R0300?

GETTLER-RYAN INC.

June 5, 2001
G-R Job #280036

Mr. Nick Nickerson
Unocal - DBG/AMG
8788 Elk Grove Boulevard
Building 3, Suite 15
Elk Grove, California 95624

RE: Groundwater Monitoring & Sampling - Special Event of May 31, 2001
Former Unocal Service Station #2512
1300 Davis Street
San Leandro, California

Dear Mr. Nickerson:

This letter report documents the groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R), pursuant to a letter request dated May 22, 2001, from Alameda County Health Care Services. On May 31, 2001, field personnel monitored and sampled one well (MW-DC) which is located next to the above referenced site. A Depth to Water/Concentration Map is included as Figure 1.

A static groundwater level was measured and the well was checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the well. Static water level data and field sampling parameters are presented in the attached Field Data Sheet.

A groundwater sample was collected from the monitoring well as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The sample was analyzed by Sequoia Analytical. The chain of custody document and laboratory analytical reports are also attached.

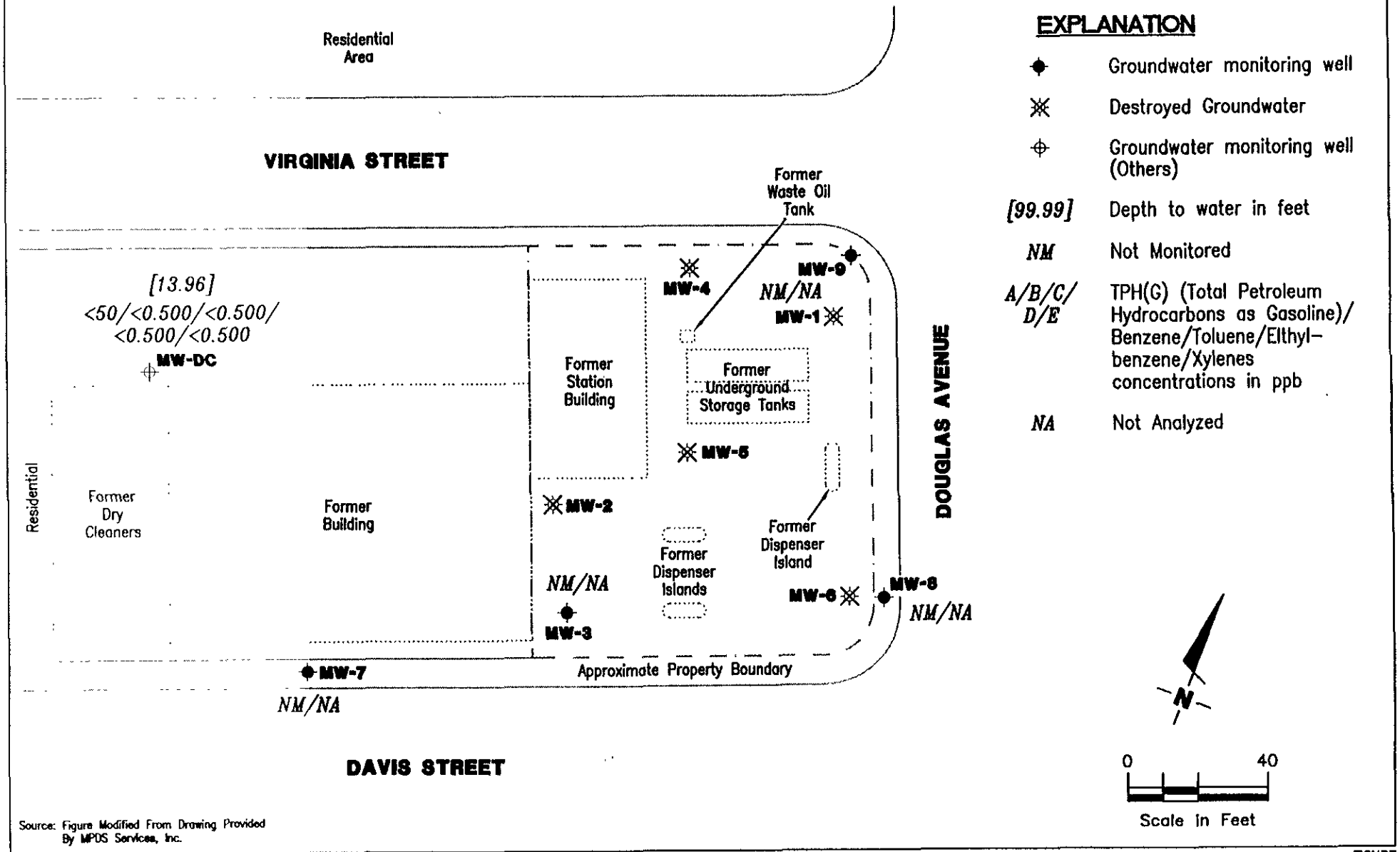
Sincerely,

Deanna L. Harding
Project Coordinator

Figure 1: Depth to Water/Concentration Map
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheet
Chain of Custody Document and Laboratory Analytical Reports

cc Mr. Amir K. Gholami, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94502
Mr. Mike Bakaldin, City of San Leandro, Environmental Services Division, 835 East 14th Street, San Leandro, CA 94577
Mr. Chuck Headlee, SF-RWQCB, 1515 Clay Street, Suite 1400, Oakland, CA 94612
Ms. Leah S. Goldberg, Hanson Bridgett, 333 Market Street, Suite 2300, San Francisco, CA 94105-2173
Mr. Stephen J. Carter, Gettler-Ryan, Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670

2512.dm



Source: Figure Modified From Drawing Provided By MPDS Services, Inc.

