 336.96 Not surveyed: not scheduled for monitoring  MW-2 08-23-96 336.96 10.29 326.67  MW-2 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-3 02-11-94 336.93 10.68 326.25  MW-3 08-25-94 336.93 11.30 325.63  MW-3 11-23-94 336.93 10.48 326.45  MW-3 02-15-95 336.93 8.35 328.58  MW-3 05-24-95 336.93 9.67 327.26  MW-3 08-25-95 336.93 9.36 327.57  MW-3 11-28-95 336.93 Not surveyed: not scheduled for monitoring  MW-3 02-26-96 336.93 7.04 329.89  MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-25-96 336.93 10.00 326.93  MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-4 02-11-94 337.14 10.71 326.43  MW-4 08-25-94 337.14 10.84 326.30  MW-4 11-23-94 337.14 10.78 326.36  MW-4 02-15-95 337.14 9.49 327.65	4W-2	08-25-95	336.96	10.24	326.72	
MW-2 05-23-96 336.96 Not surveyed: not scheduled for monitoring MW-2 08-23-96 336.96 10.29 326.67 MW-2 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-3 02-11-94 336.93 10.68 326.25 MW-3 08-25-94 336.93 11.30 325.63 MW-3 11-23-94 336.93 10.48 326.45 MW-3 02-15-95 336.93 8.35 328.58 MW-3 05-24-95 336.93 9.67 327.26 MW-3 08-25-95 336.93 9.36 327.57 MW-3 11-28-95 336.93 9.36 327.57 MW-3 11-28-95 336.93 Not surveyed: not scheduled for monitoring MW-3 02-26-96 336.93 7.04 329.89 MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	ſW-2	11-28-95	336.96 No	ot surveyed: not sche	duled for monitoring	
MW-2 08-23-96 336.96 10.29 326.67  MW-2 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-3 02-11-94 336.93 10.68 326.25  MW-3 08-25-94 336.93 11.30 325.63  MW-3 11-23-94 336.93 10.48 326.45  MW-3 02-15-95 336.93 8.35 328.58  MW-3 05-24-95 336.93 9.67 327.26  MW-3 08-25-95 336.93 9.36 327.57  MW-3 11-28-95 336.93 9.36 327.57  MW-3 11-28-95 336.93 7.04 329.89  MW-3 02-26-96 336.93 7.04 329.89  MW-3 05-23-96 336.93 10.00 326.93  MW-3 08-23-96 336.93 10.00 326.93  MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-4 02-11-94 337.14 10.71 326.43  MW-4 08-25-94 337.14 10.84 326.30  MW-4 11-23-94 337.14 10.78 326.36  MW-4 02-15-95 337.14 9.49 327.65	/W-2	02-26-96	336.96	7.54	329.42	
MW-2 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-3 02-11-94 336.93 10.68 326.25  MW-3 08-25-94 336.93 11.30 325.63  MW-3 11-23-94 336.93 10.48 326.45  MW-3 02-15-95 336.93 8.35 328.58  MW-3 05-24-95 336.93 9.67 327.26  MW-3 08-25-95 336.93 9.36 327.57  MW-3 11-28-95 336.93 9.36 327.57  MW-3 11-28-95 336.93 7.04 329.89  MW-3 02-26-96 336.93 7.04 329.89  MW-3 05-23-96 336.93 10.00 326.93  MW-3 08-23-96 336.93 10.00 326.93  MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-4 02-11-94 337.14 10.71 326.43  MW-4 08-25-94 337.14 10.84 326.30  MW-4 11-23-94 337.14 10.78 326.36  MW-4 02-15-95 337.14 9.49 327.65	/W-2	05-23-96	336.96 No	ot surveyed: not sche	duled for monitoring	
MW-3 02-11-94 336.93 10.68 326.25 MW-3 08-25-94 336.93 11.30 325.63 MW-3 11-23-94 336.93 10.48 326.45 MW-3 02-15-95 336.93 8.35 328.58 MW-3 05-24-95 336.93 9.67 327.26 MW-3 08-25-95 336.93 9.36 327.57 MW-3 11-28-95 336.93 9.36 327.57 MW-3 11-28-95 336.93 7.04 329.89 MW-3 02-26-96 336.93 7.04 329.89 MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	IW-2	08-23-96		•	-	
MW-3 08-25-94 336.93 11.30 325.63 MW-3 11-23-94 336.93 10.48 326.45 MW-3 02-15-95 336.93 8.35 328.58 MW-3 05-24-95 336.93 9.67 327.26 MW-3 08-25-95 336.93 9.36 327.57 MW-3 11-28-95 336.93 Not surveyed: not scheduled for monitoring MW-3 02-26-96 336.93 7.04 329.89 MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	<b>1W</b> -2	Well not surveyed si	nce the 3rd Quarter	1996, per Blaine Tec	h Services	
MW-3 11-23-94 336.93 10.48 326.45 MW-3 02-15-95 336.93 8.35 328.58 MW-3 05-24-95 336.93 9.67 327.26 MW-3 08-25-95 336.93 9.36 327.57 MW-3 11-28-95 336.93 Not surveyed: not scheduled for monitoring MW-3 02-26-96 336.93 7.04 329.89 MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	1W-3	02-11-94	336.93	10.68	326.25	
MW-3 02-15-95 336.93 8.35 328.58 MW-3 05-24-95 336.93 9.67 327.26 MW-3 08-25-95 336.93 9.36 327.57 MW-3 11-28-95 336.93 Not surveyed: not scheduled for monitoring MW-3 02-26-96 336.93 7.04 329.89 MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	1W-3	08-25-94	336.93	11.30	325.63	<b>~</b>
MW-3 05-24-95 336.93 9.67 327.26 MW-3 08-25-95 336.93 9.36 327.57 MW-3 11-28-95 336.93 Not surveyed: not scheduled for monitoring MW-3 02-26-96 336.93 7.04 329.89 MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	1W-3	11-23-94	336.93	10.48	326.45	
MW-3 08-25-95 336.93 9.36 327.57  MW-3 11-28-95 336.93 Not surveyed: not scheduled for monitoring  MW-3 02-26-96 336.93 7.04 329.89  MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring  MW-3 08-23-96 336.93 10.00 326.93  MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-4 02-11-94 337.14 10.71 326.43  MW-4 08-25-94 337.14 10.84 326.30  MW-4 11-23-94 337.14 10.78 326.36  MW-4 02-15-95 337.14 9.49 327.65	1W-3		336.93	8.35	328.58	
MW-3 11-28-95 336.93 Not surveyed: not scheduled for monitoring MW-3 02-26-96 336.93 7.04 329.89 MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	1W-3	05-24-95	336.93	9.67	327.26	
MW-3 02-26-96 336.93 7.04 329.89 MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	1W-3	08-25-95	336.93	9.36	327.57	
MW-3 05-23-96 336.93 Not surveyed: not scheduled for monitoring MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	1W-3	11-28-95	336.93 No	ot surveyed; not sche	duled for monitoring	
MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	1W-3	02-26-96	336,93	7.04	329.89	
MW-3 08-23-96 336.93 10.00 326.93 MW-3 Well not surveyed since the 3rd Quarter 1996, per Blaine Tech Services  MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	(W-3	05-23-96	336.93 No	st surveyed; not sche	duled for monitoring	
MW-4 02-11-94 337.14 10.71 326.43 MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	<b>1W-3</b>	08-23-96			·	
MW-4 08-25-94 337.14 10.84 326.30 MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	1W-3	Well not surveyed sin	nce the 3rd Quarter	1996, per Blaine Tec	h Services	
MW-4 11-23-94 337.14 10.78 326.36 MW-4 02-15-95 337.14 9.49 327.65	ſW-4	02-11-94	337.14	10.71	326.43	
MW-4 02-15-95 337.14 9.49 327.65	IW-4	08-25-94	337.14	10.84	326.30	
MW-4 02-15-95 337.14 9.49 327.65	1W-4	11-23-94	337.14	10.78	326.36	
	<b>1</b> W-4	02-15-95	337.14	9.49		
	<b>1W-4</b>	05-24-95	337.14	10.73	326.41	
MW-4 08-25-95 337.14 10.22 326.92	1W-4	08-25-95	337.14	10.22	326.92	•
MW-4 11-28-95 337.14 Not surveyed: not scheduled for monitoring	1W∙4	11-28-95	337.14 No	ot surveyed: not sche	and the second s	

Table 2
Historical Groundwater Elevation Data

	Water				
Well	Level		Depth	Ground-	
Desig-	Field	TOC	to	Water	
nation	Date	Elevation	Water	Elevation	
		ft-MSL	feet	ft-MSL	Comments
MW-4	05-23-96	337.14 Not s	urveyed: not sche	duled for monitoring	
MW-4	08-23-96	337.14	9.84	327.30	
MW-4	Well not surveyed si	nce the 3rd Quarter 199	96, per Blaine Tee	h Services	
MW-5	02-11-94	334.96	8.97	325.99	
MW-5	08-25-94	334.96	9.19	325.77	
MW-5	11-23-94	334.96	8.78	326.18	
MW-5	02-15-95	334.96	6.88	328.08	
MW-5	05-24-95	334.96	8.04	326.92	
MW-5	08-25-95	334.96	8.34	326.62	
MW-5	Well removed from s	survey program, per Bla	nine Tech Service	5	
MW-6	02-11-94	335.42	9.02	326.40	
MW-6	08-25-94	335.42	9.79	325.63	
MW-6	11-23-94	335.42	9.20	326.22	
MW-6	02-15-95	335.42	7.36	328.06	
MW-6	05-24-95	335.42	8.80	326.62	
MW-6	08-25-95	335.42	8.50	326.92	
MW-6	11-28-95	335.42 Not se	urveyed; not sche-	tuled for monitoring	
MW-6	02-26-96	335.42	<i>5.</i> 94	329.48	
MW-6	05-23-96	335.42 Not so	arveyed: not sche	luled for monitoring	
MW-6	08-23-96	335.42	. 8.88	326.54	
MW-6	Well not surveyed sir	nce the 3rd Quarter 199	6, per Blaine Tec	n Services	
MW-7	02-11-94	333.23	6.12	327.11	
MW-7	08-25-94	333.23	6.76	326.47	
MW-7	11-23-94	333.23	6.75	326.48	
MW-7	02-15-95	333.23	5.40	327.83	
MW-7	05-24-95	333.23	6.82	326.41	
MW-7	08-25-95	333.23	6.46	326.77	
MW-7	Well removed from s	urvey program, per Bla	ine Tech Services		
MW-8	02-11-94	335.80	8.80	327.00	
/IW-8	08-25-94	335.80	9.52	326.28	
4W-8	11-23-94	335.80	9.08	326.72	
4W-8	02-15-95	335.80	6.67	329.13	
MW-8	05-24-95	335.80	7.56	328.24	
MW-8	08-25-95	335.80	8.60	327.20	
MW-8	Well removed from se	urvey program, per Bla	ine Tech Services		
MW-9	02-11-94	334.57	8.88	325,69	
MW-9	08-25-94	334,57	8.79	325.78	
4W-9	11-23-94	334.57	8.65	325.92	
1W-9	02-15-95	334.57	7.36	327.21	
∕W-9	05-24-95	334.57	7.75	326.82	
AW-9	08-25-95	334.57	7.90	326,67	
AW-9	Well removed from st	urvey program, per Bla	ine Tech Services		
(W-11	02-11-94	334.20	8.21	325.99	
(W-11	08-25-94				

Table 2
Historical Groundwater Elevation Data

	Water				
Well	Level		Depth	Ground-	
Desig-	Field	TOC	10	Water	
nation	Date	Elevation	Water	Elevation	
		R-MSL	feet	n-MSL	Comments
MW-11	11 23 04	224.22			
MW-11	11-23-94 02-15-95	334.20	8.27	325,93	
MW-11	05-24-95	334.20	6.46	327.74	
MW-11	08-25-95	334.20	7.69	326.51	
MW-11		334.20	7.70	326.50	
M W - I L	Well removed from :	survey program, per Bl	ame tech Service	S	
MW-12	02-11-94	332.53	7.18	325.35	
MW-12	08-25-94	332.53	7.24	325.29	
MW-12	11-23-94	332.53	7.16	325.37	•
MW-12	02-15-95	332.53	5.1 <b>6</b>	327.37	
MW-12	05-24-95	332.53	6.95	325.58	
MW-12	08-25-95	332.53	5.63	326.90	
MW-12	Well removed from s	survey program, per Bl			
MW-13	02-11-94	335,64	9.12	326,52	
MW-13	08-25-94	335.64	9.12		
MW-13	11-23-94	335.64		326.32	
MW-13	02-15-95	335.64	9.37 8.42	326.27	
MW-13	05-24-95	335.64		327.22	
MW-13	08-25-95	335.64	9.90	325.74	
MW-13	11-28-95		8.32	327.32	
MW-13	02-26-96	335.64 Not st		duled for monitoring	
MW-13	05-23-96		5.76	329.88	
MW-13	08-23-96	335.64 Not st	-	duled for monitoring	
MW-13		nce the 3rd Quarter 199	8.66	326.98	
1.2 15	won not surveyed an	ice the sta Quarter tyy	u, per Biaine Tec	n Services	
RW-1	08-25-94	336.19	10.56	325.63	
RW-1	11-23-94	336.19	10.07	326.12	
RW-1	02-15-95	336.19	8.20	327.99	•
RW-1	05-24-95	336.19	9.66	326.53	
RW-1	08-25-95	336.19	9.37	326.82	
RW-1	Well removed from s	urvey program, per Bla	ine Tech Services	i	<b>.</b> _
NOCAL S	<u>Station</u>				
54177.4	00.11.01	***	_		
MW-1	02-11-94	336.07	9.72	326.35	
MW-1	05-17-94	336.07	9.26	326.81	
MW-1	08-25-94	336.07	10.58	325,49	
MW-1	11-18-94	336.07	9.69	326.38	
MW-1	02-17-95	336.07	7.80	328.27	
MW-1	05-24-95	336.07	8,98	327.09	
MW-1	08-25-95	336.07	9.68	326.39	
MW-1	11-28-95	336.07	10.45	325.62	
MW-1	02-26-96	336.07	6.45	329.62	
MW-1	05-23-96			uled for monitoring	
MW-1	08-23-96			uled for monitoring	
MW-1	11-22-96			uled for monitoring	
MW-1	02-12-97			uled for monitoring	
MW-1	11-21-97	336.07 Not su	rveyed: Site close	d, well destroyed	

Table 2
Historical Groundwater Elevation Data

	Water				
Well	Level		Depth	Ground-	•
Desig-	Field	TOC	to	Water	
nation	Date	Elevation	Water	Elevation	
		ft-MSL	feet	ft-MSL	Comments
MW-2	02-11-94	336.78	9.85	326.93	
MW-2	05-17-94	336.78	9.31	327.47	
MW-2	08-25-94	336.78	10.75	326.03	
MW-2	11-18- <del>9</del> 4	336.78	9.95	326.83	
MW-2	02-17-95	336.78	7.58	329.20	
MW-2	05-24-95	336.78	8.33	328.45	
MW-2	08-25-95	336.78	9.76	327.02	
MW-2	11-28-95	336.78	10.65	326.13	
MW-2	02-26-96	336.78	6,39	330.39	
MW-2	05-23-96	336.78 Not s	urveyed; not sche	duled for monitoring	
MW-2	08-23-96	336,78 Not s	urveyed: not sche	duled for monitoring	
MW-2	11-22-96	336,78 Not s	urveyed: not sche	duled for monitoring	
MW-2	02-12-97	336.78 Not s	urveyed: not sche	duled for monitoring	
MW-2	11-21-97	336.78 Not st	urveyed: Site clos	ed, well destroyed	
MW-3	02-11-94	336.98	10.01	326.97	
MW-3	05-17-94	336.98	9.49	327.49	
MW-3	08-25-94	336,98	10.93	326.05	
MW-3	L1-18-94	336.98	10.15	326.83	
MW-3	02-17-95	336.98	7.62	329.36	
MW-3	05-24-95	336.98	8.26	328.72	
MW-3	08-25-95	336.98	10.03	326.95	
MW-3	11-28-95	336.98	10.85	326.13	
MW-3	02-26-96	336.98	6.39	330.59	
MW-3	05-23-96	336.98 Not su	irveyed: not sche	duled for monitoring	
MW-3	08-23-96	336,98 Not su	irveyed: not sche	duled for monitoring	
MW-3	11-22-96			duled for monitoring	
MW-3	02-12-97			duled for monitoring	
MW-3	11-21-97	336.98 Not su	rveyed: Site clos	ed, well destroyed	
MW-4	02-11-94	336.43	10.10	326,33	
Ŵ₩-4	05-17-94	336.43	9.63	326.80	
MW-4	08-25-94	336.43	10.94	325.49	<b>-</b> -
MW-4 MW-4	11-18-94	336.43	10.10	326.33	• .
иw-4 иW-4	02-17-95	336.43	8.12	328.31	
41W-4 4W-4	05-24-95 08-25-05	336.43	8.68	327.75	
v1W-4 v1W-4	08-25-95 11-28-95	336.43	10.08	326.35	
v1W-4 v1W-4	02-26-96	336.43 336.43	10.81	325.62	
лw-4 лw-4	05-23-96		6.75	329.68	
4W-4	08-23-96			luled for monitoring	•
4W-4	11-22-96			luled for monitoring	
4W-4	02-12-97			tuted for monitoring tuted for monitoring	
4W-4	11-21-97			ed, well destroyed	
1W-5	02-11-94	335,96	10.08	325.88	
4W-5	05-17-94	335.96	9.24	326.72	
4W-5	08-25-94	335.96	10.43	325.53	
AW-5	l1-18-94	335.96	10.49	325.87	
4W-5	02-17-95	335.96	7.76	J2-J-14 1	

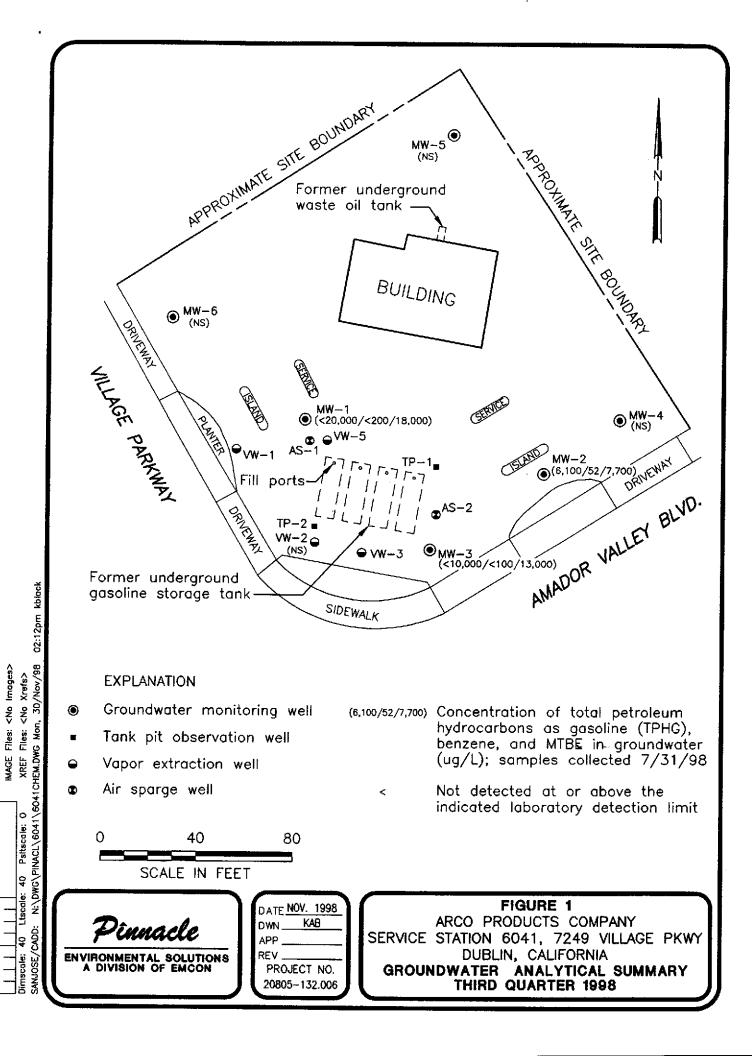
# Table 2 Historical Groundwater Elevation Data

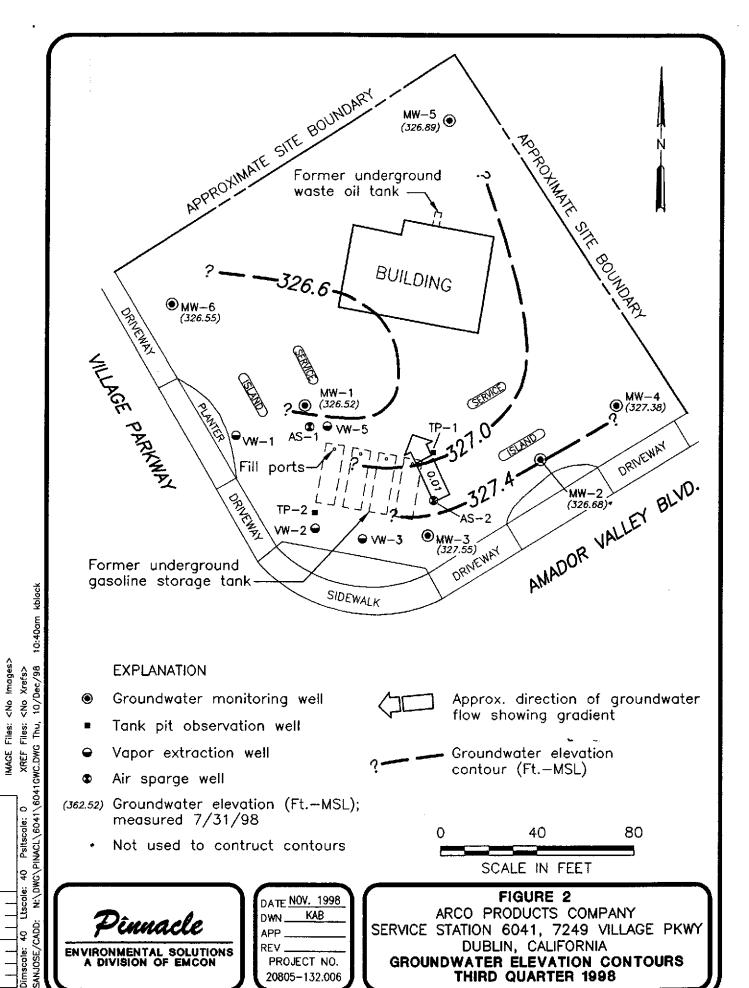
# BP Station 1116, 7197 Village Parkway Former Shell Station, 7194 Amador Valley Boulevard UNOCAL Station, 7375 Amador Valley Boulevard

Well Desig- nation	Water Level Field Date	TOC Elevation	Depth to Water	Ground- Water Elevation	
		ft-MSL	feet	ñ-MSL	Comments
MW-5	05-24-95	335.96	7.98	327.98	
MW-5	08-25-95	335.96	9.57	326.39	
MW-5	11-28-95	335.96	10.33	325.63	
MW-5	02-26-96	335.96	7.15	328.81	
MW-5	05-23-96	335.96	8.65	327.31	
MW-5	08-23-96	335.96	10.02	325.94	•
MW-5	11-22-96	335.96	10.16	325.80	
MW-5	02-12-97	335.96	7.18	328.78	
MW-5	11-21-97	335.96 Not a	uzveved: Site clos	ed, well destroyed	

TOC: top of casing

ft-MSL: elevation in feet, relative to mean sea level





# APPENDIX A SAMPLING AND ANALYSIS PROCEDURES

## **APPENDIX A**

# SAMPLING AND ANALYSIS PROCEDURES

The sampling and analysis procedures for water quality monitoring programs are contained in this appendix. The procedures provided for consistent and reproducible sampling methods, proper application of analytical methods, and accurate and precise analytical results. Finally, these procedures provided guidelines so that the overall objectives of the monitoring program were achieved.

The following documents have been used as guidelines for developing these procedures:

- Procedures Manual for Groundwater Monitoring at Solid Waste Disposal Facilities, Environmental Protection Agency (EPA)-530/SW-611, August 1977
- Resource Conservation and Recovery Act (RCRA) Groundwater Monitoring Technical Enforcement Guidance Document, Office of Solid Waste and Emergency Response (OSWER) 9950.1, September 1986
- Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA SW-846,
   3rd edition, November 1986
- Methods for Organic Chemical Analysis of Municipal and Industrial Waste Water, EPA-600/4-82-057, July 1982
- Methods for Organic Chemical Analysis of Water and Wastes, EPA-600/4-79-020, revised March 1983
- Leaking Underground Fuel Tank (LUFT) Field Manual, California State Water Resources Control Board, revised October 1989

# **Sample Collection**

Sample collection procedures include equipment cleaning, water level and total well depth measurements, and well purging and sampling.

# **Equipment Cleaning**

Before the sampling event was started, equipment that was used to sample groundwater was disassembled and cleaned with detergent water and then rinsed with deionized water. During field sampling, equipment surfaces that were placed in the well or came into contact with groundwater during field sampling were steam cleaned with deionized water before the next well was purged or sampled.

# Water Level, Floating Hydrocarbon, and Total Well Depth Measurements

Before purging and sampling occurred, the depth to water, floating hydrocarbon thickness, and total well depth were measured using an oil/water interface measuring system. The oil/water interface measuring system consists of a probe that emits a continuous audible tone when immersed in a nonconductive fluid, such as oil or gasoline, and an intermittent tone when immersed in a conductive fluid, such as water. The floating hydrocarbon thickness and water level were measured by lowering the probe into the well. Liquid levels were recorded relative to the tone emitted at the groundwater surface. The sonic probe was decontaminated by being rinsed with deionized water or steam cleaned after each use. A bottom-filling, clear Teflon® bailer was used to verify floating hydrocarbon thickness measurements of less than 0.02 foot. Alternatively, an electric sounder and a bottom-filling Teflon bailer may have been used to record floating hydrocarbon thickness and depth to water.

The electric sounder is a transistorized instrument that uses a reel-mounted, two-conductor, coaxial cable that connects the control panel to the sensor. Cable markings are stamped at 1-foot intervals. The water level was measured by lowering the sensor into the monitoring well. A low-current circuit was completed when the sensor contacted the water, which served as an electrolyte. The current was amplified and fed into an indicator light and audible buzzer, signaling when water had been contacted. A sensitivity control compensated for highly saline or conductive water. The electric sounder was decontaminated by being rinsed with deionized water after each use. The bailer was lowered to a point just below the liquid level, retrieved, and observed for floating hydrocarbon.

Liquid measurements were recorded to the nearest 0.01 foot on the depth to water/floating product survey form. The groundwater elevation at each monitoring well was calculated by subtracting the measured depth to water from the surveyed elevation of the top of the well casing. (Every attempt was made to measure depth to water for all wells on the same day.) Total well depth was then measured by lowering the sensor to the bottom of the well. Total well depth, used to calculate purge volumes and to determine whether the well screen was partially obstructed by silt, was recorded to the nearest 0.1 foot on the depth to water/floating product survey form.

# **Well Purging**

If the depth to groundwater was above the top of screens of the monitoring wells, then the wells were purged. Before sampling occurred, a polyvinyl chloride (PVC) bailer, centrifugal pump, low-flow submersible pump, or Teflon bailer was used to purge standing water in the casing and gravel pack from the monitoring well. Monitoring wells were purged according to the protocol presented in Figure A-1. In most monitoring wells, the amount of water purged before sampling was greater than or equal to three casing volumes. Some monitoring wells were expected to be evacuated to dryness after removing fewer than three casing volumes. These low-yield monitoring wells were allowed to recharge for up to 24 hours. Samples were obtained as soon as the monitoring wells recharged to a level sufficient for sample collection. If insufficient water recharged after 24 hours, the monitoring well was recorded as dry for the sampling event.

Groundwater purged from the monitoring wells was transported in a 500-gallon water trailer, 55-gallon drum, or a 325-gallon truck-mounted tank to EMCON's San Jose or Sacramento office location for temporary storage. EMCON arranged for transport and disposal of the purged groundwater through Integrated Waste Stream Management, Inc.

Field measurements of pH, specific conductance, and temperature were recorded in a waterproof field logbook. Figure A-2 shows an example of the water sample field data sheet on which field data are recorded. Field data sheets were reviewed for completeness by the sampling coordinator after the sampling event was completed.

The pH, specific conductance, and temperature meter were calibrated each day before field activities were begun. The calibration was checked once each day to verify meter performance. Field meter calibrations were recorded on the water sample field data sheet.

# Well Sampling

A Teflon bailer was the only equipment acceptable for well sampling. When samples for volatile organic analysis were being collected, the flow of groundwater from the bailer was regulated to minimize turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa were used in sampling for volatile organics. These bottles were filled completely to prevent air from remaining in the bottle. A positive meniscus formed when the bottle was completely full. A convex Teflon septum was placed over the positive meniscus to eliminate air. After the bottle was capped, it was inverted and tapped to verify that it contained no air bubbles. The sample containers for other parameters were filled, filtered as required, and capped.

When required, dissolved concentrations of metals were determined using appropriate field filtration techniques. The sample was filtered by emptying the contents of the Teflon bailer into a pressure transfer vessel. A disposable 0.45-micron acrylic copolymer filter was threaded onto the transfer vessel at the discharge point, and the vessel was sealed. Pressure was applied to the vessel with a hand pump and the filtrate directed into the appropriate containers. Each filter was used once and discarded.

# Sample Preservation and Handling

The following section specifies sample containers, preservation methods, and sample handling procedures.

## **Sample Containers and Preservation**

Sample containers vary with each type of analytical parameter. Container types and materials were selected to be nonreactive with the particular analytical parameter tested.

## Sample Handling

Sample containers were labeled immediately prior to sample collection. Samples were kept cool with cold packs until received by the laboratory. At the time of sampling, each sample was logged on an ARCO chain-of-custody record that accompanied the sample to the laboratory.

Samples that required overnight storage prior to shipping to the laboratory were kept cool (4° C) in a refrigerator. The refrigerator was kept in a warehouse, which was locked when not occupied by an EMCON employee. A sample/refrigerator log was kept to record the date and time that samples were placed into and removed from the refrigerator.

Samples were transferred from EMCON to an ARCO-approved laboratory by courier or taken directly to the laboratory by the environmental sampler. Sample shipments from EMCON to laboratories performing the selected analyses routinely occurred within 24 hours of sample collection.

# **Sample Documentation**

The following procedures were used during sampling and analysis to provide chain-of-custody control during sample handling from collection through storage. Sample documentation included the use of the following:

- Water sample field data sheets to document sampling activities in the field
- Labels to identify individual samples
- Chain-of-custody record sheets for documenting possession and transfer of samples
- Laboratory analysis request sheets for documenting analyses to be performed

## Field Logbook

In the field, the sampler recorded the following information on the water sample field data sheet (see Figure A-2) for each sample collected:

- Project number
- Client's name
- Location
- · Name of sampler
- Date and time
- Well accessibility and integrity
- Pertinent well data (e.g., casing diameter, depth to water, well depth)

- · Calculated and actual purge volumes
- · Purging equipment used
- Sampling equipment used
- Appearance of each sample (e.g., color, turbidity, sediment)
- Results of field analyses (temperature, pH, specific conductance)
- · General comments

The water sample field data sheet was signed by the sampler and reviewed by the sampling coordinator.

#### Labels

Sample labels contained the following information:

- Project number
- Sample number (i.e., well designation)
- Sample depth

- Sampler's initials
- Date and time of collection
- Type of preservation used (if any)

# Sampling and Analysis Chain-of-Custody Record

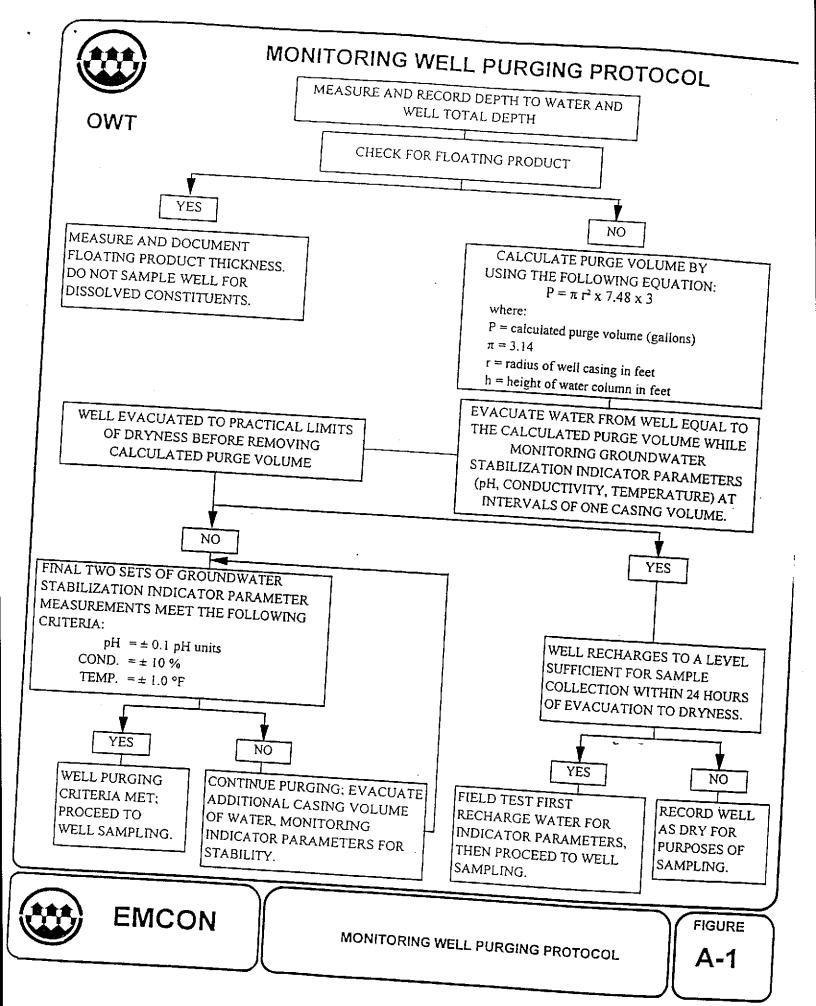
The ARCO chain-of-custody record initiated at the time of sampling contained, at a minimum, the sample designation (including the depth at which the sample was collected), sample type, analytical request, date of sampling, and the name of the sampler. The record sheet was signed, timed, and dated by the sampler when transferring the samples. The number of custodians in the chain of possession was minimized. A copy of the ARCO chain-of-custody record was returned to EMCON with the analytical results.

# **Groundwater Sampling and Analysis Request Form**

A groundwater sampling and analysis request form (see Figure A-3) was used to communicate to the environmental sampler the requirements of the monitoring event. At a minimum, the groundwater sampling and analysis request form included the following information:

- Date scheduled
- Site-specific instructions
- Specific analytical parameters

- Well number
- Well specifications (expected total depth, depth of water, and product thickness)



	WA.	TER SAM	PLE FIEL	D DATA S	HEET	Rev. 5/9
	PROJECT NO : PURGED BY :			SAMPLE IC	):	
OWT	SAMPLED BY:			LOCATION	l :	<del></del>
TYPE: Gro				Leachate	Other	
CASING DIAN	IETER (inches):	23	4	4.5	6 Othe	er
DEPT	H OF WELL (fee	t):t):	CAL	DLUME IN CASING CULATED PURGE UAL PURGE VOL	E (gal.) :	
DATE DATE	PURGED :			END PURGE : _ MPLING TIME : _		
TIME	VOLUME	pH (units)	E.C.		TURBIDITY	TIME
OTHER:			ODOR:			
HELD QC SAM	IPLES COLLECT	TED AT THIS WE	ILL ( i.e. FB-1, XD	UP-1) : _	(COBALT 0-100)	•
PURC	SING EQUIPMEN	<u>1T</u>			EQUIPMENT	
Well Wiza	al Pump ble Pump	Bailer (Teflon) Bailer (PVC) Bailer (Stainless Dedicated			Dedica	Stainless Steet) rsible Pump
LL INTEGRIT						-
MARKS:	<u> </u>					
E.C., Temp. Met	er Calibration:Date	:	Time:	Meter	Serial No.:	
perature °F	<u> </u>	pH 7/		1	pH 4	1
GNATURE:			REVIEW	ED BY:	PAGE	OF



WATER SAMPLE FIELD DATA SHEET

FIGURE A-2



# EMCON - SACRAMENTO GROUNDWATER SAMPLING AND ANALYSIS REQUEST FORM

PROJECT NAME:

			_			
$\mathcal{C}(\Gamma)$	ΙΕDι	11		D 4	$\neg$	_
$\mathcal{I} \cup \mathcal{I} \cap$	にしし	11.	.r.i.i.	134	1 -	

