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July 15, 2005

Ms. Kasey Ashley
North Coast Water Board
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 94503-2097

RE: Semi-Annual Reporting of Quarterly Groundwater Monitoring Results, First and Second Quarters 2005
Former Unocal Bulk Plant No. 762248
359 Main Street, Fortuna, California
RWQCB No. 1NHU248

Dear Ms. Ashley:

ENSR Corporation (ENSR) has been authorized by Union Oil Company of California (Unocal) to perform quarterly groundwater monitoring at the site located at 359 Main Street, Fortuna, California (Site) (**Figure 1**). The Site, a former bulk plant, is currently vacant with a chain link fence around its perimeter. The locations of former and current Site features are illustrated on **Figure 2**. Quarterly groundwater monitoring is intended to evaluate the distribution of petroleum hydrocarbon constituents in groundwater beneath the Site. This report summarizes results of the samples collected from the Site during the first and second quarter of 2005. The work was performed in accordance with the field methods and procedures included in **Appendix A**.

Groundwater Level Measurements

Depths to groundwater were measured on February 8 and May 18, 2005 in monitoring wells MW-1 through MW-10, MW-13 through MW-15, MW-16A, MW-16B, and MW-17 to MW-21 and are presented in **Table 1**. Groundwater elevation measurements were used to construct two groundwater elevation contour maps, one for the water table (shallow zone) and one for a deeper aquifer (deep zone), and are included as **Figure 3** and **Figure 4**, respectively, for February 8, 2005 and **Figure 5** and **Figure 6**, respectively, for May 18, 2005. The groundwater flow direction was toward the south with a hydraulic gradient of approximately 0.02 feet per foot (ft/ft) in the shallow zone and toward the northeast, southeast, and south, in a radial direction from MW-1, with a hydraulic gradient of approximately 0.002 ft/ft in the deep zone for the February 8, 2005 monitoring event. For the May 18, 2005 monitoring event, the groundwater flow direction was toward the south with a hydraulic gradient of approximately 0.02 ft/ft in the shallow zone and toward the northeast, southeast, and south, in a radial direction from MW-1, with a hydraulic gradient of approximately 0.002, 0.001 and 0.005 ft/ft, respectively, in the deep zone. Copies of the groundwater sampling information sheets are included in **Appendix B**. A summary of groundwater elevations measured to date is presented in **Table 1**.

First Quarter 2005 Groundwater Sampling and Analytical Results

On February 8, 2005, first quarter 2005 groundwater samples were collected from monitoring wells MW-1 through MW-10, MW-13 through MW-15, MW-16A, MW-16B, and MW-17 to MW-21. Groundwater samples were submitted to California Laboratory Services (CLS) in Rancho Cordova, California (a state-certified laboratory) under chain of custody protocol. Samples from MW-1, MW-3 through MW-6, MW-13 through MW-15, MW-16A, MW-16B, and MW-17 to MW-21 were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B, and total petroleum hydrocarbons as gasoline (TPHg). Samples from MW-1 through MW-10, MW-13 through MW-15, MW-16A, MW-16B, and MW-17 to MW-21 were analyzed for total petroleum hydrocarbons as diesel (TPHd) by EPA Method 8015M with silica gel treatment (SGT) by EPA Method 3630. Cumulative groundwater sampling results are summarized in **Table 1**. A map depicting dissolved concentrations of TPHd, TPHg, and benzene in groundwater for first quarter 2005 is included as **Figure 7**. TPHd concentrations are those reported for analysis using SGT. A copy of the certified laboratory analytical report with chain-of-custody documentation is included in **Appendix C**.

Second Quarter 2005 Groundwater Sampling and Analytical Results

On May 18, 2005, second quarter groundwater samples were collected from monitoring wells MW-13 through MW-15, MW-16A, MW-16B, and MW-17 to MW-21. Groundwater samples were submitted to CLS under chain of custody protocol. Samples were analyzed for BTEX by EPA Method 8021B, TPHg by EPA Method 8015M, and TPHd by EPA Method 8015M with SGT by EPA Method 3630.

Cumulative groundwater sampling results are summarized in **Table 1**. A map depicting dissolved concentrations of TPHd, TPHg, and benzene in groundwater for second quarter 2005 is included as **Figure 8**. TPHd concentrations are those reported for analysis using SGT. A copy of the certified laboratory analytical report with chain-of-custody documentation is included in **Appendix C**.

Conclusions/Recommendations

TPHd was detected in monitoring wells MW-3, MW-4, MW-5, MW-6, MW-13, MW-16A, MW-18, MW-19, MW-20, and MW-21 (screened across the water table aquifer) with a maximum concentration of 4,500 micrograms per liter (µg/L) in MW-13. TPHg and benzene were detected in monitoring wells MW-3, MW-4, MW-5, MW-6, MW-13, MW-16A, MW-18, MW-19, MW-20, and MW-21 with a maximum TPHg concentration of 32,000 µg/L in MW-4 and a maximum benzene concentration of 6,500 µg/L in MW 18.

Of the five monitoring wells screened across the deep aquifer (MW-1, MW-14, MW-15, MW-16B, and MW-17) TPHd, TPHg, and benzene continue to be detected in MW-1. TPHd, TPHg, and benzene were detected at concentrations of 87 µg/L, 510 µg/L, and 14 µg/L, respectively, in the first quarter. In MW-17, TPHd, TPHg, and benzene were detected at concentrations of 53 µg/L, 60 µg/L, and 3 µg/L, respectively, which are just above the laboratory reporting limits. TPHd,

TPHg, and benzene were not detected at or above laboratory reporting limits in monitoring wells MW-14, MW-15, and MW-16B.

The monitoring and sampling of groundwater at the Site should continue.

Future Work

The next semi-annual monitoring report will be submitted on or before January 15, 2006 and will cover the quarterly monitoring events scheduled for August and November 2005.

On May 27, 2005, ENSR submitted a Corrective Action Plan (CAP) to the North Coast Water Board (NCWB) dated May 2005. The CAP outlined remedial action alternatives to address the Site conditions and residual contamination impacts. Pending approval of the CAP from the NCWB, ENSR anticipates implementation of the CAP alternatives in August 2005.

Remarks/Signatures

The interpretations in this report represent our professional opinions and are based, in part, on the information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact Jennifer Johnston at (916) 362-7100.

Sincerely,
ENSR Corporation

Jennifer A. Johnston

Jennifer Johnston
Project Manager

John M. Warren

John M. Warren, R.C.E. 34168
Senior Program Manager

JJ/dk

Reference: 06940-407-100

REGISTERED PROFESSIONAL ENGINEER
JOHN MICHAEL WARREN
C 034168
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CIVIL
STATE OF CALIFORNIA

Attachments
Table:
1. Groundwater Monitoring Data and Analytical Results

Figures:
1. Site Location Map
2. Site Map
3. Shallow Groundwater Elevation Contour (February 8, 2005)
4. Deep Groundwater Elevation Contour (February 8, 2005)
5. Shallow Groundwater Elevation Contour (May 18, 2005)
6. Deep Groundwater Elevation Contour (May 18, 2005)
7. Petroleum Hydrocarbon Concentration Map (February 8, 2005)
8. Petroleum Hydrocarbon Concentration Map (May 18, 2005)

Appendices:
A Groundwater Monitoring Standard Operating Procedures
B Groundwater Monitoring – Field Documentation
C Groundwater Monitoring – Laboratory Analytical Report and Chain of Custody Documentation

cc: Mr. John Frary, Union Oil Company of California
Mr. Mark Verhey, Humboldt County
Mr. Larry Montgomery

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-1												
45.62	03/26/91	23.66	21.96	0.00	ND	5,600	200	750	150	1,100	--	--
	05/01/91	24.54	21.08	0.00	--	--	--	--	--	--	--	--
	07/08/91	25.89	19.73	0.00	ND	150	40	ND	4.0	5.1	--	--
	10/21/91	26.90	18.72	0.00	ND	400	86	5.4	5.3	15	--	--
	01/23/92	26.29	19.33	0.00	ND	390	5.7	6.8	1.6	2.9	--	--
	05/01/92	25.15	20.47	0.00	ND	3,300	1,500	570	190	490	--	--
	07/02/92	26.77	18.85	0.00	--	--	--	--	--	--	--	--
	07/17/92	26.95	18.67	0.00	120	60	10	1.7	ND	1.6	--	--
	10/02/92	27.79	17.83	0.00	ND	60	1.0	1.4	ND	0.7	--	ND[3]
	03/03/93	23.48	22.14	0.00	ND	11,000	1,200	410	94	490	--	ND[3]
	06/22-23/93	24.54	21.08	0.00	1,500	3,800	1,300	210	120	390	--	--
	09/22-23/93	26.90	18.72	0.00	450	58	ND	ND	ND	ND	--	--
	12/22/93	26.45	19.17	0.00	68[7]	56	1.9	4.2	4.3	16	--	--
	03/28-29/94	25.40	20.22	0.00	150	ND	0.72	0.54	ND	1.1	--	--
	06/23-24/94	26.43	19.19	0.00	650[7]	2,500	1,100	ND	36	ND	--	--
	09/21/94	27.45	18.17	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/21/94	26.13	19.49	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/02-03/95	24.15	21.47	0.00	190[7]	ND	ND	ND	ND	ND	--	--
	06/01/95	25.05	20.57	0.00	860[7]	3,000	130	20	76	550	--	--
	09/05-06/95	26.65	18.97	0.00	130[8]	ND	ND	ND	ND	ND	--	--
	12/10-11/95	26.62	19.00	0.00	150[8]	ND	ND	ND	ND	ND	--	--
	03/11/96	24.87	20.75	0.00	140	94[9]	0.78	ND	ND	ND	--	--
	06/03-04/96	24.88	20.74	0.00	ND	60[9]	ND	ND	ND	ND	--	--
	09/04-05/96	26.45	19.17	0.00	90[8]	ND	ND	ND	ND	ND	--	--
	12/02-03/96	25.65	19.97	0.00	82	ND	ND	ND	ND	ND	--	--
	03/10-11/97	22.60	23.02	0.00	410[8]	ND	ND	ND	ND	ND	--	--
	06/09-10/97	24.00	21.62	0.00	160	ND	ND	ND	ND	ND	ND	--
	09/08-09/97	25.42	20.20	0.00	ND	ND	ND	ND	ND	ND	--	--

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MW-1	12/03-04/97	23.86	21.76	0.00	160[8]	ND	ND	ND	ND	ND	--	--
(Cont.)	03/23-24/98	19.45	26.17	0.00	140	120	33	1.3	ND	5.1	--	--
	06/07-08/98	22.47	23.15	0.00	220	420	180	ND[11]	ND[11]	4.7	--	--
	09/16/98	24.75	20.87	0.00	170	ND	ND	ND	ND	1.1	ND	--
	12/16/98	23.11	22.51	0.00	150	ND	ND	ND	ND	ND	--	--
	03/23/99	21.31	24.31	0.00	150	530	160	ND[11]	ND[11]	22	ND[22]	--[23]
	06/14/99	23.25	22.37	0.00	210[27]	140	79	ND	ND	0.93	--	--
	09/13-14/99	25.10	20.52	0.00	110[15]	ND	ND	ND	ND	ND	--	--
	12/16/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	03/16-17/00	21.80	23.82	0.00	120[15]	180[28]	73	ND	1.0	7.1	--	--
	06/26-27/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	09/21/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	11/08/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	02/08/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	05/09/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	08/07/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	11/27/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	02/05/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	05/07/02	23.61	22.01	0.00	5,000/3,700[38,43]	560	41	89	3.6	92	--	--
	08/14/02	25.51	20.11	0.00	2,000/1,000[38]	77	<0.50	3.1	<0.50	3.4	--	--
	11/12/02	25.64	19.98	0.00	6,200/91[38]	3,800	160	1,400	34	530	--	--
	02/12/03	22.72	22.90	0.00	5,000/130[38]	2,300	25	400	3.8	410	--	--
45.62	06/09-10/03	23.22	22.40	0.00	4,400/1,700[38]	14,000[45]	1,300[45]	2,800[45]	41[45]	2,700[45]	--	--
	08/14/03	25.00	20.62	0.00	430/150[38]	550	56	9.7	3.6	85	--	--
	12/11/03	24.20	21.42	0.00	1,700	99	2.8	18	1.8	17	--	--
	03/23/04	22.40	23.22	0.00	8,100[49]/470[38,49]	26,000	2,400	6,700	430	4,400	--	--
	08/10/04	25.60	20.02	0.00	270 [49]	310 [50]	40	7.2	7.2	37	--	--
47.41	02/08/05	23.22	24.19	0.00	87 [49]	510	14	90	6.3	150	--	--
	05/18/05	**22.08**	**25.33**	**0.00**	--							

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MW-2												
48.59	03/26/91	7.12	41.47	0.00	ND	ND	ND	ND	ND	ND	--	--
	05/01/91	7.37	41.22	0.00	--	--	--	--	--	--	--	--
	07/08/91	8.28	40.31	0.00	ND	ND	ND	ND	ND	ND	--	--
	10/21/91	10.76	37.83	0.00	ND	ND	ND	0.5	ND	1.0	--	--
	01/23/92	10.36	38.23	0.00	ND	ND	ND	0.5	ND	ND	--	--
	05/01/92	8.80	39.79	0.00	ND	ND	ND	0.9	ND	ND	--	--
	07/02/92	8.77	39.82	0.00	--	--	--	--	--	--	--	--
	07/17/92	8.97	39.62	0.00	ND	ND	ND	ND	ND	ND	--	--
	10/02/92	11.29	37.30	0.00	ND	ND	ND	ND	ND	ND	--	ND
	03/03/93	8.35	40.24	0.00	ND	ND	ND	ND	ND	ND	--	ND
	06/22-23/93	7.20	41.39	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/22-23/93	10.04	38.55	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/22/93	10.45	38.14	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/28-29/94	7.82	40.77	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/23-24/94	8.32	40.27	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/21/94	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	12/21/94	INACCESSIBLE (CONNECTED TO REMEDIATION SYSTEM)					--	--	--	--	--	--
	03/02-03/95	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	06/01/95	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	09/05-06/95	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	12/10-11/95	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	03/11/96	INACCESSIBLE (CONNECTED TO REMEDIATION SYSTEM)					--	--	--	--	--	--
	06/03-04/96	7.48	41.11	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/04-05/96	10.54	38.05	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/02-03/96	10.72	37.87	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/10-11/97	7.13	41.46	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/09-10/97	7.91	40.68	0.00	ND	ND	ND	ND	ND	ND	ND	--
	09/08-09/97	11.39	37.20	0.00	ND	ND	ND	ND	ND	ND	--	--

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MW-2	12/03-04/97	10.09	38.50	0.00	ND	ND	ND	ND	ND	ND	--	--
(Cont.)	03/23-24/98	6.25	42.34	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/07-08/98	6.49	42.10	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/16/98	9.33	39.26	0.00	ND	ND	ND	ND	ND	ND	ND	--
	12/16/98	7.86	40.73	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/23/99	6.22	42.37	0.00	ND	ND	ND	0.54	ND	ND	2.6[22]	--[24]
	06/14/99	7.34	41.25	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/13-14/99[31]	10.18	38.41	0.00	57[15]	ND	ND	ND	ND	ND	--	--
	12/16/99	9.30	39.29	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/16-17/00	6.84	41.75	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/26-27/00	8.21	40.38	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/21/00	10.42	38.17	0.00	ND	ND	ND	ND	ND	ND	--	--
	11/08/00	10.88	37.71	0.00	ND	ND	ND	ND	ND	ND	--	--
	02/08/01	8.22	40.37	0.00	ND	ND	ND	ND	ND	ND	--	--
	05/09/01	7.22	41.37	0.00	ND	ND	ND	ND	ND	ND	--	--
	08/07/01	9.47	39.12	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/27/01	10.53	38.06	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/05/02	7.04	41.55	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	--	--
	05/07/02	7.06	41.53	0.00	[43]670/690[38,43]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	08/14/02	9.35	39.24	0.00	<56	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/12/02	11.19	37.40	0.00	<50[38,44]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/12/03	8.03	40.56	0.00	<56	<50	<0.50	<0.50	<0.50	<0.50	--	--
48.80	06/09-10/03	6.96	41.84	0.00	71/<54[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	08/14/03	9.14	39.66	0.00	<54	<50	<0.50	<0.50	<0.50	<0.50	--	--
	12/11/03	9.75	39.05	0.00	89/88[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	03/23/04	7.05	41.75	0.00	360[49]/170[38,49]	--	--	--	--	--	--	--
	08/10/04	9.95	38.85	0.00	--	--	--	--	--	--	--	--
50.60	02/08/05	7.22	43.38	0.00	<50	--	--	--	--	--	--	--
	05/18/05	**4.73**	**45.87**	**0.00**	--							

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MW-3												
46.59	03/26/91	6.27	40.32	0.00	ND	11,000	1,900	2,600	470	2,200	--	--
	05/01/91	6.93	39.66	0.00	--	--	--	--	--	--	--	--
	07/08/91	7.62	38.97	0.00	ND	10,000	1,600	2,000	330	1,400	--	--
	10/21/91	9.95	36.64	0.00	ND	3,100	550	420	77	470	--	--
	01/23/92	9.20	37.39	0.00	ND	19,000	690	760	180	960	--	--
	05/01/92	6.52	40.07	0.00	ND	11,000	1,700	1,800	450	1,700	--	--
	07/02/92	7.86	38.73	0.00	--	--	--	--	--	--	--	--
	07/17/92	7.95	38.64	0.00	680	4,600	860	800	200	930	--	--
	10/02/92	10.70	35.89	0.00	160[4]	2,000	350	290	52	400	--	ND[5]
	03/03/93	7.12	39.47	Sheen	ND	27,000	820	1,700	320	1,700	--	ND[5]
	06/22-23/93	6.21	40.38	0.00	--	--	--	--	--	--	--	--
	09/22-23/93	9.40	37.19	0.00	--	--	--	--	--	--	--	--
	12/22/93	9.51	37.08	0.00	1,600[7]	9,700	1,500	1,300	300	2,300	--	--
	03/28-29/94	6.78	39.81	Sheen	1,900[7]	19,000	2,300	1,800	530	3,500	--	--
	06/23-24/94	7.42	39.17	0.00	1,700[7]	14,000	1,500	760	400	2,900	--	--
	09/21/94	10.50	36.09	0.00	7,800[7]	13,000	1,000	860	1,800	270	--	--
	12/21/94	INACCESSIBLE (CONNECTED TO REMEDIATION SYSTEM)					--	--	--	--	--	--
	03/02-03/95	1.15	45.44	0.00	490[7]	2,200	ND	9.6	ND	230	--	--
	06/01/95	6.58	40.01	Sheen	17,000[7]	20,000	1,400	3,300	570	4,300	--	--
	09/05-06/95	9.60	36.99	0.00	4,400[8]	26,000	580	740	620	7,200	--	--
	12/10-11/95	9.57	37.02	0.00	200[8]	260	5.8	ND	ND	ND	--	--
	03/11/96	3.11	43.48	0.00	1,300[8]	7,700	36	15	ND	1,700	--	--
	06/03-04/96	7.01	39.58	0.00	1,400[7]	1,000	70	2.8	28	140	--	--
	09/04-05/96	10.00	36.59	0.00	23,000[8]	17,000	87	ND	160	1,400	--	--
	12/02-03/96	9.90	36.69	0.00	1,600[7]	3,200	68	31	75	1,000	--	--
	03/10-11/97	6.35	40.24	0.00	3,000[7]	11,000	190	130	400	2,300	--	--
	06/09-10/97	7.15	39.44	0.00	3,000[7]	10,000	120	ND	140	960	ND	--
	09/08-09/97	11.80	34.79	0.00	450[7]	5,300	100	21	97	580	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-3	12/03-04/97	9.34	37.25	0.00	1,100[7]	6,200	120	ND	57	700	--	--
(Cont.)	03/23-24/98	5.51	41.08	0.00	4,400[10]	4,200	21	ND[11]	20	240	--	--
	06/07-08/98	5.99	40.60	0.00	80[14]	540	10	ND[11]	5.7	41	--	--
	09/16/98	8.68	37.91	0.00	3,400[17]	1,400[18]	26	ND[11]	14	130	ND[11]	--
	12/16/98	7.65	38.94	0.00	9,100[10]	4,200	31	ND[11]	17	170	--	--
	03/23/99	5.65	40.94	0.00	610[21]	1,900	27	2.6	21	130	ND[22]	--[25]
	06/14/99	6.66	39.93	0.00	1,700[21]	3,500	44	ND[11]	20	170	--	--
	09/13-14/99[31]	9.91	36.68	0.00	6,500[21]	1,200[28]	10	ND	3.8	35	--	--
	12/16/99	8.91	37.68	0.00	4,400[33]	1,790[28]	27.3	ND[11]	9.55	81.4	--	--
	03/16-17/00	5.58	41.01	0.00	440[21]	1,300[28]	ND[11]	ND[11]	ND[11]	73	--	--
	06/26-27/00	8.25	38.34	0.00	470[14]	2,000[28]	22	ND[11]	10	120	--	--
	09/21/00	10.92	35.67	0.00	96.2[37]	210[28]	2.2	0.64	0.99	8.4	--	--
	11/08/00	11.27	35.32	0.00	215[21]	880[28]	21	ND[11]	8.0	52	--	--
	02/08/01	7.93	38.66	0.00	[21]82/58[14,38]	933[28]	41.1	14.3	7.51	38.4	--	--
	05/09/01	6.23	40.36	0.00	[15]80/ND[38]	390[28]	20	4.6	20	68	--	--
	08/07/01	8.90	37.69	0.00	<50	120	3.3	<0.50	<0.50	4.0	--	--
	11/27/01	9.95	36.64	0.00	[41]100/100[38,41]	170	2.0	<0.50	0.65	5.5	--	--
	02/05/02	5.51	41.08	0.00	[41]510/300[38,41]	480	21	<0.50	2.1	29	--	--
	05/07/02	INACCESSIBLE - TRACTOR OVER WELL				--	--	--	--	--	--	--
	08/14/02	8.37	38.22	0.00	[41]2,300/2,000[38,41]	5,800	120	11	65	280	--	--
	11/12/02	9.94	36.65	0.00	1,900/570[38]	1,800	70	1.1	26	110	--	--
	02/12/03	5.64	40.95	0.00	1,800/410[38]	1,400	54	0.67	19	95	--	--
46.57	06/09-10/03	5.62	40.95	0.00	2,900/1,600[38]	5,000	320	6.9	170	650	--	--
	08/14/03	7.96	38.61	0.00	[41]1,900/990[38,41]	4,000	220	6.7	110	460	--	--
	12/11/03	8.25	38.32	0.00	1,100	340	6.8	<0.50	1.4	16	--	--
	03/23/04	6.00	40.57	0.00	1,200[49]/260[38,49]	1,800[50]	150	130	40	310	--	--
	08/10/04	9.20	37.37	0.00	610 [49]	1,300 [50]	49	2.5	18	140	--	--
48.35	02/08/05	6.17	42.18	0.00	580 [49]	2,100 [51]	150	3.1	12	160	--	--
	05/18/05	**4.03**	**44.32**	**0.00**	--							

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-4												
50.31	03/26/91	9.85	40.46	0.00	ND	55,000	13,000	16,000	2,000	13,000	--	--
	05/01/91	10.13	40.18	0.00	--	--	--	--	--	--	--	--
	07/08/91	11.08	39.23	0.00	ND	33,000	7,900	3,900	1,400	3,900	--	--
	10/21/91	13.45	36.86	0.06	--	--	--	--	--	--	--	--
	01/23/92	13.25	37.06	0.08	--	--	--	--	--	--	--	--
	05/01/92	10.41	39.90	0.00	14,000[4]	29,000	5,400	12,000	1,900	750	--	--
	07/02/92	11.62	38.69	0.02	--	--	--	--	--	--	--	--
	07/17/92	11.79	38.52	0.00	12,000	68,000	5,900	9,700	2,400	9,900	--	--
	10/02/92	13.67	36.64	0.25/Sheen	--	--	--	--	--	--	--	--
	03/03/93	10.69	39.62	0.54/Sheen	--	--	--	--	--	--	--	--
	06/22-23/93	7.65	42.66	0.00	--	--	--	--	--	--	--	--
	09/22-23/93	12.85	37.46***	0.30	--	--	--	--	--	--	--	--
	12/22/93	13.20	37.30**	0.25	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	03/28-29/94	10.31	40.00	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	06/23-24/94	101.96	-51.65	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	09/21/94	13.81	36.50	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	12/21/94	12.32	38.33**	0.44	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	03/02-03/95	10.96	39.35	0.00	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	06/01/95	10.38	39.93	Sheen	2,500[8]	27,000	3,600	7,000	730	400	--	--
	09/05-06/95	13.35	36.98**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	12/10-11/95	13.38	36.95**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	03/11/96	INACCESSIBLE (CONNECTED TO REMEDIATION SYSTEM)					--	--	--	--	--	--
	06/03-04/96	6.83	43.48	Sheen	19,000[7]	81,000	4,600	15,000	2,300	13,000	--	--
	09/04-05/96	12.80	37.51	Sheen	4,500[8]	100,000	7,600	5,300	1,200	7,200	--	--
	12/02-03/96	12.36	37.95	Sheen	4,200[7]	46,000	4,500	15,000	1,900	11,000	--	--
	03/10-11/97	9.53	40.78	Sheen	3,400[7]	36,000	1,400	7,400	1,100	8,000	--	--
	06/09-10/97	10.60	39.71	Sheen	3,900[7]	94,000	1,800	7,700	1,100	9,100	ND	--
	09/08-09/97	13.76	36.55	Sheen	8,200[7]	170,000	1,700	6,400	2,900	18,000	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-4	12/03-04/97	12.10	38.21	Sheen	6,100[7]	100,000	4,800	12,000	2,300	15,000	--	--
(Cont.)	03/23-24/98	8.07	42.24	0.00	3,400[10]	100,000	12,000	21,000	2,000	11,000	--	--
	06/07-08/98	8.90	41.43**	0.02/Sheen	4,900[12]	83,000	8,500	14,000	1,900	13,000	--	--
	09/16/98	11.34	38.99**	0.02/Sheen	4,200[12]	110,000	9,000	12,000	1,900	12,000	ND[11]	--
	12/16/98	9.40	40.91	Sheen	1,900[10]	64,000	10,000	12,000	1,500	7,900	--	--
	03/23/99	8.25	42.06	Sheen	2,500[21]	51,000	6,600	9,100	1,100	5,500	ND[22]	--[26]
	06/14/99	9.42	40.89	0.00	2,300[21]	49,000	6,400	6,700	1,100	5,200	--	--
	09/13-14/99	11.83	38.48	0.00	1,400[21]	39,000[28,30]	1,800	900	220	920	--	--
	12/16/99	11.01	39.30	0.00	7,700[14]	61,100[28]	6,670	6,870	1,280	6,130	--	--
	03/16-17/00	8.88	41.43	0.00	2,500[14]	35,000[28]	7,100	7,500	1,400	6,400	--	--
	06/26-27/00[36]	10.89	39.42	0.00	1,400[14]	19,000[28]	5,800	6,400	930	4,900	--	--
	09/21/00	12.77	37.54	Sheen	2,160[37]	30,000[28]	4,900	4,000	730	3,600	--	--
	11/08/00	13.12	37.19	0.00	1,760[21]	57,000[28]	6,200	7,100	1,100	6,400	--	--
	02/08/01	10.62	39.69	0.00	[14]2,800/2,300[14,38]	48,600[28]	6,930	6,630	1,020	5,370	--	--
	05/09/01	9.73	40.58	0.00	[39]4,100/3,700[14,38]	48,000[28]	4,800	10,000	1,400	7,200	--	--
	08/07/01	11.86	38.45	0.00	[41]2,100/2,700[38,41]	28,000[40]	9,600[40]	6,400[40]	1,000[40]	5,000[40]	--	--
	11/27/01	12.03	38.28	0.00	[41]1,000/1,000[38,41]	43,000	9,800	6,700	1,200	5,400	--	--
	02/05/02	8.56	41.75	0.00	--[42]	56,000	9,700	10,000	1,500	7,000	--	--
	05/07/02	9.37	40.94	0.00	[43]19,000/14,000[38,43]	81,000	2,200	6,300	1,700	13,000	--	--
	08/14/02	11.56	38.75	0.00	[41]3,100/3,600[38,41]	56,000	3,900	10,000	1,800	12,000	--	--
	11/12/02	12.73	37.58	0.00	8,000[38,44]	110,000	7,400	22,000	3,900	22,000	--	--
	02/12/03	8.98	41.33	0.00	3,800/2,000[38]	67,000	7,800	12,000	2,000	11,000	--	--
50.29	06/09-10/03	9.34	40.95	0.00	9,000/6,700[38]	48,000	1,900	5,100	1,400	10,000	--	--
	08/14/03	11.26	39.03	0.00	[41]2,000/1,900[38,41]	46,000	2,200	5,400	1,100	7,500	--	--
	12/11/03	11.54	38.75	0.00	2,800	24,000	3,900	2,800	890	4,200	--	--
	03/23/04	9.10	41.19	0.00	5200[49]/2,000[38,49]	24,000	5,300	3,800	580	2,400	--	--
	08/10/04	12.00	38.29	0.00	2,600 [49]	17,000 [50]	2,800	1,600	370	2,000	--	--
52.07	02/08/05	9.28	42.79	0.00	4,000 [49]	32,000	4,100	4,500	860	5,100	--	--
	05/18/05	**8.02**	**44.05**	**0.00**	--							