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

DEPTH TO WATER/CONCENTRATION MAP
Former Unocal Service Station #2512
1300 Davis Street
San Leandro, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
280036		May 31, 2001	

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4□C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Unocal Corporation, the purge water and decontamination water generated during sampling activities is transported to Tosco - San Francisco Area Refinery, located in Rodeo, California.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # 2512 Job#: 280036

Address: 1300 Davis st. Date: 5-31-01

City: San Leandro Sampler: Joe

Well ID MW-DC Well Condition: Damaged. See notes below

Well Diameter 8 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 24.50 ft.

Depth to Water 13.96 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

10.54 x VF 2.60 = 27.4 X 3 (case volume) = Estimated Purge Volume: 82 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, ~~Suction~~, Grundfos, Other:

Sampling Equipment: ~~Disposable Bailer~~, Bailer, Pressure Bailer, Grab Sample, Other:

Starting Time: 1:15 Weather Conditions: Hot

Sampling Time: 1:55 p.m. (1:55) Water Color: clear Odor: none

Purging Flow Rate: ~~3.8~~ gpm. Sediment Description:

Did well de-water? If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity (mmhos/cm)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1:32	27	6.98	3.81	70.2			
1:37	56	7.10	3.82	70.1			
1:45	82	7.12	4.01	70.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-DC	3 VOA	Y	HCL	Seq.	TPHG, BTEX, ~~MTBE~~

COMMENTS: Well box is damaged; cover is loose; collar is shattered; casing rim (metal) is corroded & bent. Over-all well is exposed to the elements and not secured.

See enclosed picture

UNOCAL 76

☐ 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600
☐ 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200
☐ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
☐ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9600

Consultant Company: Gettler-Ryan Inc.	Project Name: Former Unocal #2512
Address: 6747 Sierra ct. Suite J	UNOCAL Project Manager: M. B. Boust
City: Dublin State: CA Zip Code: 94568	AFE #:
Telephone: (925) 551-7555 FAX #: (925) 551-7899	Site #, City, State: 1300 Davis st. San Leandro
Report To: Deanne Harding Sampler: Joe Ajemian	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☒ 1 Work Day ☐ 2-8 Hours

CODE: ☐ Misc. ☐ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

☐ Drinking Water ☐ Waste Water ☐ Other

Analyses Requested

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPHG, BTEX	TPHD	TOG						Comments
1.	TB-LB	5-31-01	W	1	VOA		✓								Please don't bill
2.	MW-DC	" 13:55	"	3	VOA		✓								TB-LB analyses.
3.															
4.															24 hr.
5															TAT
6															
7.															
8															
9															
10															

Relinquished By: [signature]	Date: 5-31-01	Time: 16:00	Received By: [signature]	Date: 5/31/01	Time: 1600
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page __ of __

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Laboratory

White - Laboratory

Sequoia
Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

June 01 , 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Unocal(1) / L105220

Enclosed are the results of analyses for samples received by the laboratory on 05/31/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate Number 2360

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Unocal(1) Project Number: Former Unocal #2512, San Leandro Project Manager: Deanna Harding	**Reported:** 06/01/01 13:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L105220-01	Water	05/31/01 00:00	05/31/01 16:00
MW-DC	L105220-02	Water	05/31/01 13:55	05/31/01 16:00

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Unocal(1) Project Number: Former Unocal #2512, San Leandro Project Manager: Deanna Harding	Reported: 06/01/01 13:18

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L105220-01) Water Sampled: 05/31/01 00:00 Received: 05/31/01 16:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1060002	06/01/01	06/01/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.4 %*	*60-140*		"	"	"	"	
MW-DC (L105220-02) Water Sampled: 05/31/01 13:55 Received: 05/31/01 16:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1060002	06/01/01	06/01/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.5 %*	*60-140*		"	"	"	"	

Gettler-Ryan/Geostrategies(1)	Project: Unocal(1)	
6747 Sierra Court, Suite J	Project Number: Former Unocal #2512, San Leandro	Reported:
Dublin CA, 94568	Project Manager: Deanna Harding	06/01/01 13:18

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1060002 - EPA 5030B (P/T)										
Blank (1060002-BLK1)				Prepared & Analyzed: 06/01/01						
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Surrogate: a,a,a-Trifluorotoluene	*8.67*		"	*10.0*		*86.7*	*60-140*			
LCS (1060002-BS1)				Prepared & Analyzed: 06/01/01						
Benzene	7.73	0.500	ug/l	10.0		77.3	70-130			
Toluene	7.72	0.500	"	10.0		77.2	70-130			
Ethylbenzene	7.70	0.500	"	10.0		77.0	70-130			
Xylenes (total)	23.4	0.500	"	30.0		78.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.24*		"	*10.0*		*92.4*	*60-140*			
LCS (1060002-BS2)				Prepared & Analyzed: 06/01/01						
Purgeable Hydrocarbons as Gasoline	251	50.0	ug/l	250		100	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.13*		"	*10.0*		*91.3*	*60-140*			

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Unocal(1) Project Number: Former Unocal #2512, San Leandro Project Manager: Deanna Harding	**Reported:** 06/01/01 13:18

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference