

TRC

Customer-Focused Solutions

July 10, 2002

Project No. 41-0123

Mr. Barney Chan
Alameda County Health Services
1131 Harbor Bay Parkway
Alameda, California 94502-6700

B [Redacted]

JUL 16 2002

RE: FORMER MOBIL STATION 99-105
6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

Dear Mr. Chan:

Please find enclosed the Second Quarter 2002 Progress Report for the subject location prepared by TRC for ExxonMobil Oil Company. The contents of this report include:

Quarterly Progress Report Summary Sheet

- Exhibit 1: Sampling Schedule
- Exhibit 2: Summary of Groundwater Levels and Chemical Analysis
- Exhibit 3: Figures 1 through 3 (Vicinity Map, Groundwater Elevations, Dissolved-Phase Hydrocarbon Concentrations)
- Exhibit 4: Well Purging and Groundwater Sampling Protocol
- Exhibit 5: Monitoring Well Sampling Forms
- Exhibit 6: Analytical Laboratory Data Sheets
- Exhibit 7: Waste Disposal Manifest

If you have any questions regarding this report, please call me at (925) 688-2473. You may also call Mr. Gene Ortega, ExxonMobil Senior Engineer, at (925) 246-8747.

Sincerely,



Jonathan Scheiner
Associate

cc: Mr. Gene Ortega, ExxonMobil Refining and Supply Company, Global Remediation—U.S. Retail Projects
Mr. Chuck Headlee, Regional Water Quality Control Board, San Francisco Bay Region
Ms. Connie Lamb, Property Owner

TRC

Quarterly Progress Report Summary Sheet
Second Quarter 2002

JUL 16 2002

Former Mobil Station 99-105
6301 San Pablo Avenue
Oakland, California

LOP: Alameda County Health Services

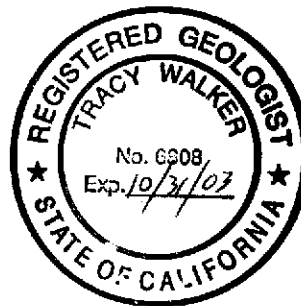
Number of water zones:	1	This Page	1
FIELD ACTIVITY:		Date Sampled:	10-Apr-02
Number of groundwater wells on-site:	3	Groundwater wells monitored:	3
Number of groundwater wells off-site:	0	Groundwater wells sampled:	3
Phase of Investigation: Vadose Zone:	N/A	Groundwater wells with free product:	0
		Groundwater phase:	Monitor & Sample
SITE HYDROGEOLOGY:			
Approximate depth to ground water below ground surface:			7.94 ft
Approximate elevation of potentiometric surface above Mean Sea Level:			34.82 ft
Average Increase/Decrease in ground water elevations since last sampling episode:		Increase:	0.21 ft
Approximate flow direction and hydraulic gradient:		West at:	0.23 ft/ft
GROUND WATER CONTAMINATION (BENZENE MCL=1.0 ppb):			
Wells containing free product:	0	Range in Thickness of Free Product:	NA
Number of wells with concentrations below MCL:	1	Volume of Free Product Recovered This Period:	0 gals
Number of wells with concentrations at or above MCL:	2	Volume of Free Product Recovered To Date:	2.65 gals
Nature of contamination:	Gasoline	Range in Concentrations:	Benzene: ND<0.50 to 275 ppb TPH-G: ND<50.0 to 2,140 ppb
ADDITIONAL INFORMATION:			
Purged water was transferred to McKittrick Waste Water Treatment Facility.			

Prepared by: Jonathan Scheiner Jonathan Scheiner
Associate

Project No: 41-0123

Approved by: Tracy L. Walker Tracy L. Walker, RG
California RG #6808 Associate

Submittal Date: 7/10/02



MONITORING WELL SAMPLING SCHEDULE 2002
Former Mobil Station 99-105

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MW-2	X	X	X	X
MW-3	X	X	X	X
MW-5	X	X	X	X