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-5												
47.57	03/26/91	9.22	38.35	0.00	ND	64,000	22,000	16,000	2,000	13,000	--	--
	05/01/91	9.01	38.56	0.00	--	--	--	--	--	--	--	--
	07/08/91	10.00	37.57	Sheen	ND	120,000	25,000	18,000	1,400	15,000	--	--
	10/21/91	12.05	35.52***	0.25/Sheen	--	--	--	--	--	--	--	--
	01/23/92	11.05	36.52***	0.02/Sheen	--	--	--	--	--	--	--	--
	05/01/92	9.13	38.44	0.00	ND	89,000	18,000	16,000	3,200	13,000	--	--
	07/02/92	10.23	37.34***	0.01/Sheen	--	--	--	--	--	--	--	--
	07/17/92	10.49	37.08	0.00	12,000	72,000	14,000	12,000	2,700	8,700	--	--
	10/02/92	11.97	35.60***	0.95/Sheen	--	--	--	--	--	--	--	--
	03/03/93	9.70	37.87***	1.22/Sheen	--	--	--	--	--	--	--	--
	06/22-23/93[6]	8.06	39.51***	0.75/Sheen	--	--	--	--	--	--	--	--
	09/22-23/93	11.35	36.22***	0.10/Sheen	--	--	--	--	--	--	--	--
	12/22/93	11.10	36.53**	0.08	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	03/28-29/94	9.05	38.52	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	06/23-24/94	10.02	37.55	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	09/21/94	11.85	35.73**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	12/21/94	10.32	37.50**	0.32	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	03/02-03/95	9.02	38.55	0.00	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	06/01/95	9.32	38.33**	0.10	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	09/05-06/95	12.36	35.33**	0.16	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	12/10-11/95	12.40	35.25**	0.11	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	03/11/96	INACCESSIBLE (CONNECTED TO REMEDIATION SYSTEM)					--	--	--	--	--	--
	06/03-04/96	7.11	40.48**	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	09/04-05/96	11.33	36.25**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	12/02-03/96	10.25	37.33**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	03/10-11/97	8.45	39.13**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	06/09-10/97	9.76	37.82**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	09/08-09/97	12.51	35.07**	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-5	12/03-04/97	10.12	37.45	Sheen	43,000[7]	480,000	13,000	16,000	3,700	21,000	--	--
(Cont.)	03/23-24/98	7.80	41.16**	1.80	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	06/07-08/98	9.65	38.88**	1.25	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	09/16/98	12.10	35.53**	0.08	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	12/16/98	8.25	39.35**	0.04	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	03/23/99	7.19	40.56**	0.24	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	06/14/99	8.61	39.35**	0.51	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	09/13-14/99	10.76	36.99**	0.24	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	12/16/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	03/16-17/00	7.01	40.56	0.00	18,000[34]	41,000[28]	720	2,700	950	6,600	--	--
	06/26-27/00	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	09/21/00	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	11/08/00	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	02/08/01	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	05/09/01	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	08/07/01	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	11/27/01	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	02/05/02	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	05/07/02	7.20	40.37	0.00	25,000/21,000[38]	84,000	6,500	7,400	1,800	15,000	--	--
	08/14/02	9.80	37.77	0.00	29,000/15,000[38]	75,000	8,200	11,000	750	16,000	--	--
	11/12/02	8.83	38.74	0.00	24,000[38,44]	57,000	5,400	6,300	410	14,000	--	--
	02/12/03	5.79	41.78	0.00	36,000/4,600[38]	30,000	2,100	2,200	230	8,300	--	--
47.45	06/09-10/03	7.03	40.42	0.00	12,000/8,000[38]	45,000	3,300	6,500	490	11,000	--	--
	08/14/03	9.33	38.12	0.00	[41]9,100/6,100[38,41]	44,000	2,600	4,200	460	8,300	--	--
	12/11/03	7.58	39.87	0.00	130,000	55,000	4,500	4,800	810	14,000	--	--
	03/23/04	6.20	41.25	0.00	19,000[49]/2,200[38,49]	16,000	1,300	3,900	270	8,500	--	--
	08/10/04	10.13	37.32	0.00	7,700 [49]	40,000	2,000	3,000	560	9,400	--	--
49.27	02/08/05	6.09	43.18	0.00	2,200 [49]	24,000	950	1,000	310	5,300	--	--
	05/18/05	**5.52**	**43.75**	**0.00**	--							

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-6												
42.89	03/26/91	4.61	38.28	0.00	ND	2,400	310	13	63	210	--	--
	05/01/91	6.58	36.31	0.00	--	--	--	--	--	--	--	--
	07/08/91	7.68	35.21	0.00	ND	410	97	1.1	1.2	1.9	--	--
	10/21/91	9.65	33.24	0.00	ND	ND	11	1.6	ND	1.6	--	--
	01/23/92	7.60	35.29	0.00	ND	2,900	180	32	6.3	32	--	--
	05/01/92	4.50	38.39	0.00	870[1]	2,000	94	79	15	79	--	--
	07/02/92	6.40	36.49	0.00	--	--	--	--	--	--	--	--
	07/17/92	7.74	35.15	0.00	730[2]	50	5.4	ND	ND	ND	--	--
	10/02/92	7.35	35.54	0.00	ND	90	7.5	1.8	ND	2.0	--	ND[13]
	03/03/93	4.60	38.29	0.00	ND	8,500	460	2.0	130	86	--	ND[13]
	06/22-23/93	6.16	36.73	0.00	2,300	1,900	300	ND	93	59	--	--
	09/22-23/93	8.00	34.89	0.00	170	ND	ND	ND	ND	ND	--	--
	12/22/93	5.70	37.19	0.00	440[7]	1,200	350	15	120	150	--	--
	03/28-29/94	5.22	37.67	0.00	2,000[7]	9,900	1,300	9.2	240	410	--	--
	06/23-24/94	6.39	36.50	0.00	5,900[7]	29,000	3,500	3,000	1,000	3,400	--	--
	09/21/94	9.06	33.83	0.00	200[7]	220	7.2	ND	0.83	5.8	--	--
	12/21/94	5.41	37.48	0.00	1,200[7]	5,700	550	ND	70	58	--	--
	03/02-03/95	5.51	37.38	0.00	2,600[7]	6,400	350	ND	38	24	--	--
	06/01/95	6.03	36.86	0.00	130[8]	4,100	490	ND	50	14	--	--
	09/05-06/95	9.12	33.77	0.00	7,000[8]	25,000	540	680	600	6,900	--	--
	12/10-11/95	9.13	33.76	0.00	3,300[7]	8,900	1,600	ND	280	430	--	--
	03/11/96	6.12	36.77	0.00	2,200[7]	4,000	290	0.57	66	81	--	--
	06/03-04/96	6.98	35.91	0.00	1,600[7]	4,400	690	ND	100	89	--	--
	09/04-05/96	8.11	34.78	0.00	580[7]	720	36	ND	7.3	4.0	--	--
	12/02-03/96	4.85	38.04	0.00	2,300[7]	1,800	290	8.2	50	24	--	--
	03/10-11/97	5.10	37.79	0.00	2,100[7]	3,000	300	5.7	56	22	--	--
	06/09-10/97	6.38	36.51	0.00	1,000[7]	2,000	240	10	23	8.6	25	--
	09/08-09/97	9.12	33.77	0.00	110[7]	520	10	0.61	ND	6.0	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-6	12/03-04/97	5.99	36.90	0.00	2,900[7]	11,000	990	11	230	430	--	--
(Cont.)	03/23-24/98	4.06	38.83	0.00	820[12]	1,700	130	ND[11]	23	14	--	--
	06/07-08/98	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	09/16/98	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	12/16/98	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	03/23/99	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	06/14/99	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	09/13-14/99	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	12/16/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	03/16-17/00	4.05	38.84	0.00	2,600[21]	1,900[28]	150	11	10	ND[11]	--	--
	06/26-27/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	09/21/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	11/08/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	02/08/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	05/09/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	08/07/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	11/27/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	02/05/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	05/07/02	8.51	34.38	0.00	3,300/56[38]	1,900	160	6.6	8.8	1.9	--	--
	08/14/02	7.15	35.74	0.00	2,100/310[38]	710	36	2.7	3.6	<1.2	--	--
	11/12/02	6.51	36.38	0.00	3,200[38,44]	1,900	60	<2.5	5.8	<2.5	--	--
	02/12/03	4.60	38.29	0.00	7,300/910[38]	2,900	450	6.8	26	4.7	--	--
42.73	06/09-10/03	5.75	36.98	0.00	2,300/760[38]	820	98	4.1	6.0	0.90	--	--
	08/14/03	7.07	35.66	0.00	880/510[38,41]	480	21	1.6	2.8	1.5	--	--
	12/11/03	5.44	37.29	0.00	4,500	350	48	0.69[46]	2.0	<0.50	--	--
	03/23/04	5.61	37.12	0.00	610[49]/200[38,49]	680	88	16	7.4	20	--	--
	08/10/04	8.00	34.73	0.00	340 [49]	<50	<0.50	<0.50	<0.50	<1.0	--	--
44.55	02/08/05	5.19	39.36	0.00	54 [49]	81 [51]	6.4	0.77	0.66	1.1	--	--
	05/18/05	**4.16**	**40.39**	**0.00**	--							

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-7												
35.66	07/02/92	2.90	32.76	0.00	--	--	--	--	--	--	--	--
	07/17/92	--	--	--	--	--	--	--	--	--	--	--
	10/02/92	5.02	30.64	0.00	220	ND	ND	ND	ND	ND	--	--
	03/03/93	0.82	34.84	0.00	ND	ND	ND	ND	ND	ND	--	ND
	06/22-23/93	3.07	32.59	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/22-23/93	4.35	31.31	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/22/93	1.70	33.96	0.00	58[7]	ND	ND	ND	ND	0.66	--	--
	03/28-29/94	1.50	34.16	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/23-24/94	3.22	32.44	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/21/94	6.25	29.41	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/21/94	0.69	34.97	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/02-03/95	1.08	34.58	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/01/95	3.45	32.21	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/05-06/95	6.32	29.34	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/10-11/95	6.27	29.39	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/11/96	3.57	32.09	0.00	ND	320	ND	ND	ND	0.8	--	--
	06/03-04/96	5.77	29.89	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/04-05/96	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	12/02-03/96	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	03/10-11/97	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	06/09-10/97	2.49	33.17	0.00	ND	ND	ND	ND	ND	ND	ND	--
	09/08-09/97	4.25	31.41	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/03-04/97	1.20	34.46	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/23-24/98	0.00	35.66	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/07-08/98	1.60	34.06	0.00	52[15]	ND	ND	ND	ND	ND	--	--
	09/16/98	3.94	31.72	0.00	58	ND	ND	0.84	ND	1.2	ND	--
	12/16/98	0.31	35.35	0.00	ND[11]	ND	ND	ND	ND	ND	--	--
	03/23/99	0.50	35.16	0.00	ND	ND	ND	0.98	ND	1.7	ND[22]	--[24]