PECIAL INS	STRUCTIONS /	CONSIDERA	TIONS:		Project Authorization: Authorization: EMCON Project No.: OWT Project No.: Task Code: Originals To: cc:	
						Well Lock Number (s)
_ СНЕСК ВО	X TO AUTHOR	UZE DATA EN	NTRY	Site Contact:	Name	
Well Number or	Casing Diameter	Casing Length	Depth to Water	. ANAY	SES REQUESTED	Phone #
Source	(inches)	(feet)	(feet)			
	(inches)	(feet)	(feet)			
	(inches)	(feet)	(feet)			
	(inches)	(feet)	(feet)			
	(inches)	(feet)	(feet)			
	(inches)	(feet)	(feet)			



**EMCON** 

SAMPLING AND ANALYSIS REQUEST FORM

FIGURE

**A-3** 

# **APPENDIX B**

# CERTIFIED ANALYTICAL REPORTS, AND CHAIN OF CUSTODY DOCUMENTATION



August 18, 1998

Service Request No.: S9802046

Glen Vanderveen
PINNACLE
144 A Mayhew Wy.
Walnut Creek, CA 94596

RE: 20805-132.006/22312.00/RAT8/6041 DUBLIN

Dear Mr. Vanderveen:

The following pages contain analytical results for sample(s) received by the laboratory on August 5, 1998. Results of sample analyses are followed by Appendix A which contains sample custody documentation and quality assurance deliverables requested for this project. The work requested has been assigned the Service Request No. listed above. To help expedite our service, please refer to this number when contacting the laboratory.

Analytical results were produced by procedures consistent with Columbia Analytical Services' (CAS) Quality Assurance Manual (with any deviations noted). Signature of this CAS Analytical Report below confirms that pages 2 through 10, following, have been thoroughly reviewed and approved for release in accord with CAS Standard Operating Procedure ADM-DatRev3.

Please feel welcome to contact me should you have questions or further needs.

Sincerely.

Steven L. Green

**Project Chemist** 

Bernadette I. Cox for

Greg Anderson

Regional QA Coordinator | F

BECEIVED

AUG 2 1 1998

RY: W

Acronyms

A2LA American Association for Laboratory Accreditation

ASTM American Society for Testing and Materials

BOD Biochemical Oxygen Demand

BTEX Benzene, Toluene, Ethylbenzene, Xylenes

CAM California Assessment Metals
CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit
COD Chemical Oxygen Demand

DEC Department of Environmental Conservation
DEQ Department of Environmental Quality
DHS Department of Health Services
DLCS Duplicate Laboratory Control Sample

DMS Duplicate Matrix Spike
DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

IC Ion Chromatography

Initial Calibration Blank sample

ICP Inductively Coupled Plasma atomic emission spectrometry

ICV Initial Calibration Verification sample

J Estimated concentration. The value is less than the MRL, but greater than or equal to

the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.

LCS Laboratory Control Sample
LUFT Leaking Underground Fuel Tank

M Modified

MBAS Methylene Blue Active Substances

MCL Maximum Contaminant Level. The highest permissible concentration of a

substance allowed in drinking water as established by the U. S. EPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

MS Matrix Spike

MTBE Methyl tert-Butyl Ether
NA Not Applicable

NAN Not Analyzed NC Not Calculated

NCASI National Council of the paper industry for Air and Stream Improvement
ND Not Detected at or above the method reporting/detection limit (MRL/MDL)

NIOSH National Institute for Occupational Safety and Health

NTU Nephelometric Turbidity Units

ppb Parts Per Billion ppm Parts Per Million

PQL Practical Quantitation Limit

QA/QC Quality Assurance/Quality Control

RCRA Resource Conservation and Recovery Act

RPD Relative Percent Difference
SIM Selected Ion Monitoring

SM Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992

STLC Solubility Threshold Limit Concentration

SW Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,

3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.

TCLP Toxicity Characteristic Leaching Procedure

TDS Total Dissolved Solids

TPH Total Petroleum Hydrocarbons

tr Trace level. The concentration of an analyte that is less than the PQL but greater than or equal

to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding.

TRPH Total Recoverable Petroleum Hydrocarbons

TSS Total Suspended Solids

TTLC Total Threshold Limit Concentration

VOA Volatile Organic Analyte(s) ACRONLST.DOC 7/14/95

#### Analytical Report

Client:

ARCO Products Company

Project: Sample Matrix: 20805-132.006/22312.00/RAT8/6041 DUBLIN

Water

Service Request: \$9802046

Date Collected: 7/31/98
Date Received: 8/5/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

MW-2(13)

Lab Code:

S9802046-001

Test Notes:

Units: ug/L (ppb)

Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	100	NA	8/13/98	6100	
Benzene	EPA 5030	8020	0.5	100	NA	8/13/98	52	
Toluene	EPA 5030	8020	0.5	100	NA	8/13/98	220	
Ethylbenzene	EPA 5030	8020	0.5	100	NA	8/13/98	110	
Xylenes, Total	EPA 5030	8020	0.5	100	NA	8/13/98	1100	
Methyl tert-Butyl Ether	EPA 5030	8020	3	100	NA	8/13/98	7700	

#### Analytical Report

Client:

**ARCO Products Company** 

Project:

20805-132.006/22312.00/RAT8/6041 DUBLIN

Sample Matrix:

Water

Service Request: \$9802046

Date Collected: 7/31/98

Date Received: 8/5/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

MW-1(16)

Lab Code:

S9802046-002

EPA 5030

EPA 5030

Units: ug/L (ppb)
Basis: NA

Test Notes:

Xylenes, Total

Methyl tert-Butyl Ether

Prep Analysis **Dilution** Date Date Result Analyte Method Method MRL Factor Extracted Analyzed Result Notes TPH as Gasoline EPA 5030 CA/LUFT 50 400 NA 8/13/98 <20000 C1 Benzene EPA 5030 8020 0.5 400 NA 8/13/98 <200 C1 Toluene EPA 5030 8020 0.5 400 NA 8/13/98 <200 C1 Ethylbenzene EPA 5030 8020 0.5 400 NA <200 8/13/98 C1

0.5

3

400

400

NA

NA

8/13/98

8/13/98

<200

18000

C1

8020

8020

#### Analytical Report

Client:

ARCO Products Company

Project:

20805-132.006/22312.00/RAT8/6041 DUBLIN

Sample Matrix:

Water

Service Request: \$9802046

Date Collected: 7/31/98
Date Received: 8/5/98

BTEX, MTBE and TPH as Gasoline

Sample Name:

MW-3(13)

Lab Code:

S9802046-003

Units: ug/L (ppb)
Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	200	NA	8/13/98	<10000	Cl
Benzene	EPA 5030	8020	0.5	200	NA	8/13/98	<100	CI
Toluene	EPA 5030	8020	0.5	200	NA	8/13/98	<100	CI
Ethylbenzene	EPA 5030	8020	0.5	200	NA	8/13/98	<100	C1
Xylenes, Total	EPA 5030	8020	0.5	200	NA	8/13/98	<100	C1
Methyl tert-Butyl Ether	EPA 5030	8020	3	200	NA	8/13/98	13000	

C1

### Analytical Report

Client:

ARCO Products Company

Project:

20805-132.006/22312.00/RAT8/6041 DUBLIN

Sample Matrix:

Water

Service Request: \$9802046

Date Collected: NA

Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name:

Method Blank

Lab Code:

S980812-WB1

Test Notes:

Units: ug/L (ppb) Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
TPH as Gasoline	EPA 5030	CA/LUFT	50	1	NA	8/12/98	ND	
Benzene	EPA 5030	8020	0.5	1	NA	8/12/98	ND	
Toluene	EPA 5030	8020	0.5	1	NA	8/12/98	ND	
Ethylbenzene	EPA 5030	8020	0.5	1	NA	8/12/98	ND	
Xylenes, Total	EPA 5030	8020	0.5	1	NA	8/12/98	ND	
Methyl tert-Butyl Ether	EPA 5030	8020	3	1	NA	8/12/98	ND	

## QA/QC Report

Client:

ARCO Products Company

Service Request: S9802046

Project: Sample Matrix: 20805-132.006/22312.00/RAT8/6041 DUBLIN Water

Date Collected: NA

Date Received: NA

Date Extracted: NA Date Analyzed: NA

Surrogate Recovery Summary BTEX, MTBE and TPH as Gasoline

Prep Method:

EPA 5030

Units: PERCENT

Analysis Method: 8020

**CA/LUFT** 

Basis: NA

Sample Name	Lab Code	Test Notes	Percent 4-Bromofluorobenzene	Recovery a,a,a-Trifluorotoluene
MW-2(13)	S9802046-001		99	99
MW-1(16)	S9802046-002		101	87
MW-3(13)	S9802046-003		101	87
BATCH QC	S9802045-002MS		96	96
BATCH QC	S9802045-002DMS		94	97
Method Blank	S980812-WB1		101	89

CAS Acceptance Limits:

69-116

69-116

### QA/QC Report

Client:

ARCO Products Company

Project:

Sample Matrix Water

20805-132.006/22312.00/RAT8/6041 DUBLIN

Service Request: \$9802046 Date Collected: NA

Date Received: NA

Date Extracted: NA

Date Analyzed: 8/13/98

Matrix Spike/Duplicate Matrix Spike Summary

TPH as Gasoline

Sample Name: BATCH QC

Units: ug/L (ppb)

Lab Code:

S9802045-002MS,

S9802045-002DMS

Basis: NA

Test Notes:

Percent Recovery

											CAS	Relative	
	Prep	Analysis		Spike	Level	Sample	Spike	Result			Acceptance	Percent	Result
Analyte	Method	Method	MRL	MS	DMS	Result	MS	DMS	MS	DMS	Limits	Difference	Notes
Gasoline	EPA 5030	CA/LUFT	50	250	250	ND	250	230	100	92	75-135	8	

#### QA/QC Report

Client:

**ARCO Products Company** 

Project:

20805-132.006/22312.00/RAT8/6041 DUBLIN

Service Request: \$9802046

Date Analyzed: 8/12/98

Initial Calibration Verification (ICV) Summary BTEX, MTBE and TPH as Gasoline

Sample Name:

ICV

Units: ug/L (ppb)

Lab Code:

ICV1

Basis: NA

Test Notes:

TOM C

ICV Source:							
					Percent Recovery		
	Prep	Analysis	True		Acceptance	Percent	Result
Analyte	Method	Method	Value	Result	Limits	Recovery	Notes
TPH as Gasoline	EPA 5030	CA/LUFT	250	230	90-110	92	
Benzene	EPA 5030	8020	25	26	85-115	104	
Toluene	EPA 5030	8020	25	24	85-115	96	
Ethylbenzene	EPA 5030	8020	25	24	85-115	96	
Xylenes, Total	EPA 5030	8020	75	81	85-115	108	
Methyl tert-Butyl Ether	EPA 5030	8020	25	25	85-115	100	

ARC	Division	n of Atla	intic/Ric	hfield C	ompany			Т	ask Order	No.22	2312	0	0		5	UE	30.	20	40	9	(	Chai	n of Custod	у
ARCO Fa		60	41		City (Facility	Duh	lin			Proj (Coi	ect ma nsultar	anager nt)	Gil	en	Va	nd	er	ve	er.			Chai 7576	Laboratory Name	$\neg$
ARCO en		Pau	150	IDDI			Tele (AR	phone no. CO)		Tele (Co	phone nsultar	no (4	08)	452	3-73	00	Fax (Con	no. sultan	:(40	8)4	37-4	7576	C/4 S Contract Number	ᆜ
Consultar	nt name	EMO	SON	/ -				Add (Co	ress nsultant)/	121 K	Pin	CWC	000	AK	ve	So	in h	7 </td <td>&gt; /</td> <td>74</td> <td>90</td> <td>131</td> <td></td> <td></td>	> /	74	90	131		
				Matrix		Prese	ervation		<del></del>		2	1						emi VoAC	1 6010/7000 J	J 207421C			Method of shipment Sampler	-
Sample I.D	Lab no.	Container no	Soil	Water	Other	Ice	Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEXTPH in a EPA M602/4020	TPH Modified 8015 Gas () Diesel ()	Oifand Grease 413.1 ☐ 413.2 ☐	TPH EPA418.1/SM 5	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP S. MetalsO VOAO	CAM Metals EPA TTLCG STLC	Lead Org/DHSCI Lead EPA 7420/7421CI			Sampler Will aeliver  Special Detection	
MW-Z	[3]	2		×		.X	HCL	7/3:198	1467		×												Limit/reporting	
MW-10	16)	2	2	×		×	1+CL	]	1448		X												Lowest	
MW-3(	13')	2	3	×		×	HCL	1	1537		X												Possible	
																							Special QAQC AS Normal	
																							Remarks RAT8 2-40m1/40 VOAs	-
																	-						7-40m1 HC	2
								,															VOAs	
																							#20805-132.0 Lab Number 5980 2044	DQ6
							_																5980204G	
		-																	·				Turnaround Time:	
							r							_	_				<u></u> -		$\dashv$		Priority Rush 1 Business Day	_
							·																Rush 2 Business Days	
Condition	of samp	ple:										recei	ved:								-		Expedited 5 Business Days	_
Relinguish Relinguish	<u> </u>	ampler آگریم	rki				Date Date	28	Time Time		122	//	45	7).		5)	13/	97		10%	10 14	er.	Standard	
Relinguisl	-						Date		:	Recei	-		atory			٦	Date	-		Time		· · · · · · · · · · · · · · · · · · ·	RII/b3	<b>≥</b> <
Distribution	n: White	Copy -	Labora	tory: Ca	anary Co	DV - AFIC	CO Environ	mental Engi	neering: Pi	ink Cor	ov – C	onsulta	ent							·			DUE! elia	—

DUE! E/18

# APPENDIX C FIELD DATA SHEETS

# FIELD REPORT DEPTH TO WATER/FLOATING PRODUCT SURVEY

PROJECT #: 21775-244.003 STATION ADDRESS: 7249 Village Parkway, Dublin DATE: 7/31/98

ARCO STATION # : 6041 FIELD TECHNICIAN : Brice Hendricks DAY : Friday

		Well	Well		Ì	Туре	FIRST	SECOND	DEPTH TO	FLOATING	WELL	
DTW	WELL	Вох	Lid	Gasket	Lock	Of Well	DEPTH TO	DEPTH TO	FLOATING	PRODUCT	TOTAL	
Order	ID	Seal	Secure	Present	Number	Cap	WATER	WATER	PRODUCT	THICKNESS	DEPTH	COMMENTS
							(feet)	(feet)	(feet)	(feet)	(feet)	
1	MW-4	~	15/16	YES	ARCO	LWC	6.84	6.84	ND	-	14.6	
2	MW-5	1	15/16	YES	ARCO	LWC	8.98	8.98	i		17.5	
3	MW-6	~	15/16	YES	ARCO	LWC	4.29	9.29			15.9	Crushed 4" cap
4	VW-2	~	15/16	429	Arco	Live	701	<b>9</b> 7.01	i		9.3	,
5	MW-2	$\sqrt{}$	15/16	YES	ARCO	LWC	812	8.12			14.2	2.96/19.8°c
6	MW-1	√	15/16	YES	ARCO	LWC	10.04	10.04			17.6	2.43/19.60
7	MW-3		15/16	YES	ARCO	LWC	7.98	7.98	V	V	14.8	2,59/19,900
												· ·
											····	
				-								
					(						-	
					SU	IRVEY	POINTS A	RE TOP O	F WELL C	ASINGS		

