February 14, 1992

Alameda County Health Care Services Agency Attn: Mr. Ravi Arulanantham 80 Swan Way, Suite 500 Oakland, CA 94621

Dear Mr. Arulanantham:

Enclosed is the copy of Quarterly Monitoring Report, Property located at 6310 Houston Place, Dublin, CA 94568 from the Environmental Geosciences Engineering Division out of Phoenix, Arizona.

Please review and if you would like to discuss this report, please call.

Sincerely,

Fred L. Houston

Enclosures

February 14, 1992



Mr. Fred L. Houston
Winning Action Investments, Inc.
7080 Donlon Way, Ste. 208
Dublin, CA 94568

Subject: Quarterly Monitoring Report, Property Located at 6310 Houston Place, Dublin, California

Dear Mr. Houston:

This letter report presents the results of quarterly monitoring performed on January 17, 1992 for the above referenced property, shown in Figure 1, Attachment A. Previous soil and groundwater analytical results have been summarized in reports dated April 9, 1991, titled "Well Installation Report and Results of Quarterly Monitoring, American City Truck Stop, 6310 Houston Court, Dublin, CA", in the "Quarterly Monitoring Report" dated August 5, 1991 and in previous reports referenced therein. To evaluate the potential impact on beneficial uses of groundwater due to the previous hydrocarbon release, a quarterly monitoring program has been recommended and voluntarily implemented.

### **Groundwater Sample Collection Protocol**

A proposal to collect water samples from four of the six groundwater monitoring wells was submitted for approval to Mr. Ravi Arulanantham, Hazardous Materials Specialist with Alameda County Health Care Services. Mr. Arulanantham approved collection of water samples from five of the six groundwater monitoring wells and indicated that Well MW-4 was to be monitored for water level elevation. The groundwater samples have been collected in accordance with protocol presented in the report dated 9 April, 1991. Initially, the wells were purged by bailing until a non turbid discharge was obtained. During sampling, well discharge was monitored for temperature, pH and conductivity until these indicator parameters had stabilized completely. Once the indicator parameters had stabilized, a teflon bailer equipped with a bottom emptying device was used for collection of groundwater samples, reducing the risk of volatilization of hydrocarbon constituents. Water samples were transferred directly from the bottom emptying device into glass vessels equipped with teflon septa. Samples were appropriately preserved and delivered to the certified analytical laboratory under appropriate chain of custody protocol.

### **Groundwater Analytical Results**

The groundwater samples have been submitted for analysis of total petroleum hydrocarbons as diesel (TPHD), total oil and grease (TOG) and benzene, toluene, ethylbenzene and xylenes (BTEX) by appropriate methods. Analytical results are summarized in Table 1, Attachment B. Certified analytical reports and chain of custody documentation are

Mr. Fred Houston Winning Action Investment February 14, 1992 Page 2

presented in Attachment C. TOG and benzene are not present in detectable concentrations. Trace concentrations of toluene and ethylbenzene have been detected in MW-1. Low to trace levels of TPHD and xylenes have been detected in Wells MW-1, MW-2, MW-3 and MW-5. A TPHD concentration isopleth map is presented in Figure 3. The detected concentrations of TPHD, the primary constituent present, are fairly consistent with previous data. Well MW-6, installed to provide for lateral downgradient definition of petroleum hydrocarbons, contained no detectable petroleum constituents.

### **Groundwater Elevation Data**

Groundwater elevation data are summarized in Table 2, Attachment B. A potentiometric map is presented in Figure 2. The wells were allowed to equilibrate for 24 hours prior to water level measurement. The length of time required for equilibrium water level conditions to be established is associated with the very fine grained, semiconfining site soils, which are prone to a delayed yield from storage. The groundwater contour map presented in Figure 2 is generally consistent with previous site data.

Copies of this groundwater monitoring report should be submitted to:

RWQCB- S.F. Bay Region

Alameda County Health Care Services Agency

Attn: Mr. Ed So

Attn: Mr. Ravi Arulanantham

2101 Webster Street, Ste. 500

80 Swan Way, Ste. 500

Oakland, CA 94612

Oakland, CA 94621

Additional copies of this report have been provided for the purpose of regulatory submittal. Should you have any questions or comments, please call.