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-7	06/14/99	2.55	33.11	0.00	67[15]	ND	ND	ND	ND	ND	--	--
(Cont.)	09/13-14/99	3.95	31.71	0.00	100[15,29]	ND	ND	ND	ND	ND	--	--
	12/16/99	0.68	34.98	0.00	54[15]	ND	ND	ND	ND	ND	--	--
	03/16-17/00	0.00	35.66	0.00	120[15]	ND	ND	ND	ND	ND	--	--
	06/26-27/00	3.41	32.25	0.00	90[15]	ND	ND	ND	ND	ND	--	--
	09/21/00	4.52	31.14	0.00	134[37]	82[29]	ND	38	ND	ND	--	--
	11/08/00	2.45	33.21	0.00	149[21]	ND	ND	0.99	ND	ND	--	--
	02/08/01	1.65	34.01	0.00	[15]91/ND[38]	ND	ND	ND	ND	ND	--	--
	05/09/01	2.39	33.27	0.00	[15]68/ND[38]	ND	ND	ND	ND	ND	--	--
	08/07/01	4.86	30.80	0.00	[41]78/<50[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
35.66	11/27/01	0.97	34.69	0.00	[41]69/69[38,41]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/05/02	1.13	34.53	0.00	[41]180/<50[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	05/07/02	1.56	34.10	0.00	[41]120/<50[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	08/14/02	4.53	31.13	0.00	[41]110/<56[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/12/02	2.50	33.16	0.00	210[38,44]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/12/03	1.21	34.45	0.00	240/<50[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	06/09-10/03	2.39	33.27	0.00	200/<51[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	08/14/03	3.64	32.02	0.00	[41]160/75[38,41]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	12/11/03	0.05	35.61	0.00	180/130[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	03/23/04	1.85	33.81	0.00	<50/<50 [36]	--	--	--	--	--	--	--
	08/10/04	3.72	31.94	0.00	--	--	--	--	--	--	--	--
37.41	02/08/05	1.00	36.41	0.00	<50	--	--	--	--	--	--	--
	05/18/05	**0.00**	**37.41**	**0.00**	--							
MW-8												
42.49	07/02/92	8.50	33.99	0.00	--	--	--	--	--	--	--	--
	07/17/92	9.11	33.38	0.00	ND	ND	ND	ND	ND	ND	--	--
	10/02/92	11.19	31.30	0.00	ND	ND	ND	ND	ND	ND	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-8	03/03/93	5.55	36.94	0.00	ND	ND	ND	ND	ND	ND	--	ND
(Cont.)	06/22-23/93	7.85	34.64	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/22-23/93	10.40	32.09	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/22/93	9.45	33.04	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/28-29/94	7.55	34.94	0.00	ND	ND	ND	0.59	ND	0.82	--	--
	06/23-24/94	8.86	33.63	0.00	58[7]	ND	ND	ND	ND	ND	--	--
	09/21/94	11.27	31.22	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/21/94	5.70	36.79	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/02-03/95	6.03	36.46	0.00	73[7]	ND	ND	ND	ND	ND	--	--
	06/01/95	9.21	33.28	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/05-06/95	12.08	30.41	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/10-11/95	12.10	30.39	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/11/96	7.80	34.69	0.00	ND	ND	ND	ND	ND	0.65	--	--
	06/03-04/96	7.96	34.53	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/04-05/96	10.13	32.36	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/02-03/96	5.83	36.66	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/10-11/97	6.37	36.12	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/09-10/97	7.70	34.79	0.00	ND	ND	ND	ND	ND	ND	ND	--
	09/08-09/97	10.58	31.91	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/03-04/97	6.23	36.26	0.00	70[8]	ND	ND	ND	ND	ND	--	--
	03/23-24/98	5.33	37.16	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/07-08/98	7.33	35.16	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/16/98	10.16	32.33	0.00	ND	ND	ND	ND	ND	ND	ND	--
	12/16/98	6.67	35.82	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/23/99	6.79	35.70	0.00	ND	ND	ND	ND	ND	ND	ND[22]	--[24]
	06/14/99	9.79	32.70	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/13-14/99	10.30	32.19	0.00	57[15]	ND	ND	ND	ND	ND	--	--
	12/16/99	6.26	36.23	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/16-17/00	5.64	36.85	0.00	68[15]	ND	ND	ND	ND	ND	--	--

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Former Unocal Bulk Plant No. 762248
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Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-8	06/26-27/00	8.03	34.46	0.00	ND	ND	ND	ND	ND	ND	--	--
(Cont.)	09/21/00	10.32	32.17	0.00	ND	ND	ND	ND	ND	ND	--	--
	11/08/00	9.46	33.03	0.00	91.2[21]	ND	ND	ND	ND	ND	--	--
	02/08/01	7.27	35.22	0.00	ND	ND	ND	ND	ND	ND	--	--
	05/09/01	9.83	32.66	0.00	ND	ND	ND	ND	ND	ND	--	--
	08/07/01	11.40	31.09	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/27/01	7.44	35.05	0.00	[41]52/52[38,41]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/05/02	7.49	35.00	0.00	[41]150/<50[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	05/07/02	7.02	35.47	0.00	[41]73/<50[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	08/14/02	10.31	32.18	0.00	[41]98/<56[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/12/02	8.30	34.19	0.00	180/<50[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/12/03	6.55	35.94	0.00	170/<56[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	06/09-10/03	8.25	34.24	0.00	150/<51[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
42.49	08/14/03	9.76	32.73	0.00	[41]110/120[38,41]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	12/11/03	7.74	34.75	0.00	160/92[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	03/23/04	6.42	36.07	0.00	<50/<50 [38]	--	--	--	--	--	--	--
	08/10/04	7.25	35.24	0.00	--	--	--	--	--	--	--	--
44.21	02/08/05	5.42	38.79	0.00	<50	--	--	--	--	--	--	--
	05/18/05	**4.44**	**39.77**	**0.00**	**--**							
MW-9												
35.20	07/02/92	4.50	30.70	0.00	--	--	--	--	--	--	--	--
	07/17/92	5.45	29.75	0.00	ND	ND	ND	ND	ND	ND	--	--
	10/02/92	5.69	29.51	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/03/93	3.71	31.49	0.00	ND	ND	ND	ND	ND	ND	--	ND
	06/22-23/93	4.88	30.32	0.00	120	ND	ND	ND	ND	ND	--	--
	09/22-23/93	6.70	28.50	0.00	70	ND	ND	ND	ND	ND	--	--
	12/22/93	INACCESSIBLE		--	--	--	--	--	--	--	--	--

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Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-9	03/28-29/94	4.39	30.81	0.00	ND	ND	ND	ND	ND	ND	--	--
(Cont.)	06/23-24/94	5.09	30.11	0.00	58[7]	ND	ND	ND	ND	ND	--	--
	09/21/94	7.12	28.08	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/21/94	3.90	31.30	0.00	140[7]	ND	ND	ND	ND	ND	--	--
	03/02-03/95	1.35	33.85	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/01/95	3.83	31.37	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/05-06/95	7.04	28.16	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/10-11/95	7.08	28.12	0.00	230[7]	ND	ND	ND	ND	ND	--	--
	03/11/96	3.69	31.51	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/03-04/96	5.92	29.28	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/04-05/96	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	12/02-03/96	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	03/10-11/97	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	06/09-10/97	4.89	30.31	0.00	62	ND	ND	ND	ND	ND	ND	--
	09/08-09/97	7.04	28.16	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/03-04/97	3.08	32.12	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/23-24/98	3.31	31.89	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/07-08/98	4.42	30.78	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/16/98	7.29	27.91	0.00	75	ND	ND	ND	ND	ND	ND	--
	12/16/98	4.14	31.06	0.00	83[20]	ND	ND	ND	ND	ND	--	--
	03/23/99	4.11	31.09	0.00	ND	ND	ND	1.0	ND	1.1	ND[22]	--[24]
	06/14/99	5.55	29.65	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/13-14/99	7.85	27.35	0.00	71[15]	ND	ND	ND	ND	ND	--	--
	12/16/99	3.77	31.43	0.00	440[21]	63.4[32]	ND	31.8	ND	ND	--	--
	03/16-17/00	3.47	31.73	0.00	180[15]	120[29]	0.60	160	ND	ND	--	--
	06/26-27/00	5.17	30.03	0.00	100[15]	ND	ND	ND	ND	ND	--	--
	09/21/00	6.90	28.30	0.00	103[37]	ND	ND	ND	ND	ND	--	--
	11/08/00	4.06	31.14	0.00	159[21]	ND	ND	ND	ND	ND	--	--
	02/08/01	4.14	31.06	0.00	[15]160/ND[38]	436[29]	ND[11]	274	ND[11]	ND[11]	--	--

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Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-9	05/09/01	4.71	30.49	0.00	[15]85/53[15,38]	ND	ND	ND	ND	ND	--	--
(Cont.)	08/07/01	7.16	28.04	0.00	[41]150/<50[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/27/01	3.85	31.35	0.00	[41]200/200[38,41]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/05/02	4.23	30.97	0.00	[41]420/170[38,41]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	05/07/02	4.01	31.19	0.00	[41]100/<50[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	08/14/02	7.02	28.18	0.00	[41]130/<56[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/12/02	3.78	31.42	0.00	240[38,44]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/12/03	4.15	31.05	0.00	570/160[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	06/09-10/03	4.87	30.33	0.00	300/120[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
35.20	08/14/03	5.87	29.33	0.00	[41]98/98[38,41]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	12/11/03	4.75	30.45	0.00	1,500	<50	<0.50	<0.50	<0.50	<0.50	--	--
	03/23/04	4.05	31.15	0.00	<50/<50 [38]	--	--	--	--	--	--	--
	08/10/04	6.45	28.75	0.00	--	--	--	--	--	--	--	--
37.03	02/08/05	3.99	33.04	0.00	<50	--	--	--	--	--	--	--
	05/18/05	**3.55**	**33.48**	**0.00**	--							
MW-10												
49.43	07/02/92	7.67	41.76	0.00	--	--	--	--	--	--	--	--
	07/17/92	7.95	41.48	0.00	ND	ND	ND	ND	ND	ND	--	--
	10/02/92	10.73	38.70	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/03/93	1.89	47.54	0.00	ND	ND	ND	ND	ND	ND	--	ND
	06/22-23/93	2.65	46.78	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/22-23/93	9.20	40.23	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/22/93	7.09	42.34	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/28-29/94	2.03	47.40	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/23-24/94	6.51	42.92	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/21/94	10.31	39.12	0.00	ND	ND	ND	0.92	ND	1.3	--	--
	12/21/94	3.57	45.86	0.00	ND	ND	ND	ND	ND	ND	--	--

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WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-10	03/02-03/95	2.08	47.35	0.00	ND	ND	ND	ND	ND	ND	--	--
(Cont.)	06/01/95	6.95	42.48	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/05-06/95	10.11	39.32	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/10-11/95	10.05	39.38	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/11/96	1.97	47.46	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/03-04/96	3.30	46.13	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/04-05/96	8.99	40.44	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/02-03/96	5.51	43.92	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/10-11/97	1.23	48.20	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/09-10/97	4.80	44.63	0.00	ND	ND	ND	ND	ND	ND	ND	--
	09/08-09/97	9.20	40.23	0.00	ND	ND	ND	ND	ND	ND	--	--
	12/03-04/97	3.26	46.17	0.00	58[8]	ND	ND	ND	ND	ND	--	--
	03/23-24/98	0.04	49.39	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/07-08/98	1.23	48.20	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/16/98	7 18	42.25	0.00	ND	ND	ND	ND	ND	ND	ND	--
	12/16/98	1.47	47.96	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/23/99	0.68	48.75	0.00	ND	ND	ND	1.6	ND	1.5	ND[22]	--[24]
	06/14/99	2.92	46.51	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/13-14/99	8.24	41.19	0.00	62[15]	ND	ND	ND	ND	ND	--	--
	12/16/99	3.06	46.37	0.00	ND	ND	ND	ND	ND	ND	--	--
	03/16-17/00	1.29	48.14	0.00	ND	ND	ND	ND	ND	ND	--	--
	06/26-27/00	5.55	43.88	0.00	ND	ND	ND	ND	ND	ND	--	--
	09/21/00	8.97	40.46	0.00	ND	ND	ND	ND	ND	ND	--	--
	11/08/00	9.87	39.56	0.00	63.6[21]	ND	ND	ND	ND	ND	--	--
	02/08/01	2.31	47.12	0.00	ND	ND	ND	ND	ND	ND	--	--
	05/09/01	2.71	46.72	0.00	ND	ND	ND	ND	ND	ND	--	--
	08/07/01	7.93	41.50	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/27/01	9.15	40.28	0.00	[41]78/78[38,41]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/05/02	1.76	47.67	0.00	[41]100/53[38,41]	<50	<0.50	<0.50	<0.50	<0.50	--	--

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Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-10	05/07/02	2.16	47.27	0.00	<50	<50	<0.50	<0.50	<0.50	<0.50	--	--
(Cont.)	08/14/02	8.30	41.13	0.00	<56	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/12/02	10.78	38.65	0.00	60[38,44]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/12/03	1.67	47.76	0.00	370/220[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
49.43	06/09-10/03	3.30	46.13	0.00	280/190[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	08/14/03	8.15	41.28	0.00	<55	<50	<0.50	<0.50	<0.50	<0.50	--	--
	12/11/03	8.00	41.43	0.00	110	<50	<0.50	<0.50	<0.50	<0.50	--	--
	03/23/04	1.95	47.48	0.00	<50/<50 [38]	--	--	--	--	--	--	--
	08/10/04	8.58	40.85	0.00	--	--	--	--	--	--	--	--
51.26	02/08/05	1.55	49.71	0.00	<50	--	--	--	--	--	--	--
	05/18/05	**1.48**	**49.78**	**0.00**	**--**							
MW-11	12/22/93	--	--	--	--	--	--	--	--	--	--	--
	03/28/94	7.22	--	0.04	--	--	--	--	--	--	--	--
	NOT MONITORED/SAMPLED											
MW-12	12/22/93	--	--	--	--	--	--	--	--	--	--	--
	03/28/94	7.35	--	0.00	--	--	--	--	--	--	--	--
	NOT MONITORED/SAMPLED											
MW-13												
45.99	06/09-10/03	6.55	39.44	0.00	6,400/5,000[38]	32,000	1,600	400	1,500	4,100	--	--
	08/14/03	7.87	38.12	0.00	[41]3,300/2,600[38,41]	28,000	1,000	540	1,300	5,100	--	--
	12/11/03	7.00	38.99	0.00	4,900	18,000	800	360	1,300	4,900	--	--
	03/23/04	6.32	39.67	0.00	6,900[49]/410[38,49]	14,000	930	320	1,100	4,100	--	--
	05/18/04	7.05	38.94	0.00	10 [49]	14,000	840	200	970	4,700	--	--

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Former Unocal Bulk Plant No. 762248
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Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-13	08/10/04	8.68	37.31	0.00	1,500 [49]	16,000 [50]	850	130	920	3,400	--	--
(Cont.)	11/09/04	8.03	37.96	0.00	4,400 [49]	24,000 [50]	1,200	290	1,300	4,500	--	--
47.79	02/08/05	6.20	41.59	0.00	4,500 [49]	17,000 [51]	1,000	210	1,100	3,800	--	--
	05/18/05	**5.23**	**42.56**	**0.00**	**3,900 [49]**	**12,000**	**830**	**220**	**780**	**3,400**	--	--
MW-14												
44.24	06/09-10/03	21.90	22.34	0.00	200/83[38]	<50	1.2	<0.50	<0.50	<0.50	--	--
	08/14/03	23.92	20.32	0.00	[41]93/<58[38]	<50	0.54	<0.50	<0.50	<0.50	--	--
	12/11/03	22.65	21.59	0.00	230	<50	<0.50	<0.50	<0.50	1.7	--	--
	03/23/04	21.15	23.09	0.00	<50/<50 [38]	<50	<0.50	<0.50	0.71	1.3	--	--
	05/18/04	22.55	21.69	0.00	<50	68	1.8	1.2	4.6	14	--	--
	08/10/04	24.20	20.04	0.00	<50	<50	<0.50	<0.50	<0.50	1.1	--	--
	11/09/04	24.11	20.13	0.00	<50	<50	0.88	<0.50	0.91	2.0	--	--
46.02	02/08/05	21.97	24.05	0.00	<50	<50	<0.50	0.57	<0.50	<1.0	--	--
	05/18/05	**20.84**	**25.18**	**0.00**	**<50 [49]**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	--	--
MW-15												
41.79	06/09-10/03	19.47	22.32	0.00	220/73[38]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	08/14/03	21.18	20.61	0.00	[41]120/70[38,41]	<50	<0.50	<0.50	<0.50	<0.50	--	--
	12/11/03	20.23	21.56	0.00	230	<50	<0.50	<0.50	<0.50	<0.50	--	--
	03/23/04	18.75	23.04	0.00	<50/<50 [38]	<50	<0.50	<0.50	0.76	1.3	--	--
	05/18/04	20.11	21.68	0.00	<50	100	2.2	2.1	7.7	22	--	--
	08/10/04	21.80	19.99	0.00	<50	<50	<0.50	<0.50	<0.50	1.3	--	--
	11/09/04	21.77	20.02	0.00	<50	<50	0.83	0.71	<0.50	<1.0	--	--
43.58	02/08/05	19.56	24.02	0.00	<50	<50	<0.50	<0.50	<0.50	<1.0	--	--
	05/18/05	**18.34**	**25.24**	**0.00**	**<50 [49]**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	--	--

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Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
MW-16A												
51.66	02/08/05	8.88	42.78	0.00	490 [49]	3,000 [51]	200	220	68	520	--	--
	05/18/05	**8.71**	**42.95**	**0.00**	**<50**	**670**	**61**	**33**	**24**	**140**	--	--
MW-16B												
51.72	02/08/05	27.65	24.07	0.00	<50	<50	<0.50	0.58	<0.50	1.7	--	--
	05/18/05	**26.49**	**25.23**	**0.00**	**<50 [49]**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	--	--
MW-17												
50.41	02/08/05	26.42	23.99	0.00	53 [49]	60 [51]	3.0	2.7	1.9	7.0	--	--
	05/18/05	**25.22**	**25.19**	**0.00**	**<50 [49]**	**<50**	**1.2**	**<0.50**	**<0.50**	**<1.0**	--	--
MW-18												
43.81	02/08/05	3.33	40.48	0.00	<50	4,500 [51]	2,300	4.5	47	89	--	--
	05/18/05	**2.51**	**41.30**	**0.00**	**1,100 [49]**	**9,200 [51]**	**6,500**	**20**	**510**	**1,400**	--	--
MW-19												
45.77	02/08/05	5.94	39.83	0.00	310 [49]	4,400 [51]	1,500	2.0	43	150	--	--
	05/18/05	**5.12**	**40.65**	**0.00**	**2,000 [49]**	**13,000 [51]**	**980**	**240**	**430**	**1,900**	--	--
MW-20												
43.87	02/08/05	3.30	40.57	0.00	510 [49]	4,200 [51]	700	220	110	590	--	--
	05/18/05	**2.11**	**41.76**	**0.00**	**120 [49]**	**2,000 [51]**	**420**	**110**	**110**	**330**	--	--

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MW-21												
48.46	02/08/05	6.08	42.38	0.00	2,500 [49]	29,000 [51]	2,800	1,300	1,300	5,200	--	--
	05/18/05	**6.60**	**41.86**	**0.00**	**610 [49]**	**3,500 [51]**	**2,600**	**4.0**	**120**	**430**	--	--
PZ-1	06/23-24/94	8.61	--	0.70	--	--	--	--	--	--	--	--
	09/21/94	10.58	--	1.10	--	--	--	--	--	--	--	--
	12/21/94	8.90	--	0.02	--	--	--	--	--	--	--	--
	03/02-03/95	8.45	--	--[16]	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	05/31/95	9.58	--	0.40	--	--	--	--	--	--	--	--
	09/05-06/95	12.56	--	0.30	--	--	--	--	--	--	--	--
	12/10-11/95	12.55	--	0.02	--	--	--	--	--	--	--	--
	03/11/96	8.21	--	0.01	--	--	--	--	--	--	--	--
	06/03-04/96	8.46	--	0.05	--	--	--	--	--	--	--	--
	09/04-05/96	9.55	--	0.00	--	--	--	--	--	--	--	--
	12/02-03/96	7.84	--	0.00	--	--	--	--	--	--	--	--
	03/10-11/97	6.30	--	0.02	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	06/09-10/97	7.74	--	0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--	--
	09/08-09/97	INACCESSIBLE DUE TO CONSTRUCTION				--	--	--	--	--	--	--
	12/03-04/97	INACCESSIBLE DUE TO CONSTRUCTION				--	--	--	--	--	--	--
	03/23-24/98	INACCESSIBLE DUE TO CONSTRUCTION				--	--	--	--	--	--	--
	06/07-08/98	INACCESSIBLE DUE TO CONSTRUCTION				--	--	--	--	--	--	--
	09/16/98[19]	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	12/16/98	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	03/23/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	06/14/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	09/13-14/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	12/16/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	03/16-17/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--

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WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
PZ-1	06/26-27/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
(Cont.)	09/21/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	11/08/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	02/08/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	05/09/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	08/07/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	11/27/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	02/05/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	05/07/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	08/14/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	11/12/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	UNABLE TO LOCATE											
PZ-2	06/23-24/94	8.68	--	0.00	--	--	--	--	--	--	--	--
	09/21/94	10.65	--	0.00	--	--	--	--	--	--	--	--
	12/21/94	7.67	--	0.00	--	--	--	--	--	--	--	--
	03/02-03/95	7.60	--	0.00	1,900[7]	1,600	16	44	20	100	--	--
	05/31/95	8.64	--	0.00	--	--	--	--	--	--	--	--
	09/05-06/95	11.58	--	0.00	--	--	--	--	--	--	--	--
	12/10-11/95	11.53	--	0.00	--	--	--	--	--	--	--	--
	03/11/96	7.38	--	0.00	--	--	--	--	--	--	--	--
	06/03-04/96	7.61	--	0.00	--	--	--	--	--	--	--	--
	09/04-05/96	10.18	--	0.00	--	--	--	--	--	--	--	--
	12/02-03/96	7.67	--	0.00	--	--	--	--	--	--	--	--
	03/10-11/97	6.55	--	0.00	--	--	--	--	--	--	--	--
	06/09-10/97	8.05	--	0.00	--	--	--	--	--	--	--	--
	09/08-09/97	11.13	--	0.00	--	--	--	--	--	--	--	--
	12/03-04/97	8.25	--	0.00	4,500[7]	8,500	69	400	150	1,000	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
PZ-2	03/23-24/98	5.01	--	0.00	--	--	--	--	--	--	--	--
(Cont.)	06/07-08/98	6.11	--	0.00	--	--	--	--	--	--	--	--
	09/16/98	8.54	--	0.00	--	--	--	--	--	--	--	--
	12/16/98	5.68	--	0.00	--	--	--	--	--	--	--	--
	03/23/99	5.35	--	0.00	--	--	--	--	--	--	--	--
	06/14/99	6.60	--	0.00	--	--	--	--	--	--	--	--
	09/13-14/99	9.03	--	0.00	--	--	--	--	--	--	--	--
	12/16/99	UNABLE TO LOCATE		0.00	--	--	--	--	--	--	--	--
	03/16-17/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	06/26-27/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	09/21/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	11/08/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	02/08/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	05/09/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	08/07/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	11/27/01	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	02/05/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	05/07/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	08/14/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	11/12/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	UNABLE TO LOCATE											
Trip Blank												
TB-LB												
	03/23-24/98	--	--	--	ND	ND	ND	ND	ND	ND	--	--
	06/07-08/98	--	--	--	--	ND	ND	ND	ND	ND	--	--
	09/16/98	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	12/16/98	--	--	--	--	ND	ND	ND	ND	ND	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

WELL ID / TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)	VOCs (ug/L)
TB-LB	03/23/99	--	--	--	--	ND	ND	ND	ND	ND	--	--
(Cont.)	06/14/99	--	--	--	--	ND	ND	ND	ND	ND	--	--
	09/13-14/99	--	--	--	--	ND	ND	ND	ND	ND	--	--
	12/16/99	--	--	--	--	ND	ND	ND	ND	ND	--	--
	03/16-17/00	--	--	--	--	ND	ND	ND	ND	ND	--	--
	06/26-27/00[35]	--	--	--	--	ND	ND	ND	ND	ND	--	--
	09/21/00	--	--	--	--	ND	ND	ND	ND	ND	--	--
	11/08/00	--	--	--	--	ND	ND	ND	ND	ND	--	--
	02/08/01	--	--	--	--	ND	ND	ND	ND	ND	--	--
	05/09/01	--	--	--	--	ND	ND	ND	ND	ND	--	--
	08/07/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/27/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/05/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--
QA	05/07/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--
	08/14/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--
	11/12/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--
	02/12/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--
	06/09-10/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--
QA	08/14/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--
(Cont.)	12/11/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--
	05/18/04	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--
	08/10/04	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--
	11/09/04	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--
	02/08/05	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--
	5/18/05[40]	**--**	**--**	**--**	**--**	**<50**	**1.6**	**<0.50**	**<0.50**	**<1.0**	**--**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to December 11, 2003, were compiled from reports prepared by Gettler-Ryan, Inc.

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
(msl) = Mean sea level

TPHg = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015B/8021B
B = Benzene by EPA Method 8015B/8021B
T = Toluene by EPA Method 8015B/8021B
E = Ethylbenzene by EPA Method 8015B/8021B
X = Xylenes by EPA Method 8015B/8021B

VOCs = Volatile Organic Compounds
(ug/L) = Micrograms per Liter
ND = Not Detected
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank

TPHd = Total Petroleum Hydrocarbons as Diesel by EPA Method 8015B-SVOA
MtBE = Methyl tertiary butyl ether

* TOC elevations for the following wells (MW-1 through MW-6 and MW-13, MW-14, & MW-15) were surveyed on 05/14/03, by Oscar Larsen & Associates. TOC elevations have been surveyed relative to msl. Data provided by RESNA, Inc.

** GWE was corrected for the presence of free product; correction factor: (TOC - DTW) + (Product Thickness x 0.77).

*** GWE was not corrected for the presence of free product.

1 Hydrocarbons detected as TPHd appear to be both heavier and lighter hydrocarbons than diesel.
2 Hydrocarbons detected as TPHd appear to be heavier hydrocarbons than diesel.
3 On 10/02/92 and 03/03/93, 1,2-Dichloroethane (1,2-DCA) was detected at 94 ppb and 300 ppb, respectively.
4 Hydrocarbons detected as TPHd appear to be lighter hydrocarbons than diesel.
5 On 10/02/92, acetone was detected at 46 ppb and on 03/03/93 1,2-DCA was detected at 13 ppb.
6 Skimmers installed. Could not get accurate product thickness.
7 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
8 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
9 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
10 Laboratory report indicates diesel and unidentified hydrocarbons <C16.
11 Detection limit raised. Refer to analytical reports.
12 Laboratory report indicates diesel and unidentified hydrocarbons <C14.
13 On 10/02/92, acetone was detected at 11 ppb and on 03/03/93, 1,2-DCA was detected at 2.2 ppb.
14 Laboratory report indicates unidentified hydrocarbons <C16.
15 Laboratory report indicates unidentified hydrocarbons >C16.
16 Product was present but thickness could not be measured.
17 Laboratory report indicates diesel and unidentified hydrocarbons <C15.
18 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.
19 Unable to locate well (with metal detector).
20 Laboratory report indicates unidentified hydrocarbons >C14.

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

EXPLANATIONS: (cont)

21 Laboratory report indicates unidentified hydrocarbons C9-C24.

22 MtBE by EPA Method 8260.

23 All Volatile Organic Compounds (VOCs) by EPA Method 8260 were ND except for the following: benzene at 220 ppb; 1,2-DCA at 13 ppb; total Xylenes at 22 ppb; and 1-ethyl-2-methyl-benzene at 16 ppb.

24 All VOCs by EPA Method 8260 were ND.

25 All VOCs by EPA Method 8260 were ND except for the following: benzene at 30 ppb; n-Butylbenzene at 12 ppb; sec-Butylbenzene at 5.2 ppb; 1,2-DCA at 7.3 ppb; Ethyl Benzene at 21 ppb; Isopropylbenzene at 8.7 ppb; Naphthalene at 27 ppb; n-Propylbenzene at 17 ppb; 1,2-4-Trimethylbenzene at 160 ppb; 1,3-5 Trimethylbenzene at 54 ppb; Total-Xylenes at 130 ppb; methyl-cyclohexane at 17 ppb; 1-ethyl-3-methyl-Benzene at 130 ppb; 1-ethyl-4-methyl-Benzene at 65 ppb; 1-ethyl-2-methyl-Benzene at 95 ppb; 1-ethyl-2,3-dimethyl-Benzene at 43 ppb; 1-ethyl-1,3-dimethyl-Benzene at 45 ppb; 2,3-Dihydro-1-methylindene at 24 ppb; 1,2,3,5-tetramethyl-Benzene at 29 ppb.

26 All VOCs by EPA Method 8260 were ND except for the following: benzene at 8,100 ppb; 1,2-DCA at 110 ppb; Ethyl Benzene at 1,500 ppb; Naphthalene at 310 ppb; n-Propylbenzene at 220 ppb; Toluene at 11,000 ppb; 1,2,4-Trimethylbenzene at 1,200 ppb; 1,3,5-Trimethylbenzene at 340 ppb; Total-Xylenes at 7,700 ppb; 2-methyl-Propane at 340 ppb; Butane at 360 ppb; 2-methyl-Butane at 380 ppb; 1-ethyl-2-methyl-Benzene at 910 ppb; 1-ethyl-4-methyl-Benzene at 310 ppb.

27 Laboratory report indicates unidentified hydrocarbons >C12.

28 Laboratory report indicates gasoline C6-C12.

29 Laboratory report indicates discrete peaks.

30 Laboratory report indicates BTEX and TFT one third of expected due to IS peak coelution.

31 Initial results reported by laboratory did not correlate with historical data. Requested sample be re-analyzed (past hold time).

32 Laboratory report indicates unidentified hydrocarbons C6-C12.

33 Laboratory report indicates diesel C9-C24.

34 Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.

35 Laboratory report indicates that this sample was analyzed outside of the EPA recommended holding time.

36 Laboratory report indicates that this sample was originally analyzed within EPA recommended holding time above maximum calibration range. The sample was re-analyzed past EPA recommended holding time.

37 Laboratory report indicates unidentified hydrocarbons C10-C24.

38 TPHd with silica gel cleanup.

39 Laboratory report indicates unidentified hydrocarbons C9-C40.

40 Laboratory report indicates sample was originally analyzed within holding time Re-analysis for confirmation or dilution was performed past the recommended holding time.

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 762248
359 Main Street
Fortuna, California

EXPLANATIONS: (cont)

41 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

42 TPHd results for MW-4 are unavailable due to loss of extract during extraction process.

43 Laboratory report indicates diesel + unidentified hydrocarbons C10-C28.

44 Laboratory report indicates sample was analyzed as TPHd with silica gel cleanup on the original extraction, although the chain of custody indicated otherwise.

45 Laboratory confirmed results.

46 Primary and confirmation results varied by greater than 40% RPD. The results may still be useful for their intended purpose.

47 The surrogate recovery for this sample cannot be accuratley quantified due to interference from coeluting organic compounds present in the sample extract.

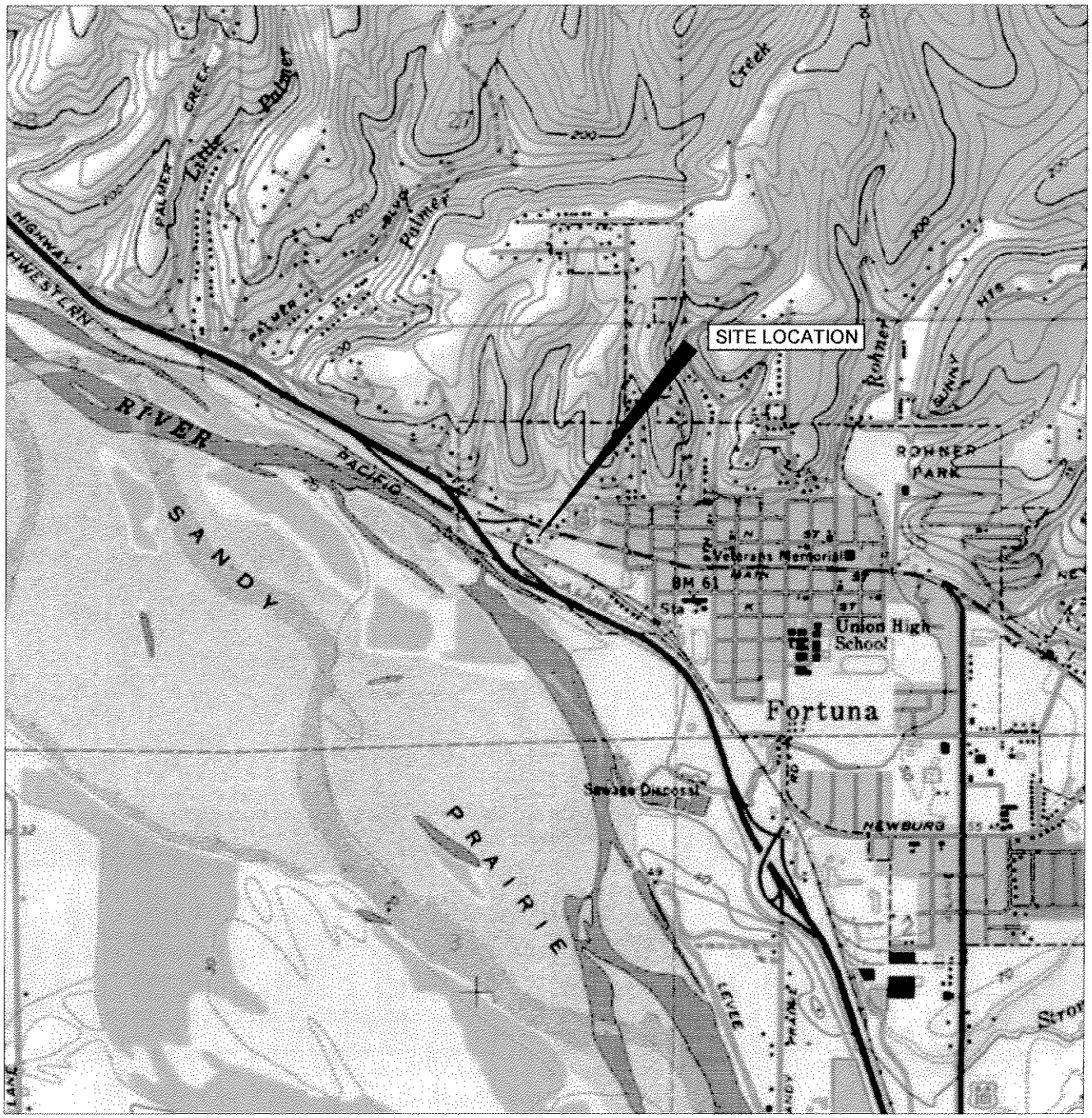
48 The surrogate recovery was outside control limits. The result may still be useful for its intended purpose.

49 Although sample contains compounds in the retention time range associated with diesel, the chromatogram was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on diesel.

50 Although sample contains compounds in the retention time range associated with gasoline, the chromatogram was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on gasoline.

51 Weathered gasoline.

NOTE: All EPA Method 8010 constituents were ND, except as noted above.



Map created with TOPO - 2003 National Geographic

MAP LOCATION

SOURCE: BASE MAP FROM USGS FORTUNA, CA
7.5 MINUTE TOPOGRAPHIC 1972

N

0 2000

Approximate Scale in Feet

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Sacramento, California 95827
Phone: (916) 362-7100
Fax: (916) 362-8100
Web: WWW.ENSR.COM

SITE LOCATION MAP

Former UNOCAL Bulk Plant 762248
359 Main Street
Fortuna, California

DRAWN BY	DATE	PROJECT NUMBER
G BORCHARDT	6/13/2005	06940-407

FIGURE

1

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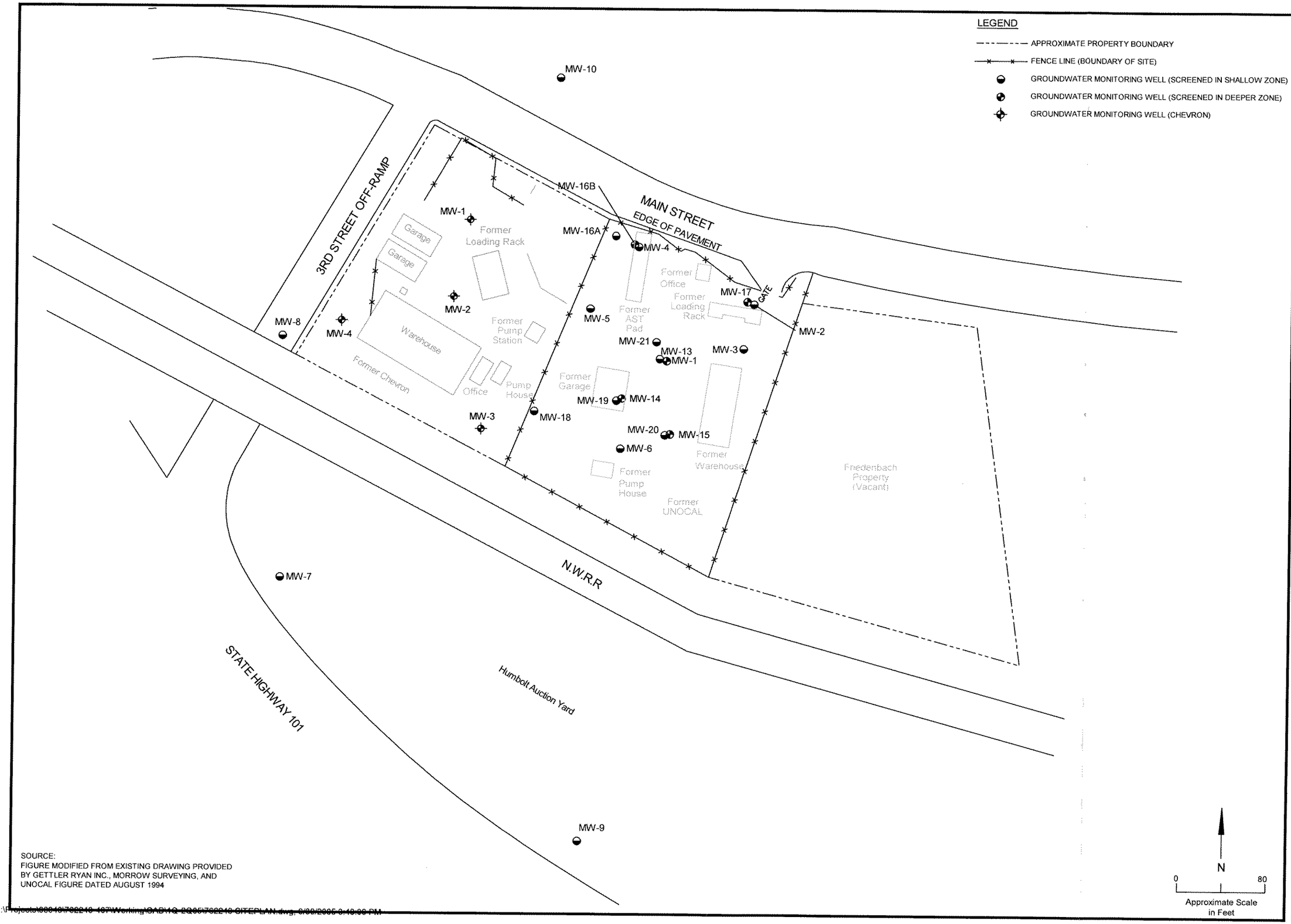

SOURCE:
FIGURE MODIFIED FROM EXISTING DRAWING PROVIDED BY GETTLER RYAN INC., MORROW SURVEYING, AND UNOCAL FIGURE DATED AUGUST 1994

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REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY: X
DRAWN BY: K.P.B.
CHECKED BY: S.W.
APPROVED BY: X

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Sacramento, California 95827
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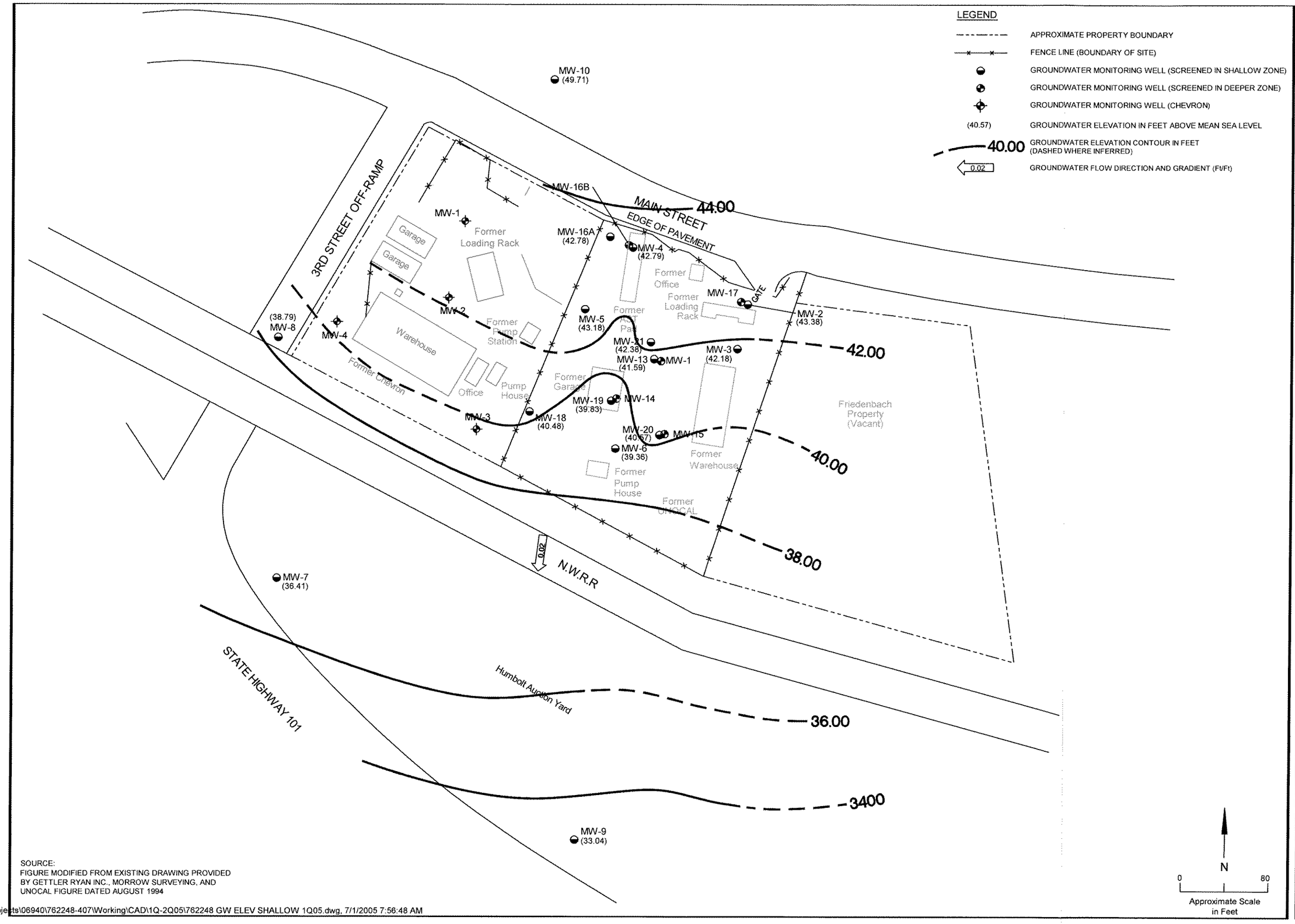
SITE MAP
FORMER UNOCAL BULK PLANT 762248
359 MAIN STREET
FORTUNA, CALIFORNIA

SCALE: 1"=80'
DATE: 4/05
PROJECT NUMBER: 06940-407-100

FIGURE NUMBER: 2
SHEET NUMBER: 1



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APPROVED BY:	X

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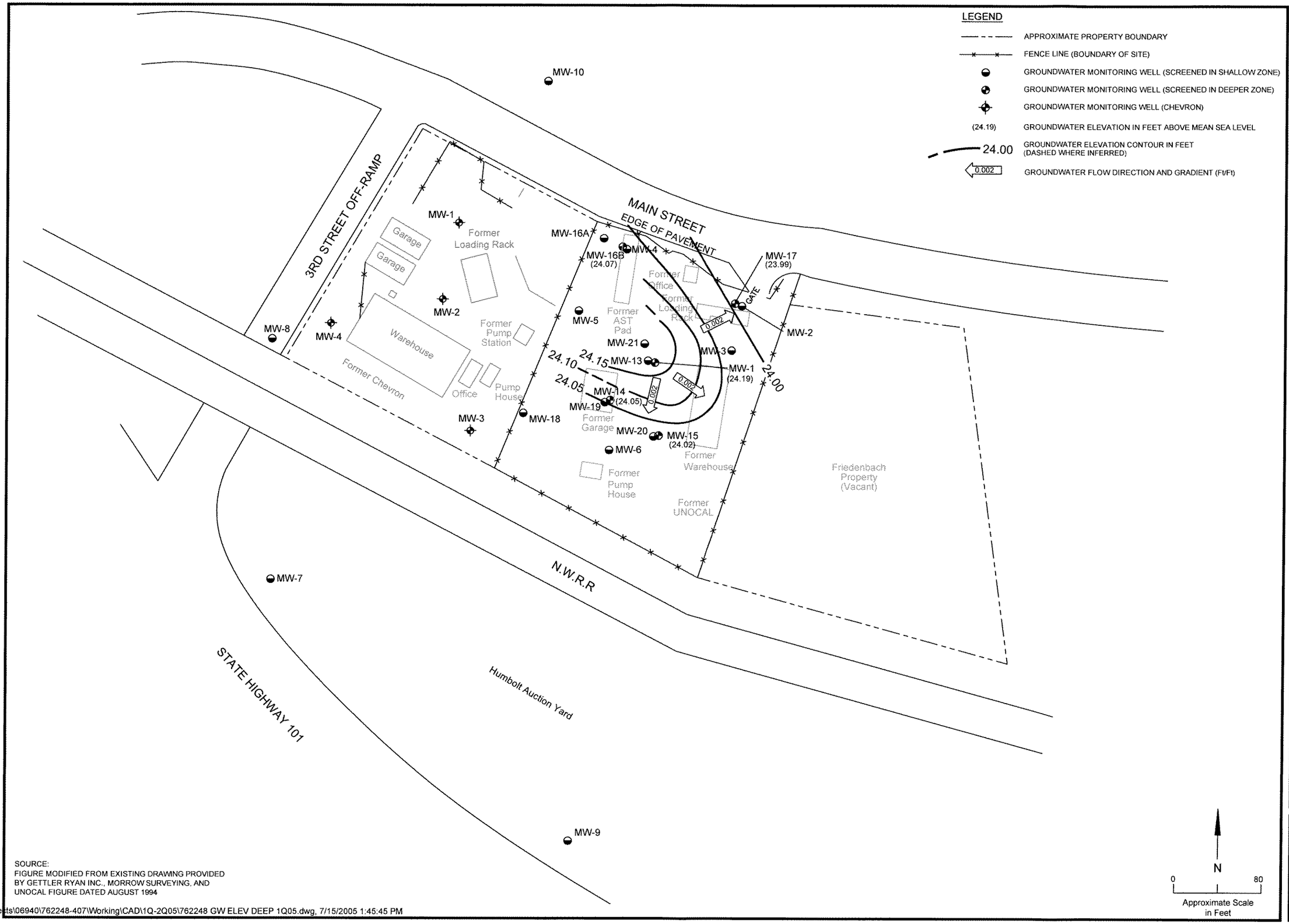
SHALLOW GROUNDWATER ELEVATION CONTOUR
FORMER UNOCAL BULK PLANT 762248
(FEBRUARY 8, 2005)
359 MAIN STREET
FORTUNA, CALIFORNIA

SCALE:	DATE:	PROJECT NUMBER:
1"=80'	4/05	06940-407-100

FIGURE NUMBER: 3

SHEET NUMBER: 1



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S.W.	K.P.B.	S.W.	X

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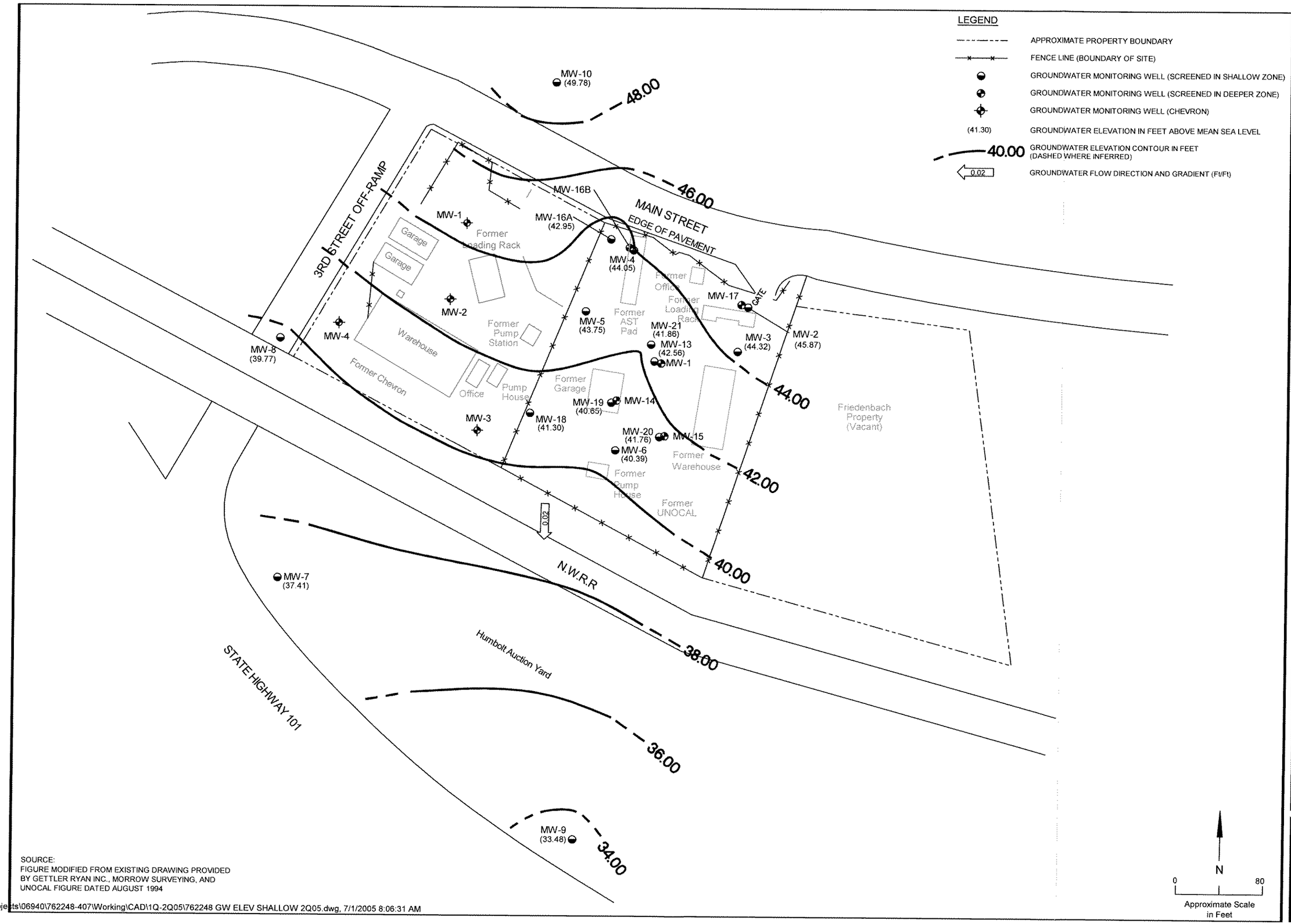
DEEP GROUNDWATER ELEVATION CONTOUR
FORMER UNOCAL BULK PLANT 762248
(FEBRUARY 8, 2005)
359 MAIN STREET
FORTUNA, CALIFORNIA