PROJECT NO: 2778-244.003 PURGED BY: B. 13.1 L  SAMPLED BY: LOCATION: DU DITO  SAMPLED BY: LOCATION: DU DITO  TYPE: Groundwater C. Surface Water  CASING DIAMETER (inches): 2 3 4 45 6 Other  CASING ELEVATION (feet/MSL): VOLUME IN CASING (gal.): 4A  DEPTH OF WELL (deet): [7.6] CALCULATED PURGE (gal.): 14.7  DEPTH TO WATER (feet): [0.04] ACTUAL PURGE (gal.): 14.7  DATE PURGED: 7 3 4 45 6 Other  CASING ELEVATION (feet/MSL): C.04 ACTUAL PURGE (gal.): 14.7  DATE PURGED: 7 3 4 45 6 Other  CASING ELEVATION (feet/MSL): C.04 ACTUAL PURGE (gal.): 14.7  DATE PURGED: 7 3 4 45 6 Other  CASING ELEVATION (feet/MSL): C.04 ACTUAL PURGE (gal.): 14.7  DATE PURGED: 7 3 4 45 6 Other  CASING ELEVATION (feet/MSL): C.04 ACTUAL PURGE (gal.): 14.7  DATE PURGED: 7 3 4 ACTUAL PURGE (gal.): 14.7  TIME: VOLUME pH E.C. TEMPERATURE COLOR TURBIDITY  (FD) (viewal)  (viewal)  14.7 4 14 5	WATER SAMPLE FIE	LD DATA SHEET Rev. 1/9
PURGED BY:  SAMPLED BY:  SAMPLED BY:  SAMPLED BY:  SAMPLED BY:  CASING DIAMETER (inches):  CASING DIAMETER (inches):  CASING DIAMETER (inches):  CASING ELEVATION (incumsts):  DEPTH OF WELL (inches):  DEPTH OF WELL (inches):  DATE PURGED:  Total purge:  PH E.C. TEMPERATURE COLOR TURBIDITY  INDEDITED SO C62 169% 74.2 9744  INDEDITED SO C63 2367 72.7 1  INDEDITED SO C63 2367 73.3 INDICED SOME (install purge)  PURGING EQUIPMENT  PURGING EQUIPMENT  SAMPLING EQUIPMENT  PURGING EQUIPMENT  PURGING EQUIPMENT  SAMPLING EQUIPMENT  SAMPLES  COLOR TURBIDITY  (COBALT 2-100)  (NITU 0-200)  (NITU 0-200)  (NITU 0-200)  (NITU 0-200)  (COBALT 2-100)  (NITU 0-200)  (NITU 0-200)  (NITU 0-200)  (NITU 0-200)  (COBALT 2-100)  (NITU 0-200)  (N	PROJECT NO: 21775-244.003	SAMPLEID: MW-1(16')
TYPE: Groundwater Surface Water Leachate Other  CASING DIAMETER (inches): 2 3 4 4.5 6 Other  CASING ELEVATION ((cerMSL): VOLUME IN CASING (gal.): 4A  DEPTH OF WELL ((teet): 1.6 CALCULATED PURGE (gal.): 14.1  DEPTH TO WATER (feet): 0.04 ACTUAL PURGE VOL. (gal.): 5.0  DATE PURGE: 79.198 END PURGE: 1986  DATE SAMPLED: VELTURE VOLUME PH EC. TEMPERATURE COLOR TURBIDITY (unus) (inhouseme 23°c) (*P. (*Comm.) (*Intent) (*P. (*Inten) (*P. (*Intent) (*P. (*Intent) (*P. (*Intent) (*P. (*Intent)	PURGED BY: B. Handrik	CLIENT NAME: Arco 6041
CASING DIAMETER (Inches): 2 3 4 45 6 Other  CASING ELEVATION ((cer/MSL): VOLUME IN CASING (gal.): 4/4  DEPTH OF WELL ((cer): 17.6 CALCULATED PURCE (gal.): 19.1  DEPTH TO WATER (feet): 17.6 CALCULATED PURCE (gal.): 19.1  DATE PURGED: 7/51/98 END PURGE: 1930  DATE SAMPLED: VAMPLING TIME: 1948  TIME VOLUME PH E.C. TEMPERATURE COLOR TURBIDITY (unbassion 9 23°c) (FP (rosen) 1942) (unbassion 9 23°c)		LOCATION: DU DIM
CASING ELEVATION ((cec/MSL):  DEPTH OF WELL ((cect):  DEPTH TO WATER ((cect):  DEPTH TO WATER ((cect):  DEPTH TO WATER ((cect):  DATE PURGED:  TO OUT ACTUAL PURGE (cgal.):  PH E.C. TEMPERATURE COLOR TURBIDITY  SAMPLING TIME:  LOCA TOWN (cgal.) (unusus (unusus) (un	CASING DIAMETER (	Leachate Other
DEPTH OF WELL (feet): 12.6 CALCULATED PURGE (gal.): 14.7 DEPTH TO WATER (feet): 0.04 ACTUAL PURGE (gal.): 15.0  DATE PURGED: 7   51   98 END PURGE: 1436  DATE SAMPLED: V SAMPLING TIME: (448  TIME VOLUME pH EC TEMPERATURE COLOR TURBIDITY  1400 HR (gal.) (unusus (unusus) (un	CASING DIAMETER (Inches): 234_	4.5 6 Other
DEPTH OF WELL (feet): 12.6 CALCULATED PURGE (gal.): 14.7 DEPTH TO WATER (feet): 0.04 ACTUAL PURGE (gal.): 15.0  DATE PURGED: 7   51   98 END PURGE: 1436  DATE SAMPLED: V SAMPLING TIME: (448  TIME VOLUME pH EC TEMPERATURE COLOR TURBIDITY  1400 HR (gal.) (unusus (unusus) (un	CASING ELEVATION ((cc/MSL):	VOLIDADING A CINCIA LA DE
DATE PURGED: 7 31 98 END PURGE : 143 DATE PURGED: 7 31 98 END PURGE: 143 DATE SAMPLED: SAMPLING TIME: 144 TIME VOLUME PH E.C. TEMPERATURE COLOR TURBIDITY (VISUAL) (UNITS) (UNITS) (UNITS) (UNITS) (UNITS) (VISUAL) (VISUAL	DEPTH OF WELL (feet): [7. G	
DATE PURGED: 7 2198 END PURGE: 143C DATE SAMPLED: V SAMPLING TIME: 1448  TIME VOLUME pH E.C. TEMPERATURE COLOR TURBIDITY 1427 S.O. G. 62 1695 74.2 97e4 14.0  1427 S.O. G. 62 1695 74.2 97e4 14.0  1430 16.0 G. 628 23G7 72.7  143G 15.0 G. 68 2369 73.3  OTHER: ODOR: \$\frac{1}{9}Mt} (COBALT 2-100) (INTU-200)  FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1):  PURGING EQUIPMENT SAMPLING EQUIPMENT  1* Bladder Pump Bailer (Fd0n) 2* Bladder Pump Bailer (Stainless Steel)  Centralizab Pump Bailer (Fd0n) Bomb Sampler Bailer (Stainless Steel)  Well Wizardo Dedicated Well Wizardo Dedicated  Cther: Other:  WELL INTEGRITY: Cool 15/16" LOCK:  PH. E.C., Temp. Meter Calibration: Date: 444 / PH 10 / PH 4 / Temperature 47  SIGNATURE: 7844	DEPTH TO WATER (feet):	ACTUAL PURGE VOL. (gal.): [5.0
DATE SAMPLED:  SAMPLING TIME: 1948  TIME VOLUME pH E.C. TEMPERATURE COLOR TURBIDITY 1400 HR) (pth) (unus) (unblookern@25°c) (*P) (vicesel) (visual) 1470		
TIME VOLUME pH EC TEMPERATURE COLOR TURBIDITY (publ) (pub) (p	DATE SAMPLED.	
Color   Colo	TIME : VOLUME	
WT   SO   G-62   1696   74.2   9144   West Serial No.:   COEALT 3-100   COEALT	2100 HB	to t
1430   16.0	1427 50 6-82 1698	7// (visual)
OTHER:  ODOR: Slight  (COBALT 3-100) (INTU 0-200)  FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1):  PURGING EQUIPMENT  PURGING EQUIPMENT  SAMPLING EQUIPMENT  SAMPLING EQUIPMENT  Purging Bailer (Teflon)  Cennnfugal Pump  Bailer (Stainless Sicel)  Well Wizardô  Dedicated  Well Wizardô  Other:  WELL INTEGRITY:  COOU  Submersible Pump  Bailer (Stainless Sicel)  Other:  WELL INTEGRITY:  COOU  Submersible Pump  Dedicated  Well Wizardô  Other:  WELL INTEGRITY:  COOU  Submersible Pump  Dedicated  Well Wizardô  Other:  WELL C. Temp. Meter Calibration:  Date: Submersible Pump  Well Wizardô  Dedicated  Other:  WELL INTEGRITY:  COOU  Submersible Pump  Dedicated  Well Wizardô  Other:  Well Wizardô  Other:  Well Mizardô  Dedicated  Other:  Well Mizardô  Dedicated  Other:  Well Mizardô  Other:  Well Mizardô  Dedicated  Other:  Well Mizardô  Other:  Well Mizardô  Dedicated  Other:  Well Mizardô  Other:  Well Mizardô  Other:  Well Mizardô  Other:  Well Wizardô  Other:  Well Mizardô  Other:  Well Wizardô  Other:  Well Wizar	1430 600 6.68 2367	72.7
OTHER:  ODOR: S(19M1  FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1):  PURGING EQUIPMENT  SAMPLING EQUIPMENT  SAMPLING EQUIPMENT  Cenaringal Pump Bailer (Teflon) Submersible Pump Bailer (Stainless Steet) Dipper Submersible Pump Well Wizard  Other:  WELL INTEGRITY:  WELL INTEGRITY:  Date: Male Collection  Date: Male Collection  Date: Male Collection  Dedicated  Dedicated	1936 1510 6.88 2358	
FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1):  PURGING EQUIPMENT  2" Bladder Pump  Bailer (Teflon)  Centrifugal Pump  Bailer (Stainless Steel)  Submersible Pump  Well Wizardo  Dedicated  Well Wizardo  Dedicated  WELL INTEGRITY:  WELL INTEGRITY:  Date:  Weter Calibration:  Date:  Dipper  LOCK:  Time:  Meter Serial No.:  E.C. 1000  PH 7  PH 10  PH 4  /  Temperature *F  SIGNATIDE:  COBALT 3-100)  (NTU 0-200)  (NTU 0-20		
FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1):  PURGING EQUIPMENT  2" Bladder Pump  Bailer (Teflon)  Centrifugal Pump  Bailer (Stainless Steel)  Submersible Pump  Well Wizardo  Dedicated  Well Wizardo  Other:  DH EC., Temp, Meter Calibration:  Date:  Weter Serial No.:  EC. 1000  PH 7  Temperature *F  SIGNATIDE:  COBALT 3-100)  (NTU 0-200)		
FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1):  PURGING EQUIPMENT  2" Bladder Pump  Bailer (Teflon)  Centrifugal Pump  Bailer (Stainless Steel)  Submersible Pump  Well Wizardo  Dedicated  Well Wizardo  Other:  DH EC., Temp, Meter Calibration:  Date:  Weter Serial No.:  EC. 1000  PH 7  Temperature *F  SIGNATIDE:  COBALT 3-100)  (NTU 0-200)	OTHER:	11°
PURGING EQUIPMENT  SAMPLING EQUIPMENT  2° Bladder Pump  Bailer (Teflon)  Centrifugal Pump  Bailer (Stainless Steet)  Well Wizardô  Cether:  Well Wizardô  Dedicated  Well Wizardô  Other:  WELL INTEGRITY:  Date:  Well Wizardô  Date:  Well Wizardô  Date:  Well Wizardô  Dedicated  Well Wizardô  Dedicated  Dipper  Well Wizardô  Dedicated  Well Wizardô  Dedicated  Dedicated  Dedicated  Well Wizardô  Dedicated  Dedicated  PH DOCK:   Time:  Meaer Serial No.:  E.C. 1000  PH 7  PH 10  PH 4  PH 4  PH 4  SIGNATURE:  SAMPLING EQUIPMENT  Bailer (Teflon)  Bailer (Teflon)  Bailer (Teflon)  Bailer (Stainless Steet)  Dipper  Submersible Pump  Dedicated	/ ODOK	
PURGING EQUIPMENT  2" Bladder Pump  Bailer (Teflon)  Centrifugal Pump  Bailer (Stainless Steel)  Submersible Pump  Well Wizardô  Dedicated  Well Wizardô  Other:  WELL INTEGRITY:  Cood  15   6"  PH. E.C., Temp. Meter Calibration:  Date:  Well Wizardô  Date:  Well Wizardô  Dedicated  Meaer Serial No.:  E.C. 1000  PH. T. PH 10  PH 4  SAMPLING EQUIPMENT  Bailer (Teflon)  Bailer (Teflon)  Bailer (Teflon)  Bailer (Stainless Steel)  Dipper  Submersible Pump  Well Wizardô  Dedicated  Dedicated  LOCK:  PH. E.C., Temp. Meter Calibration:  Date:  Meaer Serial No.:  E.C. 1000  PH. J. PH 10  PH 4  SIGNATURE:  SAMPLING EQUIPMENT  Bailer (Teflon)  Bailer (Teflon)  Bailer (Teflon)  Bailer (Teflon)  Bailer (Teflon)  Bailer (Stainless Steel)  Dipper  Submersible Pump  Dedicated  Dedicated  Dedicated  Dedicated  Dedicated  Dedicated	FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XI	(COBALT 3-100) /(NTU 0-200)   DUP-11 /
2" Bladder Pump Bailer (Teflon) 2" Bladder Pump Bailer (Teflon) 2" Bladder Pump Bailer (Teflon)    Centrifugal Pump Bailer (Stainless Steel) Bomb Sampler Bailer (Stainless Steel)   Submersible Pump Bailer (Stainless Steel) Dipper Submersible Pump Well Wizardô Dedicated   Other: Other:   Other:		/
Centrifugal Pump Bailer (PVC) Bomb Sampier Bailer (Stainless Steel)  Submersible Pump Well Wizard  Dedicated  Well Wizard  Other:  WELL INTEGRITY:  WELL INTEGRITY:  Date:  Date:  Date:  Dipper Well Wizard  Dedicated  Well Wizard  Dedicated  Dedicated  Dipper  Well Wizard  Dedicated	PURGING FOUIPMENT	SAMPLING EQUIPMENT
Centrifugal Pump  Submersible Pump  Bailer (Stainless Steel)  Dipper  Well WizardÔ  Dedicated  Other:  WELL INTEGRITY:  COOU  Date:  Date:  Dipper  Well WizardÔ  Dedicated  Cther:  Dipper  Well WizardÔ  Dedicated  Dipper  Submersible Pump  Dedicated  Dipper  LOCK:  REMARKS:  PH. E.C., Temp. Meter Calibration:  Date:  Date:  Mexer Serial No.:  E.C. 1000  PH 7  PH 10  PH 4  PH 4  Temperanue °F  SIGNATURE:  SIGNATURE:  SIGNATURE:	Same (Tellon)	2" Bladder Puran Bailer (Teflon)
Well Wizardô Dedicated Well Wizardô Other:  WELL INTEGRITY:  WELL INTEGRITY:  Date:  Dipper Well Wizardô Dedicated  Other:  LOCK:  PH. E.C., Temp. Meter Calibration:  Date:  Date:  Dipper Well Wizardô Dedicated  Other:  LOCK:  PH 7	Suite (1 VC)	_
WELL INTEGRITY: Cool [5] 6"  WELL INTEGRITY: Cool [5] 6"  LOCK:	(outlier a sicely	Dipper Submersible Pump
WELL INTEGRITY: Cool 15/16"  REMARKS:  pH. E.C., Temp. Meter Calibration: Date: See Mw-2 Time: Meter Serial No.:  E.C. 1000 / pH 7 / pH 10 / pH 4 /  Temperature *F  SIGNATURE: The serial No.:		
PH. E.C., Temp. Meter Calibration: Date: See MW-2 Time: Meter Serial No.:  E.C. 1000 / pH 7 / pH 10 / pH 4 /  Temperature °F		Other:
PH. E.C., Temp. Meter Calibration: Date: See MW-2 Time: Meter Serial No.:  E.C. 1000 / pH 7 / pH 10 / pH 4 /  Temperature °F	WELL INTEGRITY: (2000) 15/6"	
pH. E.C., Temp. Meter Calibration: Date: See MW-2 Time: Meter Serial No.:  E.C. 1000 / pH 7 / pH 10 / pH 4 /  Temperature °F		LOCK:
E.C. 1000 / pH 7 / pH 10 / pH 4 /	RESIARRS:	
E.C. 1000 / pH 7 / pH 10 / pH 4 /		
E.C. 1000 / pH 7 / pH 10 / pH 4 /		
E.C. 1000 / pH 7 / pH 10 / pH 4 /		
E.C. 1000 / pH 7 / pH 10 / pH 4 /	pH. E.C., Temp. Meter Calibration: Date: See MW-2 Time:	
Temperature °F	F.C. 1000	U 10
SIGNATURE: REVIEWED BY: A PAGE / OF 3	Temperature °F	pri -
	SIGNATURE: KHY REVI	EWED BY: A PAGE / OF 3