Very truly yours,

ENVIRONMENTAL GEOSCIENCES ENGINEERING

Valentin Constantinescu, M.Sc.

Senier Project Hydrogeologist

Christopher M. French, R.G., R.E.A.

Valentin Gourtautian

Certified Engineering Geologist #1614 (Exp. 6/30/92)

VC/CMF/nr

Attachments (2)

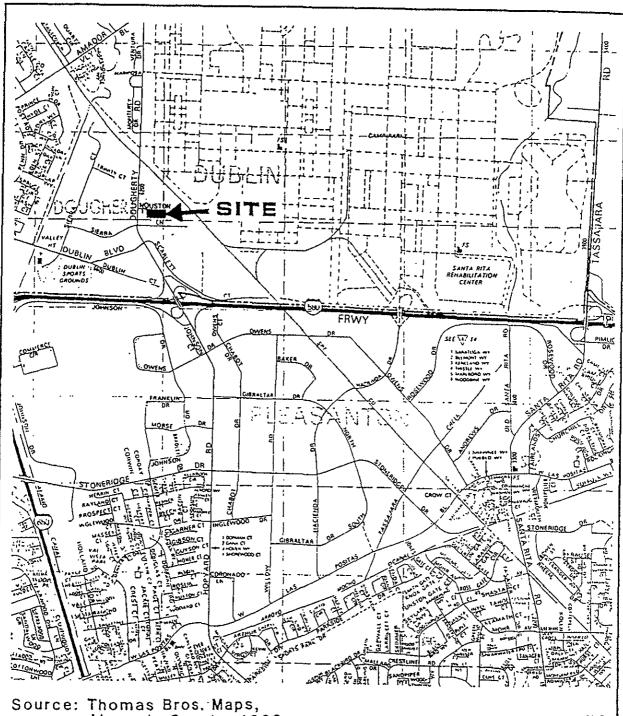




## ATTACHMENT A

Figures





Alameda County, 1989

N

2,000 feet SCALE

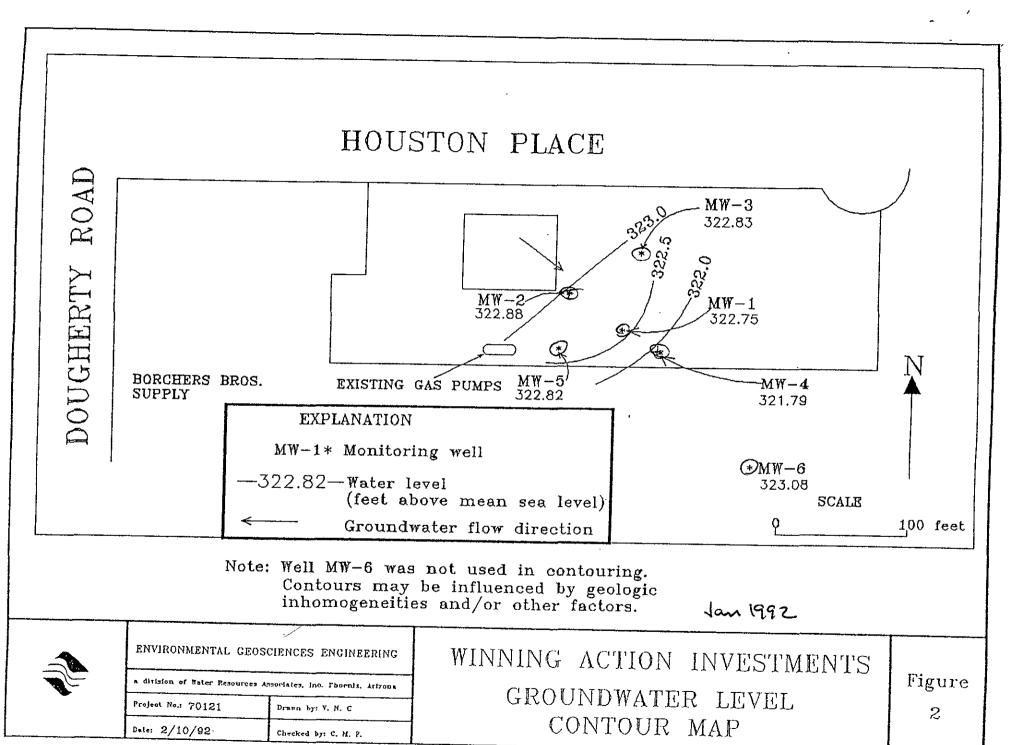


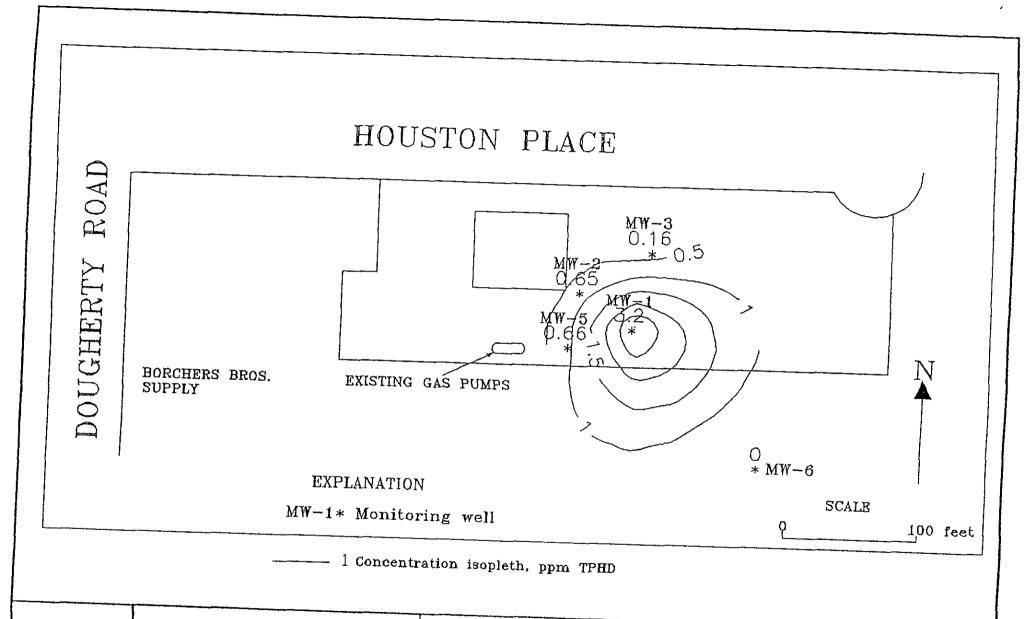
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Environmental Geos	sciences Engineering			
a division of Water Resources Associates, Inc. Phoenix, Arizona				
Project No. 70121	Brawn by: Y. N. C.			
Date: 2/10/92	Checked by: C. M. F.			

WINNING ACTION **INVESTMENTS** SITE LOCATION MAP

Figure 1







ENVIRONMENTAL GEOSCIENCES ENGINEERING

Project No. 70121 Brawn by: Y. N. C.

Datos 2/10/92

Checked by C. M. F.

# WINNING ACTION INVESTMENTS LEVELS OF TPH-DIESEL CONTOUR MAP

Figure

3

### ATTACHMENT B

**Tables** 



Table 1. Summary of historical groundwater monitoring results for American City Truck Stop, Winning Action Investment, Dublin, CA

	MONITORING	WELL MW-1					
	DATE	TPHD	TOG	В	T	E	Х
	8/15/89	10.6	N/A	0.016	ND	0.0024	0.0031
	12/13/89	60.0	N/A	ND	ND	ND	
		4.3					ND
00	6/20/90		7.2	ND	ND	ND	ND
	8/30/90	15.0	20.0	ND	ND	ND	ND
	3/01/91	<0.05	<0.5	N/A	N/A	N/A	N/A
	7/19/91	10.0	20.0	N/A	N/A	N/A	N/A
	1/17/92	3.2	<5	<0.0003	0.0006	0.0004	0.0024
	MONITORING	WELL MW-2					
	DATE	TPHD	TOG	В	T	E	х
	8/15/89	47.0	50.0	ND	ND	ND	ND
	12/13/89	34.0	95.0	ND	ND	ND	ND
	6/20/90	1.2	ND	ND	ND	ND	ND
	8/30/90	1.8	2.5	ND	ND		
	3/01/91	<0.05				ND	ND
			1.9	N/A	N/A	N/A	N/A
	7/19/91	2.3	8.9	N/A	N/A	N/A	N/A
	1/17/92	0.65	<5	<0.0003	<0.0003	<0.0003	0.0006
	MONITORING	WELL MW-3					
	DATE	TPHD	TOG	В	T	E	Х
*	8/15/89	2.0	N/A	ND	ND	ND	ND
*	12/13/89	1.7	N/A	ND	ND	ND	ND
	6/20/90	ND	ND	ND	ND	ND	
							ND
	3/01/91	0.45	0.6	N/A	N/A	N/A	N/A
	7/19/91	0.32	0.7	N/A	N/A	N/A	N/A
	1/17/92	0.16	<5	<0.0003	<0.0003	<0.0003	0.0003
	MONITORING	WELL MW-4					
	DATE	TPHD	TOG	В	Ŧ	E	Х
	6/20/90	22.0	8.6	ND	ND	ND	ND
	8/30/90	0.56	2.4	ND	ND	ИD	ND
	3/01/91	0.73	1.4	N/A	N/A	N/A	N/A
	7/19/91	0.72	1.2	N/A	N/A		
	1/17/92	N/A				N/A	N/A
	1/1//52	N/A	N/A	N/A	N/A	N/A	N/A
	MONITORING	WELL MW-5					
_	DATE	TPHD	TOG	В	T	E	Х
×	3/07/91	74.0	160	<0.0005	0.0012	0.001	0.0022
	7/19/91	32.0	34	<0.0005	<0.0005	<0.0005	0.0020
	1/17/92	0.66	<5	<0.0003			
	1/11/32	0.00	<b>\</b> 5	~0.0003	<0.0003	<0.0003	0.0009
	MONITORING	WELL MW-6					
	DATE	TPHD	TOG	В	T	E	X
*	3/07/91	<0.05	<0.5	N/A	N/A	N/A	N/A
•	7/19/91	<0.05	<0.5	N/A	N/A	N/A	n/A
	1/17/92	<0.05	<5	<0.0003	<0.0003	<0.0003	<0.0003
	, = - ,					-01000	40.0003

Continued on following page



Table 1 (continued). Summary of historical groundwater monitoring results for American City Truck Stop, Winning Action Investment, Dublin, CA

Note: Concentrations expressed in milligrams per liter (mg/L), or ppm. 1989 and 1990 results reported in Winters Petroleum (1989), Safety Specialists (1989) and NSI (1990).

CAL-EPA Drinking Water Standards:

benzene - 0.001 mg/l ethylbenzene - 0.680 mg/l xylenes - 1.750 mg/l

#### Abbreviations

TPHD - total petroleum hydrocarbons as diesel
B - benzene
T - toluene
X - xylenes
E - ethylbenzene
TOG - total oil and grease
ND - not detected
N/A - not analyzed

Cal-EPA - California Environmental Protection Agency



Table 2. Summary of groundwater elevation data for American City Truck Stop, Winning Action Investment, Dublin, CA

### MONITORING WELL MW-1

DATE	<u>whe</u>	DTW	GWE
8/15/89 12/13/89 6/20/90 8/30/90 4/08/91 7/12/91 1/17/92	332.47	NR 9.34 8.84 8.83 7.73 9.25 9.72	323.13 323.13 323.63 323.64 324.74 323.22 322.75
MONITORING WELL	L MW-2		
DATE	WHE	DTW	<u>GWE</u>
8/15/89 12/13/89 6/20/90 8/30/90 4/08/91 7/12/91 1/17/92	332.58	NR 9.21 8.82 8.82 7.81 9.42 9.70	323.27 323.37 323.76 323.76 324.77 323.16 322.28 522.88
MONITORING WELL	L MW-3		· · · · ·
DATE	<u>whe</u>	DTW	<u>GWE</u>
8/15/89 12/13/89 6/20/90 8/30/90 4/08/91 7/12/91 1/17/92	332.40	NR 9.10 8.57 8.58 7.58 9.11 9.57	323.33 323.30 323.83 323.82 324.82 323.29a 322.83
MONITORING WELL	∴ MW-4		
DATE	<u>whe</u>	<u>DTW</u>	GWE
6/20/90 8/30/90 4/08/91 7/12/91 1/17/92	331.55ª	8.06 8.07 7.70 9.00 9.76	323.49 323.48 323.85 322.55 <sup>a</sup> 321.79
MONITORING WELI	4 MW-5		
DATE	WHE	<u>DTW</u>	<u>GWE</u>
4/08/91 7/12/91 1/17/92	332.49	7.75 8.98 9.67	324.74 323.51 <sup>a</sup> 322.82

Continued on next page



Table 2. (continued) Summary of groundwater elevation data for American City Truck Stop, Winning Action Investment, Dublin, CA

#### MONITORING WELL MW-6

<u>GWE</u>	<u>DTW</u>	<u>WHE</u>	DATE
324.69	7.95	332.64	4/08/91
323.22ª	9.42		7/12/91
323.08	9.56		1/17/92

Note: Elevation data expressed in feet above mean sea level, City of Dublin datum. Elevation data from 1989 and 1990 reported in Safety Specialists (1989) and NSI (1990), respectively.

a Uncertain data.

#### <u>Abbreviations</u>

WHE - well-head elevation DTW - depth to water

GWE - groundwater elevation



### ATTACHMENT C

Certified Analytical Report and Chain of Custody Documentation





84820

# CHAIN OF CUSTODY

Environmental Geosciences Engineering DATE: ///7/92 PAGE: 1 OF\_ a division of Water Resources Associates Inc. Phoenix Autona PROJ. MCR. VALENTIM CONSTANTINESCH ANALYSIS REQUEST COMPANY\_  $\mathbf{T}$ T  $\mathbf{B}$ PHALLOS VOLLATILES VOLLATILES M 200 Brown Road, Suite 210 ORGAN ADDRESS P T O T A L P T 80  $\mathbf{E}$ Fremont California 94539 OLU U (510) /70-5733 Telefax (510) 770-5752  $\mathbf{H}$  $\mathbf{H}$ H E  $\overline{\mathbf{T}}$ G SAMPLER'S SIGNATURE Valentian  $\mathbf{B}$ 8101770-5733 PHONE NO. T  $\mathbf{E}$ SAMPLE I.D. DATE TIME Cd.Cr Pb.Zn Ni MATRIX  $\mathbf{X}$ MW-1 SOIL. WATER WATER lease (nitial) 3011. WATER amples Stored in WATER gon. MATER without headspace. SOIL WATER PROJECT INFORMATION: RELINQUISHED BY, Allan Divis Courter Du WINNING ACTION RELINQUISHED BY: RELINQUISHED BY: Find Story VACENTIN Printed Name LABORATORY INSTRUCTIONS/COMMENTS: Printed Name Printed Name Turn Around Time (Cirole One) Company EXMERIN - , -Same Day Company 24 Hrs. 48 Hrs Time 16:45 Date 1/17/92 72 Hrs Time /7/1 Date /-17-92 Normal Time 0853 Date 1-20-72 5DAYS TURNAROUND Za LUCE RECEIVED BY: Printed Name 1200 STEW 201 Printed Name EXPAULIT-17 ANALYTICAL Company LABORATORY CITY\_ Time 1766 Date 11174 Time 07-7 Date 1.2072 Company

\_ 9 , vicked up on 1/17/97 12/1

### CERTIFICATE CF ANALYSIS

LABORATORY NO.: 84820

CLIENT: ENVIRONMENTAL GEOSCIENCES ENG.