NOTES: X = well scheduled for sampling

EXHIBIT 2

SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS

Summary of Groundwater Levels and Chemical Analysis

Former Mobil Station 99-105

Well ID	Date	Top of Casing	Depth to	Groundwater	Product	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	Lead (ppb)	Dissolved Oxygen (mg/L)
		Elevation (feet)	Water Depth (feet)	Elevation (feet)	Thickness (feet)											
TW-1	01/04/96	—	6.00	—	0.00	ND	700	ND	ND	ND	ND	—	—	—	—	—
WW-1	01/04/96	—	3.00	—	0.00	ND	—	ND	ND	ND	ND	—	—	ND	—	—
MW-1	03/14/96	32.79'	4.50	28.29	0.00	810	450	0.75	0.54	1.5	59	—	—	—	ND	—
MW-1	05/21/96	32.79'	5.64	27.15	0.00	ND	ND	ND	ND	ND	ND	—	—	—	—	—
MW-1	08/13/96	32.79'	9.76	23.03	0.00	ND	ND	ND	ND	ND	ND	—	—	—	—	—
MW-1	11/08/96	32.79'	10.24'	22.55	0.00	ND	ND	ND	0.92	ND	2.1	ND	—	—	—	—
MW-1	01/31/97	32.79'	3.83	28.96	0.00	ND	ND	ND	0.85	ND	ND	2.6	ND	—	—	—
MW-1	04/22/97	32.79'	9.14	23.65	0.00	ND	ND	ND	ND	ND	ND	—	—	—	—	—
MW-1†	07/29/97	32.79'	10.18'	22.61	0.00	ND	60****	0.84	0.95	ND	1.6	36	—	—	—	—
MW-1†	10/09/97	32.79'	10.46'	22.33	0.00	ND	56****	ND	ND	ND	ND	—	—	—	—	—
MW-1†	01/23/98	32.79'	3.95	28.84	0.00	ND	33	ND	ND	ND	ND	—	—	—	—	—
MW-1	04/22/98	32.79'	5.33	27.46	0.00	ND	ND	ND	ND	ND	ND	—	—	—	—	1.25
MW-1	07/21/98	32.79'	9.17	23.62	0.00	ND	—	ND	ND	ND	ND	—	—	—	—	4.34
MW-1	10/20/98	32.79'	10.41	22.38	0.00	ND	—	ND	ND	ND	ND	—	—	—	—	2.49
MW-1	01/27/99	32.79'	5.51	27.28	0.00	ND	—	ND	ND	ND	ND	—	—	—	—	5.25
MW-1	Destroyed during construction activities in April 1999															
MW-2	03/14/96	32.80'	4.51	28.29	0.00	560	250	2.0	0.96	4.3	11	—	—	—	ND	—
MW-2	05/21/96	32.80'	5.65	27.15	0.00	730	560	5.1	1.4	6.7	5.9	—	—	—	—	—
MW-2	08/13/96	32.80'	10.14'	22.66	0.00	490	380*	25	3.5	7.2	13	—	—	—	—	—
MW-2	11/08/96	32.80'	10.70'	22.10	0.00	520	160***	80	2.7	14	66	8.1	—	—	—	—
MW-2	01/31/97	32.80'	3.84	28.96	0.00	74	130*	ND	ND	ND	ND	—	—	—	—	—
MW-2	04/22/97	32.80'	9.61	23.19	0.00	260	430	2.7	ND	2.5	ND	—	—	—	—	—
MW-2†	07/29/97	32.80'	10.53'	22.27	0.00	320	150***	28	1.2	10	ND	—	—	—	—	—
MW-2†	10/09/97	32.80'	10.87'	21.93	0.00	460	160*	43	2.8	2.0	2.6	2.6	—	—	—	—
MW-2†	01/23/98	32.80'	3.75	29.05	0.00	ND	54	ND	ND	ND	ND	—	—	—	—	—
MW-2	04/22/98	32.80'	5.36	27.44	0.00	180	540	1.2	0.3	0.4	ND	—	—	—	—	0.85
MW-2	07/21/98	32.80'	9.55	23.25	0.00	80	—	8.9	2.1	0.6	2.5	—	—	—	—	1.04
MW-2	10/20/98	32.80'	10.75'	22.05	0.00	50	—	0.8	0.7	ND	0.8	—	—	—	—	1.12
MW-2	01/27/99	32.80'	5.53	27.27	0.00	ND	—	0.6	ND	ND	ND	—	—	—	—	0.99
MW-2	07/27/99	32.80'	6.20	26.60	0.00	ND	—	ND	0.6	ND	ND	—	—	—	—	0.30
MW-2	12/08/99	32.80'	9.98	22.82	0.00	ND	—	1.2	0.43	ND	ND	—	—	—	—	1.83
MW-2	Sep-00	39.34	Well resurveyed after repair by Alisto Engineering													
MW-2	10/25/00	39.34	11.30'	28.04	0.00	<20	—	2.0	0.59	0.46	1.3	<0.30	—	—	—	0.35
MW-2	01/15/01	39.34	9.41	29.93	0.00	<20	—	<0.20	0.46	<0.20	<0.60	<0.30	—	—	—	—
MW-2	04/10/01	39.34	6.16	33.18	0.00	23	—	0.28	<0.20	<0.20	<0.60	<1.0	—	—	—	1.72
MW-2	07/24/01	39.34	10.70'	28.64	0.00	<50	—	<0.20	0.93	<0.20	0.82	<0.30	—	—	—	3.39
MW-2	11/27/01	39.34	10.15'	29.19	0.00	<50	—	1.2	0.22	<0.20	<0.60	<0.30	—	—	—	—
MW-2	11/27/01	41.99'	Well resurveyed													
MW-2	01/18/02	41.99'	5.46	36.53	0.00	<50.0	—	<0.50	<0.50	<0.50	<0.50	1.40	—	—	—	—
MW-2	04/10/02	41.99'	6.48	35.51	0.00	<50.0	—	<0.50	<0.50	<0.50	<0.50	1.80	—	—	—	—

Summary of Groundwater Levels and Chemical Analysis

Former Mobil Station 99-105

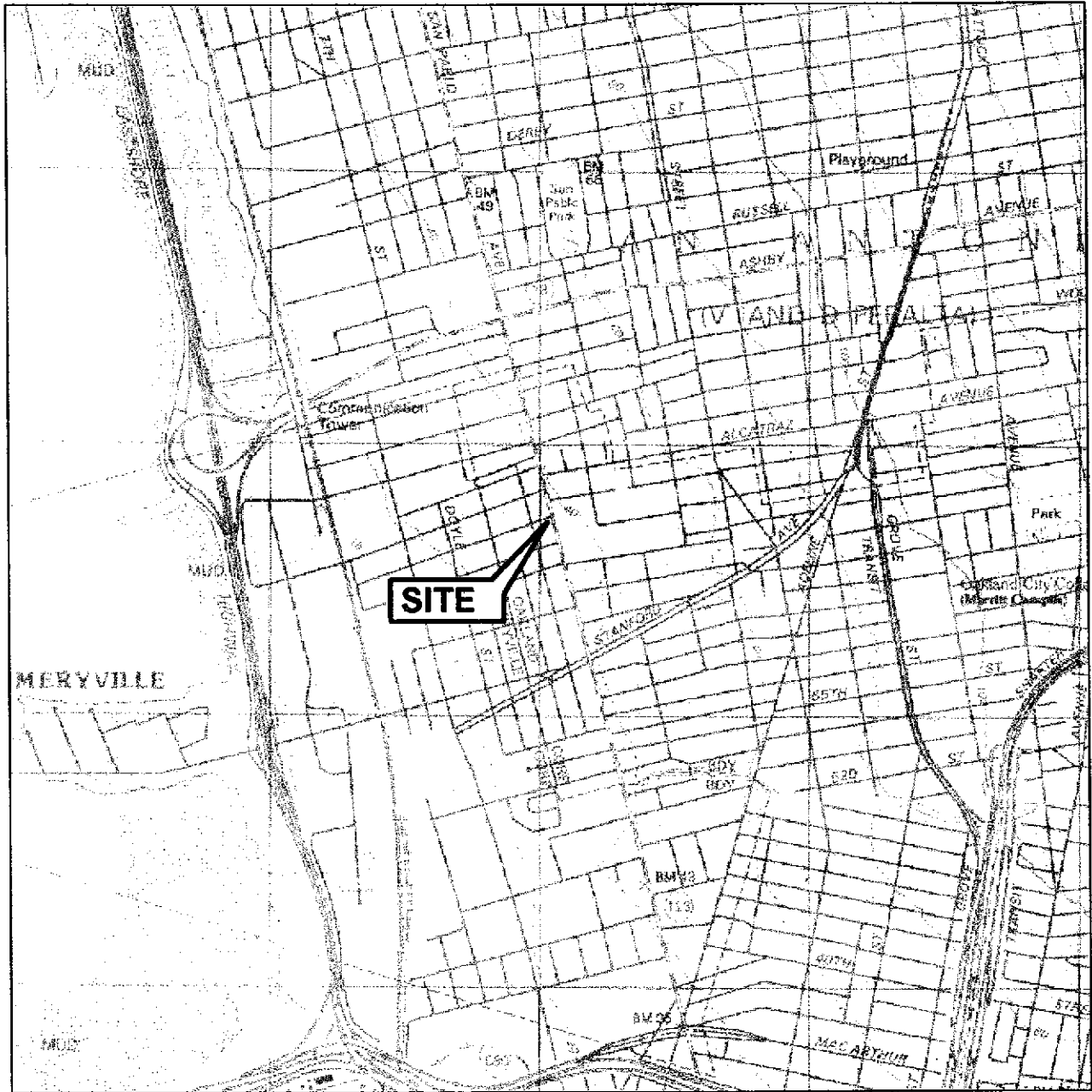
Well ID	Date	Top of Casing	Depth to	Groundwater	Product	TPH-G	TPH-D	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE 8020	MTBE 8240 or 8280	TOG	Lead	Dissolved Oxygen	
		Elevation (feet)	Water (feet)	Elevation (feet)	Thickness (feet)												
MWV-3	03/14/96	32.80	9.55	23.25	0.00	4,200	1,200	220	30	140	520	—	—	ND	ND	—	
MWV-3	05/21/96	32.80	10.18	22.64	0.00	8,500	2,600	710	110	440	1,700	—	—	—	—	—	
MWV-3	08/13/96	32.80	11.18	21.62	0.00	5,000	2,300*	430	ND	200	360	—	—	—	—	—	
MWV-3	11/08/96	32.80	11.51	21.29	0.00	8,400	2,900*	890	82	790	1,700	73	ND	—	—	—	
MWV-3	01/31/97	32.80	7.90	24.90	0.00	16,000	7,500*	660	85	960	1,800	ND	—	—	—	—	
MWV-3	04/22/97	32.80	10.64	22.16	0.00	8,000	2,700	340	33	400	490	200	ND	—	—	—	
MWV-3†	07/29/97	32.80	11.36	21.44	0.00	9,600	2,300*	330	ND	530	530	ND	—	—	—	—	
MWV-3†	10/09/97	32.80	11.52	21.28	0.00	7,300	2,600*	300	ND	430	460	270	ND	—	—	—	
MWV-3†	01/23/98	32.80	7.50	25.30	0.00	6,100	2,300	190	23	330	320	ND	—	—	—	—	
MWV-3	04/22/98	32.80	6.81	25.99	0.00	4,900	2,600	140	12	250	230	ND	ND	—	—	0.45	
MWV-3	07/21/98	32.80	10.85	22.15	0.00	7,400	—	250	16	400	370	74	ND	—	—	0.78	
MWV-3	10/20/98	32.80	11.57	21.23	0.00	6,700	—	200	18	350	350	ND	ND	—	—	0.69	
MWV-3	01/27/99	32.80	9.11	23.69	0.00	3,100	—	74	4	94	39	13	—	—	—	1.20	
MWV-3	07/27/99	32.80	7.27	25.53	0.00	8,900	—	170	21	360	440	ND	—	—	—	0.33	
MWV-3	12/08/99	32.80	10.63	22.17	0.00	4,800	—	94	13	170	210	ND	—	—	—	1.12	
MWV-3	Sep-00	39.27	Well resurveyed after repair by Alisto Engineering														
MWV-3	10/25/00	39.27	12.08	27.19	0.00	3,600	—	63	2.9	100	65	<50	<5	—	—	0.96	
MWV-3	01/15/01	39.27	10.29	28.98	0.00	4,300	—	78	9.5	47	76	<5.0	—	—	—	0.80	
MWV-3	04/10/01	39.27	10.11	29.16	0.00	2,700	—	55	4.4	100	37	<20	—	—	—	1.63	
MWV-3	07/24/01	39.27	11.57	27.70	0.00	3,100	—	110	6.9	110	81	<1.0	—	—	—	4.25	
MWV-3	11/27/01	39.27	10.83	28.34	0.00	2,400	—	47	8.9	25	35	<0.30	—	—	—	—	
MWV-3	11/27/01	41.71	Well resurveyed														
MWV-3	01/18/02	41.71	9.47	32.24	0.00	1,130	—	15.3	2.30	42.0	24.6	13.6	—	—	—	—	
MWV-3	04/10/02	41.71	10.14	31.57	0.00	916	—	35.1	3.00	22.5	13.8	11.2	—	—	—	—	
MWV-4	03/14/96	31.50	4.92	26.58	0.00	12,000	3,500	2,200	140	880	2,000	—	—	—	ND	—	
MWV-4	05/21/96	31.50	8.60	22.90	0.00	11,000	4,200	1,700	ND	930	470	—	—	—	—	—	
MWV-4	08/13/96	31.50	10.02	21.50	0.02	—	—	—	—	—	—	—	—	—	—	—	
MWV-4	11/08/96	31.50	10.28	21.33	0.15	—	—	—	—	—	—	—	—	—	—	—	
MWV-4	01/31/97	31.50	7.88	23.62	0.00	23,000	8,200*	980	68	1,100	1,400	ND	—	—	—	—	
MWV-4	04/22/97	31.50	7.40	24.10	0.00	8,600	4,500	950	ND	610	130	ND	—	—	—	—	
MWV-4	07/29/97	31.50	9.85	21.74	0.12	—	—	—	—	—	—	—	—	—	—	—	
MWV-4	10/09/97	31.50	10.35	21.38	0.30	—	—	—	—	—	—	—	—	—	—	—	
MWV-4	01/23/98	31.50	4.68	27.51	0.92	—	—	—	—	—	—	—	—	—	—	—	
MWV-4	04/22/98	31.50	6.39	25.22	0.14	—	—	—	—	—	—	—	—	—	—	—	
MWV-4	07/21/98	31.50	7.10	24.55	0.20	—	—	—	—	—	—	—	—	—	—	—	
MWV-4	10/20/98	31.50	9.03	22.60	0.17	—	—	—	—	—	—	—	—	—	—	—	
MWV-4	01/27/99	31.50	5.37	26.18	0.07	—	—	—	—	—	—	—	—	—	—	—	
MWV-4	Destroyed during construction activities in April 1999																
MWV-5	Sep-00	39.18	Well surveyed after installation by Alisto Engineering														
MWV-5	10/25/00	39.18	10.92	28.26	0.00	2,500	—	79	3.8	66	<20	<20	—	—	—	0.50	

Summary of Groundwater Levels and Chemical Analysis

Former Mobil Station 99-105

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Product Thickness (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethy- benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE		Lead (ppb)	Dissolved Oxygen (mg/L)
													8240 or 8260 (ppb)	TOG (ppb)		
MW-5	01/15/01	39.18	8.32	30.86	0.00	3,900	—	120	7.9	280	52	<5.0	—	—	—	0.69
MW-5	04/10/01	39.18	7.21	31.97	0.00	8,000	—	280	4.4	410	100	<50	<5	—	—	1.80
MW-5	07/24/01	39.18	9.54	29.64	0.00	7,000	—	360	7.4	380	67	<1.0	—	—	—	5.91
MW-5	11/27/01	39.18	8.84	30.34	0.00	5,000	—	64	11	340	52	8.9	<2	—	—	—
MW-5	11/27/01	41.59	Well resurveyed													
MW-5	01/18/02	41.59	6.52	35.07	0.00	6,330	—	99.1	2.30	103	19.6	21.8	—	—	—	—
MW-5	04/10/02	41.59	7.20	34.39	0.00	2,140	—	275	8.00	183	24.5	<2.50	—	—	—	—
AB-1	03/05/98	—	—	—	—	1,800	—	31	5.3	79	130	ND	—	—	—	—
AB-2	03/05/98	—	—	—	—	ND	—	ND	2.9	0.9	5.7	ND	—	—	—	—
AB-3	03/05/98	—	—	—	—	8,800	—	660	100	1,500	2,300	230	—	—	—	—
AB-4	03/05/98	—	—	—	—	8,500	—	240	ND	260	720	ND	—	—	—	—
AB-6	03/05/98	—	—	—	—	12,000	—	350	ND	310	100	ND	—	—	—	—
AB-9	03/05/98	—	—	—	—	1,000	—	57	12	44	93	ND	—	—	—	—
AB-10	03/05/98	—	—	—	—	200	—	3.0	1.2	3.2	2.8	ND	—	—	—	—
AB-11	03/05/98	—	—	—	—	ND	—	ND	ND	ND	ND	ND	—	—	—	—
AB-12	03/05/98	—	—	—	—	8,800	—	660	50	630	940	37	—	—	—	—
AB-13	03/05/98	—	—	—	—	210	—	11	0.8	10	15	ND	—	—	—	—
HA-1	01/25/00	—	—	—	—	ND<500	—	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<5.0	—	—	—	—

NOTES: ppt = parts per billion — = not measured/not analyzed † = well sampled using no-purge method
 mg/L = milligrams per liter ND = not detected at or above method detection limit
 TPH-G = total petroleum hydrocarbons as gasoline * = diesel and unidentified hydrocarbons <C15
 TPH-D = total petroleum hydrocarbons as diesel ** = diesel and unidentified hydrocarbons <C15>C25
 TOG = total oil and grease *** = diesel and unidentified hydrocarbons >C20
 MTBE = methyl tert-butyl ether **** = unidentified hydrocarbons >C18



1 MILE 3/4 1/2 1/4 0 1 MILE



SCALE 1 : 24,000



QUADRANGLE
LOCATION

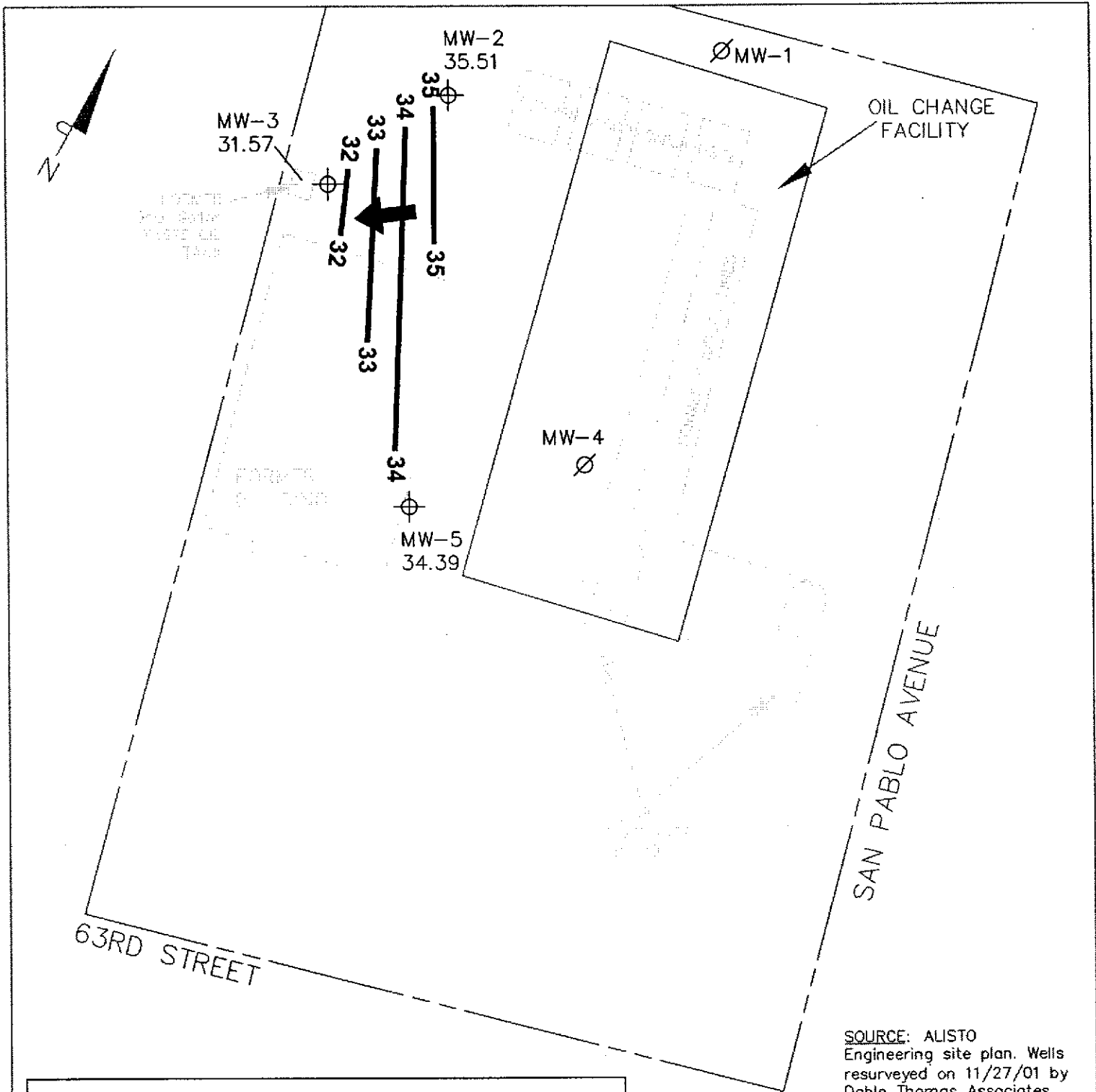
SOURCE:
United States Geological Survey
7.5 Minute Topographic Maps:
Oakland West Quadrangle

VICINITY MAP

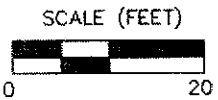
Former Mobil Station 99-105
6301 San Pablo Avenue
Oakland, California

TRC

FIGURE 1



SOURCE: ALISTO
Engineering site plan. Wells
resurveyed on 11/27/01 by
Doble Thomas Associates.



LEGEND

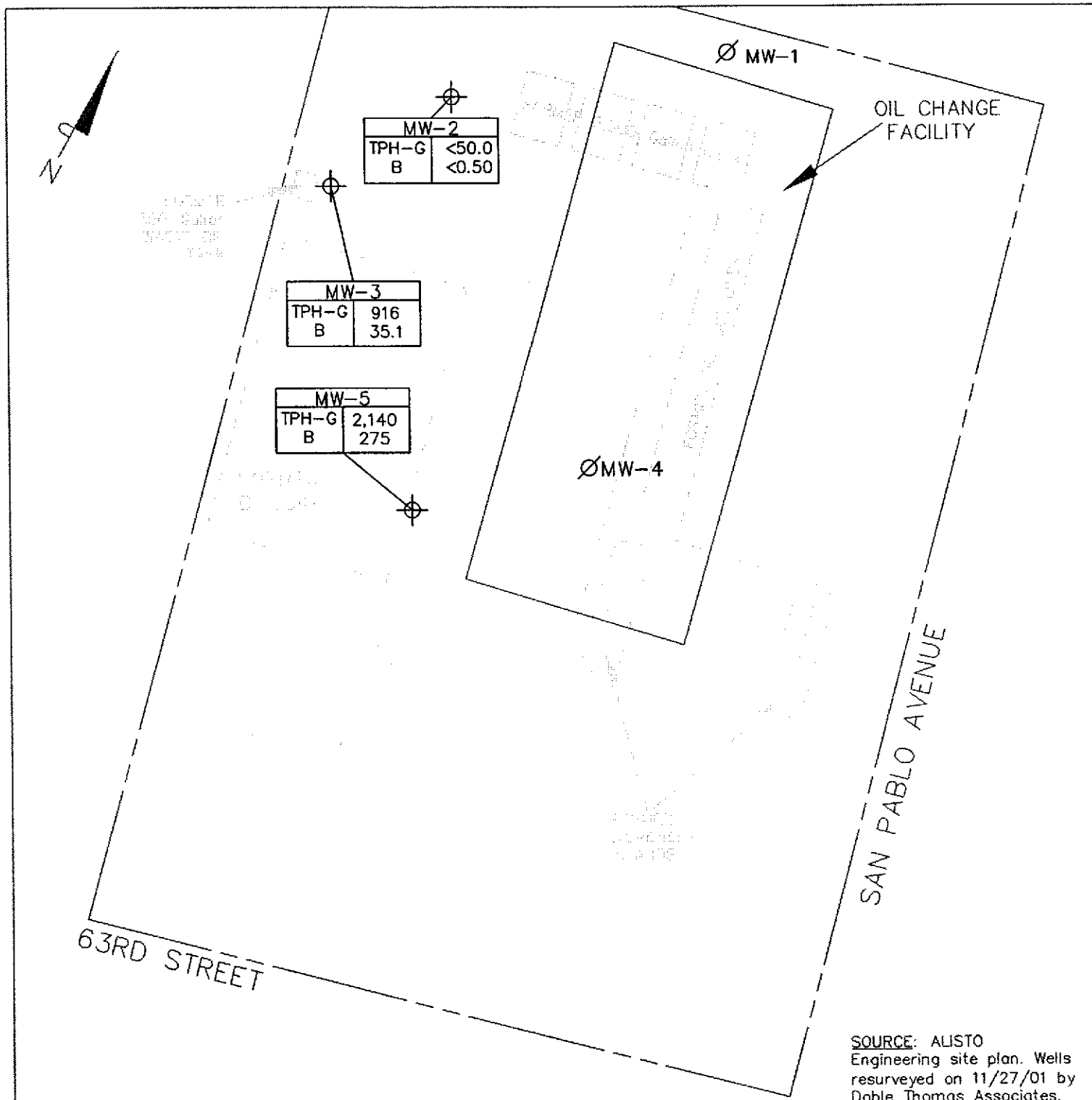
- MW-2 Monitoring Well Showing Groundwater Elevation 35.51 (Feet Relative to Mean Sea Level - NGVD-1929)
- Destroyed Well
- 33 Groundwater Elevation Contour Line
- General Direction of Groundwater Gradient

NOTES: Contour lines are interpretive based on fluid-level measurements taken on April 10, 2002. Contour interval = 1 foot.

**GROUNDWATER ELEVATION
CONTOUR MAP
April 10, 2002**

Former Mobil Station 99-105
6301 San Pablo Avenue
Oakland, California

TRC **FIGURE 2**



SOURCE: ALISTO
 Engineering site plan. Wells
 resurveyed on 11/27/01 by
 Doble Thomas Associates.



LEGEND							
	Monitoring Well Showing						
<table border="1"><tr><th colspan="2">MW-3</th></tr><tr><td>TPH-G</td><td></td></tr><tr><td>B</td><td></td></tr></table>	MW-3		TPH-G		B		Dissolved-Phase Hydrocarbon
MW-3							
TPH-G							
B							
	Concentrations for TPH-G and						
	Benzene (ppb)						

NOTES:
 Hydrocarbon concentrations are based on results of laboratory samples collected on April 10, 2002. TPH-G = total petroleum hydrocarbons as gasoline; B = benzene; ppb = parts per billion; < = not detected at or above the stated method detection limit.

DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS
April 10, 2002
 Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

TRC **FIGURE 3**

EXHIBIT 4

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

FLUID-LEVEL MONITORING

Fluid levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured to the nearest 0.01 foot relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city benchmark.

GROUNDWATER SAMPLING

Currently, 'pre-purge' and 'non-purge' methods of sampling both comply with regulatory standards.

NON-PURGE METHOD:

TRC utilizes the 'non-purge' method of sampling for all qualifying groundwater monitoring wells. Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

The following criteria necessary for a well to qualify for 'non-purge' sampling are taken from a letter issued by San Francisco Bay Regional Water Quality Control Board on January 31, 1997:

1. The non-purging approach shall be used only for monitoring wells where groundwater has been impacted by petroleum hydrocarbons, BTEX, and MTBE.
2. Non-purge sampling shall be utilized for unconfined aquifers only.
3. The monitoring well shall be properly permitted, constructed (in this case, screened across the water table), and developed.
4. The well is presently in use for groundwater or soil vapor extraction.
5. The well does not contain free product.
6. For new wells or wells brought into monitoring for the first time, the first round of groundwater sampling performed at a site shall be with both non-purged and purged samples. The purging and sampling method used shall be documented. This shall include the rate of purge and sampling

details. For these wells we require measurements of dissolved oxygen, specific conductance, pH, and temperature whether purged or not purged. Also, if biodegradation is being tracked at the well, our requirements do not preclude the measurement of other parameters.

7. Existing wells which have already been routinely purged in previous sampling events immediate to being switched to a non-purging mode do not require an initial duplicate non-purged and purged sample.
8. Monitoring data frequency shall be as required by the appropriate regulatory oversight agency.
9. Should site closure be requested where the non-purged approach has been used, the final confirmation sampling event shall include both non-purged and purged samples from each well or as agreed upon with the appropriate regulatory oversight agency.

PURGE METHOD:

Groundwater monitoring wells that do not qualify for the 'non-purge' method are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of groundwater prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is either pumped directly into a licensed vacuum truck or temporarily stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

EXHIBIT 5
MONITORING WELL SAMPLING FORMS

FLUID MEASUREMENT FIELD FORM

Project No.: 41012376
 Station No.: 99-105

TRC Alton Personnel: J. Chidester
 Date: 4/10/02

Well Number	Screen Interval	Depth to Water	Depth to Product	Free Product Thickness (ft)	Free Product Recovery	Total Depth	Dissolved O ₂ (mg/L)	Comments
MW-2		6.18				18.90		4" Replaced Broken Cap
MW-3		10.14				18.46		4" Replaced Missing Lock
MW-5		7.20				20.53		4"

GROUND WATER SAMPLING FIELD NOTES

Site: 99-105 Project No.: 41012376 Sampled By: J. Chidester Date: 4/10/02

Well No. MW-2 Purge Method: 2" electric
 Total Depth (feet) 18.90 Depth to Product (feet): -
 Depth to Water (feet): 6.48 Product Recovered (gallons): -
 Water Column (feet): 12.42 Casing Diameter (Inches): 4"
 80% Recharge Depth (feet): 5.96 1 Well Volume (gallons): 3.07

Well No. MW-3 Purge Method: 2" electric
 Total Depth (feet) 18.46 Depth to Product (feet): -
 Depth to Water (feet): 10.14 Product Recovered (gallons): -
 Water Column (feet): 8.32 Casing Diameter (Inches): 4"
 80% Recharge Depth (feet): 11.80 1 Well Volume (gallons): 5.11

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
956				0.59	55.2	7.68
				0.59	55.3	6.92
	1003			0.55	55.1	6.90
Total Purged			24	Time Sampled		128

Comments:
Turbidity=

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
1017				1.13	56.0	6.82
				1.14	55.7	6.56
	1025			1.20	53.3	6.50
Total Purged			16	Time Sampled		1340

Comments:
Turbidity=

Well No. MW-5 Purge Method: 2" electric
 Total Depth (feet) 24.53 Depth to Product (feet): -
 Depth to Water (feet): 7.20 Product Recovered (gallons): -
 Water Column (feet): 13.33 Casing Diameter (Inches): 4"
 80% Recharge Depth (feet): 9.57 1 Well Volume (gallons): 3.00

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
1036				1.18	57.2	6.90
				1.15	57.0	6.71
	1049			1.14	56.9	6.65
Total Purged			26	Time Sampled		1250

Comments: Rain Dry @ 22
Turbidity=

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
Total Purged				Time Sampled		

Comments:
Turbidity=

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
Total Purged				Time Sampled		

Comments:
Turbidity=

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
Total Purged				Time Sampled		

Comments:
Turbidity=

EXHIBIT 6
ANALYTICAL LABORATORY DATA SHEETS

TestAmerica

INCORPORATED

4/22/02

TRC ALTON 3879
KATHRYN QUINNELL
5052 COMMERCIAL CIRCLE
CONCORD, CA 94520

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 99-105 99-105. The Laboratory Project number is 280068. An executed copy of the chain of custody and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Page 1 Collection Date
MW-2	02-A58944	4/10/02
MW-3	02-A58945	4/10/02
MW-5	02-A58946	4/10/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: 

Report Date: 4/19/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Jennifer P. Flynn, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 01168CA

ANALYTICAL REPORT

TRC ALTON 3879
 KATHRYN QUINNELL
 5052 COMMERCIAL CIRCLE
 CONCORD, CA 94520

Lab Number: 02-A58944
 Sample ID: MW-2
 Sample Type: Water
 Site ID:

Project: 99-105
 Project Name: 99-105
 Sampler: JAMES CHIDESTER

Date Collected: 4/10/02
 Time Collected: 12:25
 Date Received: 4/12/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/l	0.50	1	4/18/02	1:58	A. Cobbs	8021B	3130
Ethylbenzene	ND	ug/l	0.50	1	4/18/02	1:58	A. Cobbs	8021B	3130
Toluene	ND	ug/l	0.50	1	4/18/02	1:58	A. Cobbs	8021B	3130
Xylenes (Total)	ND	ug/l	0.50	1	4/18/02	1:58	A. Cobbs	8021B	3130
Methyl-t-butylether	1.80	ug/l	0.50	1	4/18/02	1:58	A. Cobbs	8021B	3130
TPH (Gasoline Range)	ND	ug/l	50.0	1	4/18/02	1:58	A. Cobbs	8015B/5030	3130

MTBE confirmed by GC/MS Method 8260 @ <0.5 ug/l

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	100.	67. - 135.

LABORATORY COMMENTS:

ND - Not detected at the report limit.
 B - Analyte was detected in the method blank.
 J - Estimated Value below Report Limit.
 # - Recovery outside Laboratory historical or method prescribed limits.
 MTBE confirmed by GC/MS Method 8260 @ <0.5 ug/l

End of Sample Report.

ANALYTICAL REPORT

TRC ALTON 3879
 KATHRYN QUINNELL
 5052 COMMERCIAL CIRCLE
 CONCORD, CA 94520

Lab Number: 02-A58945
 Sample ID: MW-3
 Sample Type: Water
 Site ID:

Project: 99-105
 Project Name: 99-105
 Sampler: JAMES CHIDESTER

Date Collected: 4/10/02
 Time Collected: 12:40
 Date Received: 4/12/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	35.1	ug/l	0.50	1	4/18/02	16:47	A. Cobbs	8021B	6114
Ethylbenzene	22.5	ug/l	0.50	1	4/18/02	16:47	A. Cobbs	8021B	6114
Toluene	3.00	ug/l	0.50	1	4/18/02	16:47	A. Cobbs	8021B	6114
Xylenes (Total)	13.8	ug/l	0.50	1	4/18/02	16:47	A. Cobbs	8021B	6114
Methyl-t-butylether	11.2	ug/l	0.50	1	4/18/02	16:47	A. Cobbs	8021B	6114
TPH (Gasoline Range)	916.	ug/l	50.0	1	4/18/02	16:47	A. Cobbs	8015B/5030	6114

MTBE confirmed by GC/MS Method 8260 @ <0.5 ug/l

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	96.	67. - 135.

LABORATORY COMMENTS:

ND - Not detected at the report limit.
 B - Analyte was detected in the method blank.
 J - Estimated Value below Report Limit.
 # - Recovery outside Laboratory historical or method prescribed limits.
 MTBE confirmed by GC/MS Method 8260 @ <0.5 ug/l

End of Sample Report.

ANALYTICAL REPORT

TRC ALTON 3879
 KATHRYN QUINNELL
 5052 COMMERCIAL CIRCLE
 CONCORD, CA 94520

Lab Number: 02-A58946
 Sample ID: MW-5
 Sample Type: Water
 Site ID:

Project: 99-105
 Project Name: 99-105
 Sampler: JAMES CHIDESTER

Date Collected: 4/10/02
 Time Collected: 12:50
 Date Received: 4/12/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	275.	ug/l	2.50	5	4/18/02	17:16	A. Cobbs	8021B	6114
Ethylbenzene	183.	ug/l	2.50	5	4/18/02	17:16	A. Cobbs	8021B	6114
Toluene	8.00	ug/l	2.50	5	4/18/02	17:16	A. Cobbs	8021B	6114
Xylenes (Total)	24.5	ug/l	2.50	5	4/18/02	17:16	A. Cobbs	8021B	6114
Methyl-t-butylether	ND	ug/l	2.50	5	4/18/02	17:16	A. Cobbs	8021B	6114
TPH (Gasoline Range)	2140	ug/l	250.	5	4/18/02	17:16	A. Cobbs	8015B/5030	6114

MTBE result confirmed by GC/MS method 8260 @ <2.5 ug/l

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	79.	67. - 135.

LABORATORY COMMENTS:

ND - Not detected at the report limit.
 B - Analyte was detected in the method blank.
 J - Estimated Value below Report Limit.
 # - Recovery outside Laboratory historical or method prescribed limits.
 MTBE result confirmed by GC/MS method 8260 @ <2.5 ug/l

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 99-105
Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Benzene	mg/l	< 0.0005	0.0525	0.0500	105	82. - 125.	3130	BLANK
Benzene	mg/l	< 0.0005	0.0525	0.0500	105	82. - 125.	6114	BLANK
Toluene	mg/l	< 0.00050	0.04800	0.05000	96	77. - 121.	3130	BLANK
Toluene	mg/l	< 0.00050	0.04800	0.05000	96	77. - 121.	6114	BLANK
Ethylbenzene	mg/l	< 0.00050	0.04530	0.05000	91	76. - 128.	3130	BLANK
Ethylbenzene	mg/l	< 0.00050	0.04530	0.05000	91	76. - 128.	6114	BLANK
Xylenes (Total)	mg/l	< 0.00050	0.08940	0.1000	89	79. - 125.	3130	BLANK
Xylenes (Total)	mg/l	< 0.00050	0.08940	0.1000	89	79. - 125.	6114	BLANK
Methyl-t-butylether	mg/l	< 0.00050	0.04890	0.05000	98	71. - 128.	3130	BLANK
Methyl-t-butylether	mg/l	< 0.00050	0.05360	0.05000	107	71. - 128.	6114	BLANK
TPH (Gasoline Range)	mg/l	< 0.0500	0.964	1.00	96	72. - 126.	3130	BLANK
TPH (Gasoline Range)	mg/l	< 0.0500	0.964	1.00	96	72. - 126.	6114	BLANK
BTEX/GRO Surr., a,a,a-TFT	% Recovery				89	67. - 135.	3130	
BTEX/GRO Surr., a,a,a-TFT	% Recovery				89	67. - 135.	6114	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.0525	0.0512	2.51	13.	3130
Benzene	mg/l	0.0525	0.0512	2.51	13.	6114
Toluene	mg/l	0.04800	0.04660	2.96	13.	3130
Toluene	mg/l	0.04800	0.04660	2.96	13.	6114
Ethylbenzene	mg/l	0.04530	0.04400	2.91	13.	3130
Ethylbenzene	mg/l	0.04530	0.04400	2.91	13.	6114
Xylenes (Total)	mg/l	0.08940	0.08590	3.99	13.	3130
Xylenes (Total)	mg/l	0.08940	0.08590	3.99	13.	6114
Methyl-t-butylether	mg/l	0.04890	0.04930	0.81	12.	3130
Methyl-t-butylether	mg/l	0.05360	0.05390	0.56	12.	6114

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 99-105
Page: 2

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
TPH (Gasoline Range)	mg/l	0.964	0.859	11.52	20.	3130
TPH (Gasoline Range)	mg/l	0.964	0.859	11.52	20.	6114
BTEX/GRO Surr., a,a,a-TFT	% Recovery		89.			3130
BTEX/GRO Surr., a,a,a-TFT	% Recovery		89.			6114

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.1000	0.1012	101	82 - 122	3130
Benzene	mg/l	0.1000	0.1012	101	82 - 122	6114
Toluene	mg/l	0.1000	0.09340	93	77 - 119	3130
Toluene	mg/l	0.1000	0.09340	93	77 - 119	6114
Ethylbenzene	mg/l	0.1000	0.08870	89	76 - 125	3130
Ethylbenzene	mg/l	0.1000	0.08870	89	76 - 125	6114
Xylenes (Total)	mg/l	0.2000	0.1732	87	73 - 123	3130
Xylenes (Total)	mg/l	0.2000	0.1732	87	73 - 123	6114
Methyl-t-butylether	mg/l	0.1000	0.09590	96	71 - 126	3130
Methyl-t-butylether	mg/l	0.1000	0.1050	105	71 - 126	6114
TPH (Gasoline Range)	mg/l	1.00	0.964	96	75 - 126	3130
TPH (Gasoline Range)	mg/l	1.00	0.964	96	75 - 126	6114
BTEX/GRO Surr., a,a,a-TFT	% Recovery			86	67 - 135	3130
BTEX/GRO Surr., a,a,a-TFT	% Recovery			86	67 - 135	6114

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.0005	mg/l	3130	4/17/02	15:29

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 99-105
Page: 3

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzene	< 0.0005	mg/l	6114	4/18/02	12:54
Toluene	< 0.00050	mg/l	3130	4/17/02	15:29
Toluene	< 0.00050	mg/l	6114	4/18/02	12:54
Ethylbenzene	< 0.00050	mg/l	3130	4/17/02	15:29
Ethylbenzene	< 0.00050	mg/l	6114	4/18/02	12:54
Xylenes (Total)	< 0.00050	mg/l	3130	4/17/02	15:29
Xylenes (Total)	< 0.00050	mg/l	6114	4/18/02	12:54
Methyl-t-butylether	< 0.00050	mg/l	3130	4/17/02	15:29
Methyl-t-butylether	< 0.00050	mg/l	6114	4/18/02	12:54
TPH (Gasoline Range)	< 0.0500	mg/l	3130	4/17/02	15:29
TPH (Gasoline Range)	< 0.0500	mg/l	6114	4/18/02	12:54

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
BTEX/GRO Surr., a,a,a-TFT	105.	% Recovery	3130	4/17/02	15:29
BTEX/GRO Surr., a,a,a-TFT	95.	% Recovery	6114	4/18/02	12:54

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 280068

CHAIN OF CUSTODY RECORD



Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404



Consultant Name: TRC
 Address: 5052 Commercial Circle
 City/State/Zip: Concord, CA 94520
 ExxonMobil Project Mgr: Gene Ortega
 Telephone Number: 925-688-1260 Fax No.: 925-688-0385
 Sampler Name: (Print) James Chidester
 Sampler Signature: [Signature]
 Report To: Kathryn Quinell (TRC)
 Invoice To: (ExxonMobil PM unless otherwise indicate)
 Account #: 3879
 PO #: 4501668059
 Facility ID #: 99-105
 Site Address: 6301 San Pablo Ave.
 City, State Zip: Oakland, CA 94608

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative								Matrix				Analyze For:			RUSH TAT (Pre-Schedule) TAT request (in Bus. Day)	STD TAT	Fax Results					
							Ice	HNO ₃ (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	BTEX (P200)				MTBE *	TPH-G (B015)			
58946 MW-2	4/10/02	1225	4	X			X	X										X	X	X							X		
95 MW-3	↓	1240	↓	↓			↓	↓										↓	↓	↓							↓		
58946 MW-5	↓	1250	↓	↓			↓	↓										↓	↓	↓							↓		

Special Instructions: * Confirm highest MTBE by 8260
Please report with hardcopy of EDD Format

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	<u>4/11/02</u>	<u>1000</u>			
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			<u>[Signature]</u>	<u>4/11/02</u>	<u>9:00</u>

Laboratory Comments:
 Temperature Upon Receipt: 20
 Sample Containers Intact? Y N
 VOCs Free of Headspace? Y N

TESTAMERICA, INC.

COOLER RECEIPT FORM

Client: TRC BC# 280098

Cooler Received On: 4/12/87 And Opened On: 4/12/87 By: Mark Beasley

M. Beasley
(Signature)

1. Temperature of Cooler when opened 20 DEGREES CELSIUS
2. Were custody seals on outside of cooler and intact?..... YES NO
 - a. If yes, what kind and where: TAPE 2 Front
 - b. Were the signature and date correct?..... YES NO
3. Were custody seals on containers intact?..... YES NO
4. Were custody papers inside cooler?..... YES NO
5. Were custody papers properly filled out (ink, signed, etc)?..... YES NO
6. Did you sign the custody papers in the appropriate place?..... YES NO
7. What kind of packing material was used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)?..... YES NO
9. Did all bottles arrive in good condition (unbroken)?..... YES NO
10. Were all bottle labels complete (#, date, signed, pres, etc)?..... YES NO
11. Did all bottle labels and tags agree with custody papers?..... YES NO
12. Were correct bottles used for the analysis requested?..... YES NO
13. If present, was any observable VOA headspace present?..... YES NO
14. If present, were VOA vials checked for absence of air bubbles and noted if found?..... YES NO
15. Was sufficient amount of sample sent in each bottle?..... YES NO
16. Were correct preservatives used?..... YES NO
17. Was residual chlorine present (if appropriate)?..... YES NO
18. Corrective action taken, if necessary:
 - a. Name of person contacted: SEE ATTACHED FOR RESOLUTION IF NEEDED
 - b. Date: _____

EXHIBIT 7
WASTE MANIFEST
TO BE SUBMITTED UPON RECEIPT