#### WATER SAMPLE FIELD DATA SHEET PROJECT NO: 21775- 244.003 SAMPLEID: MW-Z (13) PURGED BY: B. Hendricks CLIENT NAME: Arco GOY SAMPLED BY: LOCATION: Dublin Surface Water \_\_\_\_ TYPE: Groundwater \_\_\_\_\_ Leachate CASING DIAMETER (inches): 2 \_\_\_\_\_ 3 \_\_\_\_ 4 \_\_\_\_ 6 \_\_\_\_\_ Other \_\_\_\_ CASING ELEVATION (feet/MSL): VOLUME IN CASING (gail): 3,9 DEPTH OF WELL (feet): 14.2 CALCULATED PURGE (gal.): 11.9 ACTUAL PURGE VOL (gal): 17. 8 DATE PURGED: 7/31/59 END PURGE: 1356 DATE SAMPLED: SAMPLING TIME: 1407 TIME . VOLUME E.C. TEMPERATURE COLOR TURBIDITY (2400 HR) (gai.) (umnos/cm@25°c) (°F) 1346 (Visual) 40 1815 HIGH 8.0 1356 120 OTHER: ODOR: home (ATTU 0-200) FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): **PURGING EQUIPMENT** SAMPLING FOURMENT 2" Bladder Pump Bailer (Teflon) 2" Bladder Puran Bailer (Teflon) Centrifugai Pump Bailer (PVC) Bomb Sampler Bailer (Stainless Steel) Submersible Pump Bailer (Stainless Steel) Dipper Submersible Pump Well WizardÔ Dedicated Well WizardÓ Dedicated Cther, Other: WELL INTEGRITY: Good 15/16" LOCK: REMARKS: pH. E.C. Temp. Meter Calibration: Date: 1/3, 98 Time: (337 Meter Serial No.: EC 1560 1903, 1413 pH7 7.04 / 7.02 PH 10 9.55/1000 PH 4 3.94/ 4.00 Temperature \*F REVIEWED BY: MAP PAGE Z OF 3 SIGNATURE:

#### WATER SAMPLE FIELD DATA SHEET Rev. 1/97 PROJECT NO: 121775-244.003 SAMPLEID: MW-3(13) PURGED BY: B. Hendricks CLIENT NAME: Arco SAMPLED BY: LOCATION: Dublin Groundwater \_\_\_\_\_ Surface Water \_\_\_\_ TYPE: Leachate Other CASING DIAMETER (inches): 2\_\_\_\_\_\_3\_\_\_\_ 6 Other CASING ELEVATION (feet/MSL): VOLUME IN CASING (gai.): 4 4 DEPTH OF WELL (feet): 14.8 CALCULATED PURGE (gal.): [3, 4] DEPTH TO WATER (feet): 7.98 ACTUAL PURGE VOL. (gal.): ( . O 7/3:148 DATE PURGED: END PURGE: 154 DATE SAMPLED: SAMPLINGTIME: 1537 TIME . VOLUME ρH E.C. TEMPERATURE COLOR TURBIDITY :2400 HR) (gal.) (units) (µmhos/cm@25°c) (°F) (VISION) 1508 5.0 6.95 7.245 70 d mas after recharge G.87 2348 OTHER: ODOR: Strant FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): **PURGING EQUIPMENT** SAMPLING EQUIPMENT 2" Bladder Pump Bailer (Teflon) 2" Bladder Pump Bailer (Teflon) Cantrifugal Pump Bailer (PVC) Bomb Sampler Bailer (Stainless Steel) Submersible Pump Bailer (Stainless Steel) Dipper Submersible Pump Well WizardO Dedicated Well WizardÓ Deducated Other: Other: WELL INTEGRITY: 600 LOCK: -REMARKS: \_\_\_ Way Salking 15(1 $\omega r T$ 1520 pH. E.C., Temp. Meter Calibration: Date: 5 ... MW-T Time: Meter Serial No.: pH 7\_\_\_\_\_/ pH 10 / Temperature \*F SIGNATURE: REVIEWED BY: PAGE 3 OF 3

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Sample I.D.	Lab no.	Container no.	Soil	Water	Other	ice	Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEXTPH ACTAC	TPH Modified 801 Gas □ Diesel O	Oil and Grease 413.1 [] 413.2 []	TPH EPA418.1/SM 503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Serr Metals□ VOA□ V	CAM Metals EPA 6010/7000-TTLCO STLCO	_ead_Org/DHS☐ Lead EPA 7420/				Sample will aeliver	
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