CLIENT JOB NAME: WINNING ACTION

DATE RECEIVED:01/17/92 DATE REPORTED:01/24/92

DATE SAMPLED :01/17/92

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES by EPA SW-846 METHODS 5030 and 8020

LAB			Concentration(ug/kg) Ethyl			
# 	Sample Identification	Benzene	Toluene	Benzene	Xylenes	
1	MW-1	ND<0.3	0.6	0.4	2.4	
2	MW-2	ND<0.3	ND<0.3	ND<0.3	0.6	
3	MW-3	ND<0.3	ND < 0.3	ND<0.3	0.3	
4	MW - 5	ND<0.3	ND<0.3	ND < 0.3	0.9	
5	MK-6	ND<0.3	ND < 0.3	ND<0.3	ND<0.3	

ug/kg - parts per billion (ppb)

Method Detection Limit in Water: 0.3 ug/L

#### QAQC Summary:

Daily Standard run at 20ug/L: RPD = < 15%

MS/MSD Average Recovery = 104%: Duplicate RPD = < 1

Richard Srna, Ph.D.

Laboratory Director

Certified Laboratories

### CERTIFICATE OF ANALYSIS

LABORATORY NO.: 84820 CLIENT: ENVIRONMENTAL GEOSCIENCES ENG.

DATE RECEIVED:01/17/92 DATE REPORTED: 01/24/92

CLIENT JOB NAME: WINNING ACTION

DATE SAMPLED :01/17/92

### ANALYSIS FOR TOTAL OIL AND GREASE by STANDARD METHODS 5520F

LAB # 	Sample Identification	Concentration(mg/L) Oil & Grease
1 2 3	พพ− 1 мพ − 2 мพ − 3	ND<5 ND<5
4 5	MW-5 MW-6	ND<5 ND<5 ND<5

mg/L - parts per million (ppm)

Method Detection Limit for Oil and Grease in Water: 5 mg/L

QAQC Summary: MS/MSD Average Recovery: 72%

Duplicate RPD: 4

Richard Srna, Ph.D.

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 84820

CLIENT: ENVIRONMENTAL GEOSCIENCES ENG.

CLIENT JOB NAME: WINNING ACTION

DATE RECEIVED: 01/17/92 DATE REPORTED: 01/24/92

DATE SAMPLED: 01/17/92

# ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB # 	Sample Identification	Concentration (mg/L) Diesel Range
1	MW-1	3.2
2	MW-2	0.65
3	MW-3	0.16
4	MW-5	0.66
5	MW-6	ND<0.05

mg/L - parts per million (ppm)

Method Detection Limit for Diesel in Water: 0.05 mg/L

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 9

RPD Diesel = 0

MS/MSD Average Recovery = 90%: Duplicate RPD = 1

Richard Srna, Ph.D.

Laboratory Director

# WELL MONITORING FORM:

CLIENT: Fred L. Hous	ton	DATE: 1/17/92	
ADDRESS: 6310 Hous	ton Place	COUNTY REPRESENTATIVE	: Mr. Ravi Arulananthan
<u>Dublin, Cal</u>	ifornia	CONTACTED PRICE	OR TO SAMPLING? YES
accuracy of	DEPTH & DEPTH TO .01' from a straigh on top of the chris	it edge placed in	nents are read to an a north-south
Note 2: The 0.17 fig	ure used below to	convert WATER Co	OLUMN HEIGHT to gallons "diameter, Schedule 40 ailarly, use a conversion "I.D.
TOTAL WELL	DEPTH 20.30	MONITORING	WEIL # MW-1
- DEPTH TO	WATER 9.72		
= WATER COLUMN E	EIGHT 10.58 X 0.6	6 = <u>6.98</u> Gall	ons (1 well volume)
water to be purged	from monitoring w	ell prior to takin	palnmap vi
• –	= 20.95 (3 well	_	E SAMPION
	ALLONS TEMPERA	,	CONDUCTIVITY
	4a	•	$\mu \mathrm{mhos/cm}$
12:15	1 62.0		6.06
12:24 12:33	3 61.		6.08
12:40	5 60.6 7 62.6		6.09
12:47	9 61.8		6.03 4.25
	11 65.		3.21
	13 65.3		3.26
13:07	15 65.		3.25
13:15	17 64.6		3.20
13:22	19 64.		3.70
13:29	21 64.		3.55
CONTAMINANT ODOR?			
TURBIDITY LEVEL: MO		SSED BY: NO WIT	
SHEEN ON WATER?_ I	10 SAMPI	ER'S SIGNATURE:	Valuation Eserce

# WELL MONITORING FORM:

CLIENT: Fred L. Houston	DATE: 1/17/92
ADDRESS: 6310 Houston Place	COUNTY REPRESENTATIVE: Mr. Ravi Arulananthar
Dublin, California	CONTACTED PRIOR TO SAMPLING? YES
Note 1: TOTAL WELL DEPTH & DEPTH TO accuracy of .01' from a straigh orientation on top of the christ	t edge placed in a north-south
Note 2: The 0.17 figure used below to a has units of gallons/linear foot PVC pipe with an inside diamet factor of 0.66 for a 4" pipe, wh	, and is for a 2" diameter, Schedule 40 er of 2.067". Similarly, use a conversion
TOTAL WELL DEPTH 19.09	MONITORING WELL, # MW-2
- DEPTH TO WATER 9.70	
= WATER COLUMN HEIGHT 9.39 x 0.66	= 6.197 Gallons (1 well volume)
Multiply 1 well volume by 3 to obtain twater to be purged from monitoring we	the minimum number of gallons of all prior to taking samples.
$3 \times 6.1974 = 18.592$ (3 well	volumes)
TIME GALLONS TEMPERA	TURE DH CONDUCTIVITY

TIME	GALLONS	TEMPERATURE °F	pН	conductivity µmhos/cm
14:40	1	63.9	7.86	3.39
14:48	3	64.2	7.82	3.37
14:53	5	62.9	7.69	3.26
15:00	7	62.1	7.67	3.32
15:06	9	62.3	7.52	3.29
15:13	11	61.8	7.48	3.31
15:18	13	62.3	7.23	3.35
15:24	15	61.2	7.44	3.22
15:32	17	61.0	7.42	3.19
15:36	19	61.3	7.45	3.23

SHEEN ON WATER? NO	SAMPLER'S SIGNATURE: Valantan	Courten
TURBIDITY LEVEL: MODERATE	WITNESSED BY: NO WITNESS	<del></del>
CONTAMINANT ODOR? NO	TIME OF SAMPLE COLLECTION: 16:05	

14:06

14:13

14:21

14:30

11

13

15

17

# WELL MONITORING FORM:

CLIENT: Fred L. I	Houston	DATE: _	1/17/92		
ADDRESS: 6310	Houston Place	COUNT REPRE		: Mr. Ravi Arulananth	an
<u>Dublin</u>	, California	CONTA	CTED PRIC	R TO SAMPLING? YE	5_
accuracy	$_{7}$ of .01' from	DEPTH TO WATER a straight edge the christy box.	measuren placed in	nents are read to an a north-south	
has unit PVC pipe	ts of gallons/ with an ins	linear foot, and i	s for a 2" .067". Sim	LUMN HEIGHT to gallo diameter, Schedule dilarly, use a conversion I.D.	<b>4</b> 0
TOTAL W	ELL DEPTH 17	.44 MG	ONITORING	WELL # MW-3	
- ДЕРТН	TO WATER	0.57			
= WATER COLUM	MN HEIGHT	$\frac{7.87}{1.87} \times 0.66 = 5.19$	94 Gallo	ons (1 well volume)	
Multiply 1 well water to be pur	volume by 3 ged from mor	to obtain the mir nitoring well prior	imum nu to takin	mber of gallons of g samples.	
3 X <u>5.1</u>	94 = 15.58	(3 well volume	es)		
TIME	GALLONS	TEMPERATURE °F	pН	CONDUCTIVITY μmhos/cm	
13:25 13:32 13:40 13:47	1 3 5 7	65.3 65.2 65.8 66.2	7.42 7.47 7.39 7.48	10.83	
14:03	9	66.7	7.45	10.97	

CONTAMINANT ODOR?_NO	TIME OF SAMPLE COLLECTION: 16:15
TURBIDITY LEVEL: MODERATE	WITNESSED BY: NO WITNESS
SHEEN ON WATER?_NO	SAMPLER'S SIGNATURE: Walenty Same

66.9

67.1

66.7

66.5

7.63

7.58

7.60

7.62

10.82

10.93

11.02

11.05

TURBIDITY LEVEL: MODERATE

SHEEN ON WATER? NO

## WELL MONITORING FORM:

L						
CLIENT: Fred L. H	ouston	DATE:	1/17/92			
ADDRESS: 6310 Ho	ouston Place		COUNTY			
<u>Dublin,</u>	California	CONTA	ACTED PRIOR	r to sampling? YES		
Note 1: TOTAL WELL DEPTH & DEPTH TO WATER measurements are read to an accuracy of .01' from a straight edge placed in a north-south orientation on top of the christy box.						
Note 2: The 0.17 figure used below to convert WATER COLUMN HEIGHT to gallons has units of gallons/linear foot, and is for a 2" diameter, Schedule 40 PVC pipe with an inside diameter of 2.067". Similarly, use a conversion factor of 0.66 for a 4" pipe, which has a 4.026" I.D.						
TOTAL WELL DEPTH 18.15 MONITORING WELL # MW-5						
- DEPTH	TO WATER9	1.07				
= WATER COLUM	N HEIGHT8	$1.48 \times 0.17 = 1.4$	42Gallo:	ns (1 well volume)		
water to be purged from monitoring well prior to taking samples.						
$3 \times 1.442 = 4.325$ (3 well volumes)						
TIME	GALLONS	TEMPERATURE °F	pН	conductivity μmhos/cm		
11:30	1	55.6 57.2	7.14 7.33	8.02 8.05		
11:40 11:45	2 3	57.2 57.1	7.33 7.20	8.09		
11:55	4 5	59.6	7.18	8.30		
12:10	Э	60.1	7.16	8.31		
CONTAMINANT OD	OR? NO	TIME OF SAM	PLE COLLEC	TION: 16:20		

WITNESSED BY: NO WITNESS

SAMPLER'S SIGNATURE: Volentin Emm

# WELL MONITORING FORM:

				<del></del>		
CLIENT: Fred L. Houston		DATE:	DATE: 1/17/92			
ADDRESS: 6310 Houston Place			COUNTY REPRESENTATIVE: Mr. Ravi Arulananthan			
Dublin, California		CONTA	CONTACTED PRIOR TO SAMPLING? YES			
accurac	y of .01' from	DEPTH TO WATER a straight edge the christy box.	placed in	ents are read to an a north-south		
has uni PVC pip	its of gallons/	below to convert linear foot, and i ide diameter of & 4" pipe, which ha	is for a 2" 2.067". Sim	LUMN HEIGHT to gallons diameter, Schedule 40 ilarly, use a conversion I.D.		
TOTAL WELL DEPTH 18.80 MONITORING WELL # MW-6						
- рертн	TO WATER 9	.56				
= WATER COLU	mn height 9	$0.24 \times 0.17 = 1.6$	Gallo	ns (1 well volume)		
Multiply 1 well water to be pu	volume by 3 rged from mor	to obtain the minitoring well prio	nimum nu r to takin	mber of gallons of g samples.		
3 X <u>1</u>	.6 = 4.8	(3 well volum	ies)			
TIME	GALLONS	temperature °F	РĦ	conductivity µmhos/cm		
15:40	1	61.5	8.10	4.01		
15:43 15:45	2 3 4 5	61.0 61.2	8.15 8.22			
15:50	4	60.9	7.62	4.00		
15:55	5	60.7	7.57	3.89		
CONTAMINANT O	DOR?_NO	TIME OF SAM	PLE COLLEC	CTION: 15:57		
TURBIDITY LEVE	L: MODERATE	WITNESSED B	y: NO WIT	NESS		

SHEEN ON WATER? NO SAMPLER'S SIGNATURE: Valenten Com