SCALE:	DATE:	PROJECT NUMBER:
1"=80'	4/05	06940-407-100

FIGURE NUMBER: **4**

SHEET NUMBER: 1



SOURCE:
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CHECKED BY: S.W.
APPROVED BY: X

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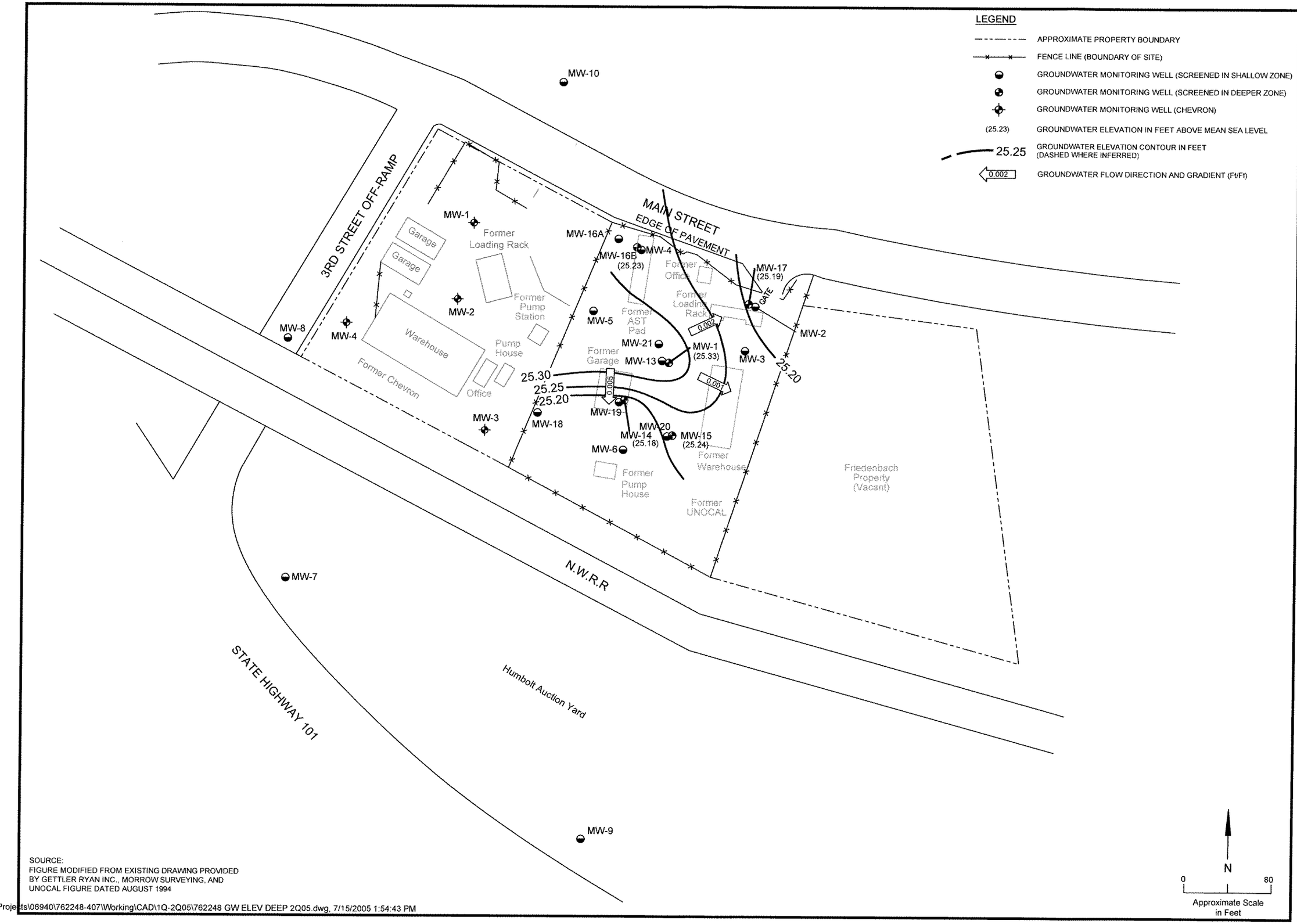
SHALLOW GROUNDWATER ELEVATION CONTOUR
FORMER UNOCAL BULK PLANT 762248
(MAY 18, 2005)
359 MAIN STREET
FORTUNA, CALIFORNIA

SCALE: 1"=80'
DATE: 4/05
PROJECT NUMBER: 06940-407-100

FIGURE NUMBER: 5

SHEET NUMBER: 1



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APPROVED BY: X

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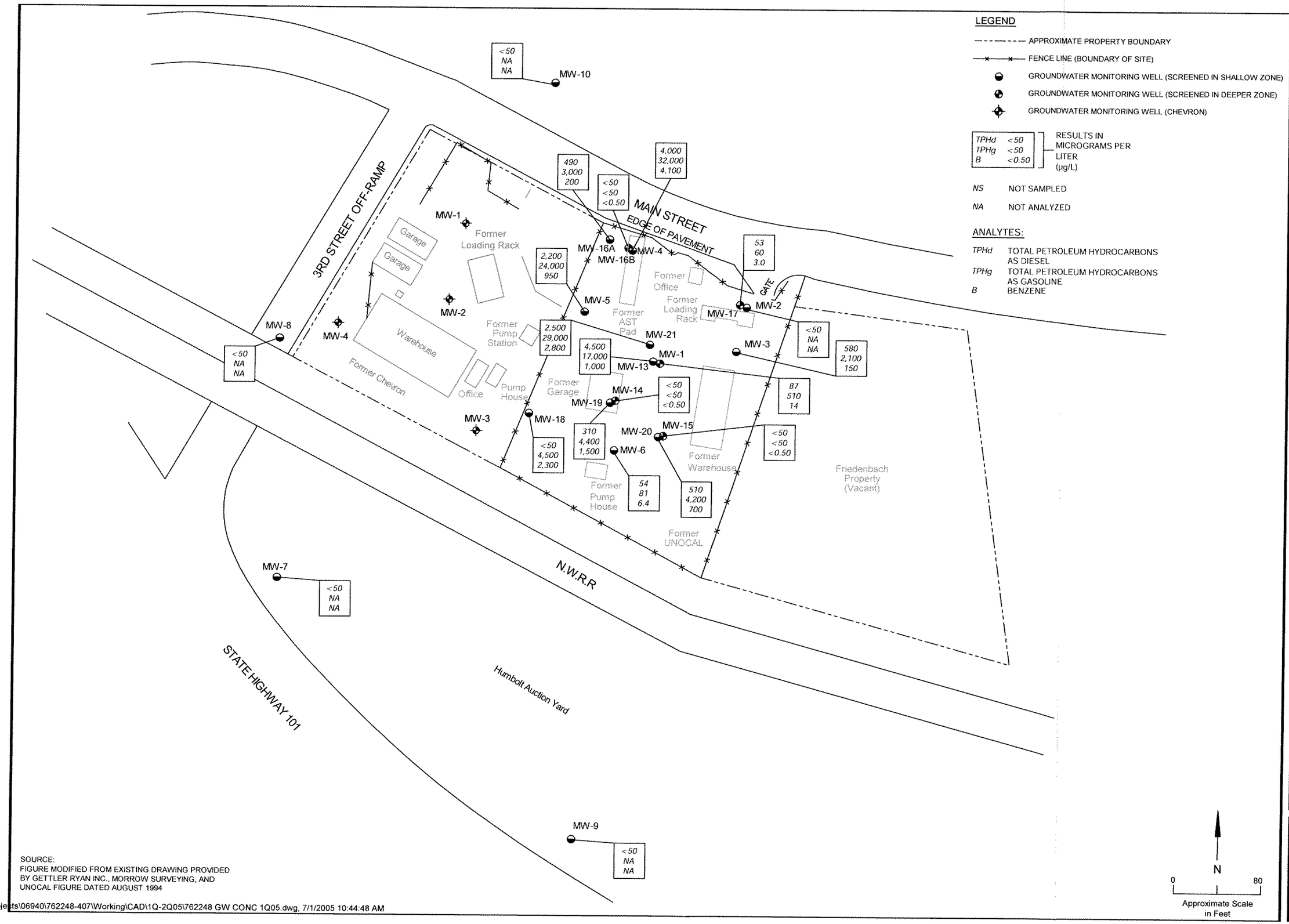
DEEP GROUNDWATER ELEVATION CONTOUR
FORMER UNOCAL BULK PLANT 762248
(MAY 18, 2005)
359 MAIN STREET
FORTUNA, CALIFORNIA

SCALE: 1"=80'
DATE: 4/05
PROJECT NUMBER: 06940-407-100

FIGURE NUMBER: 6

SHEET NUMBER: 1



SOURCE:
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CHECKED BY: S.W.
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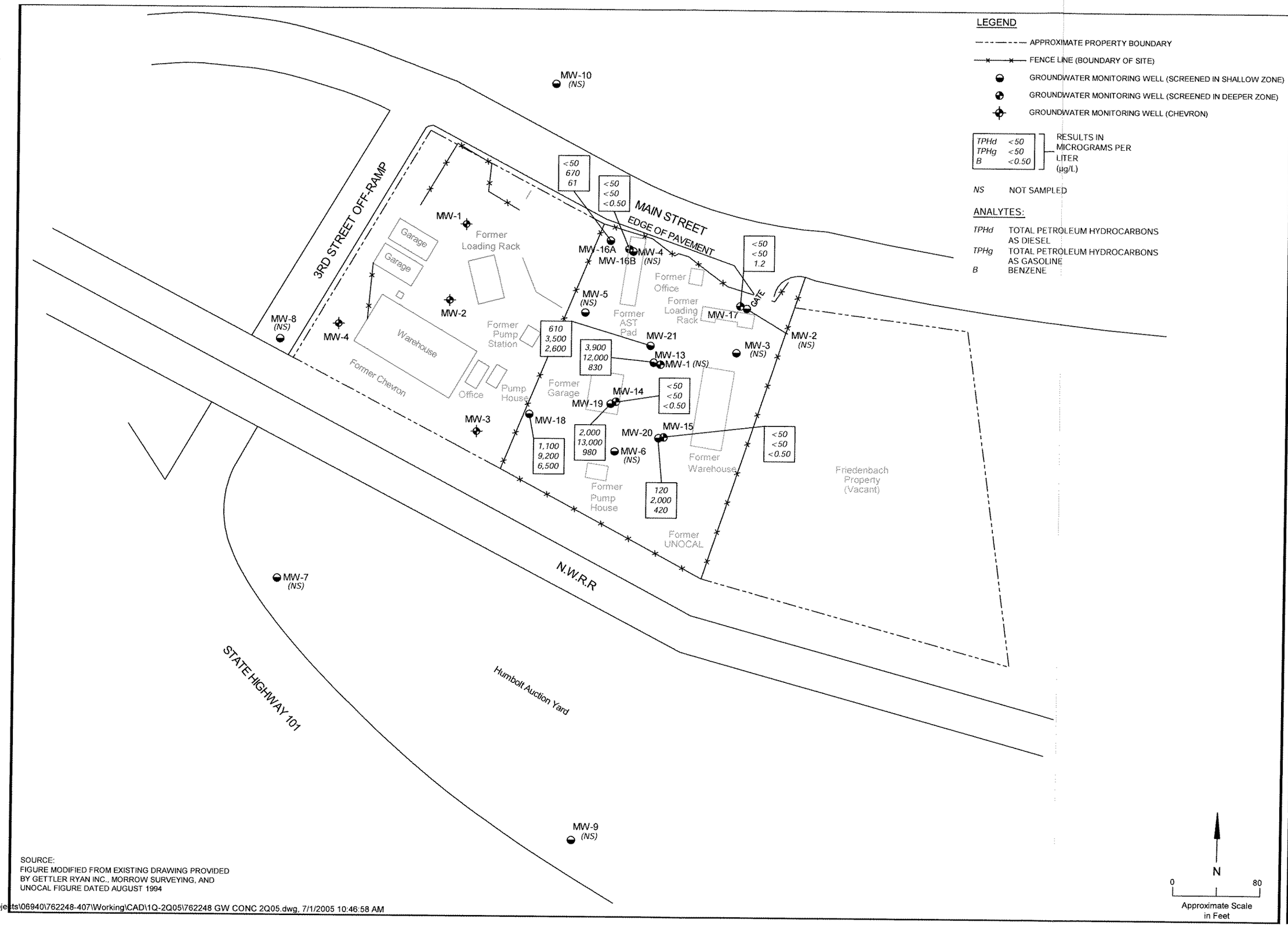
PETROLEUM HYDROCARBON
FORMER UNOCAL BULK PLANT 762248
CONCENTRATION MAP – FEBRUARY 8, 2005
359 MAIN STREET
FORTUNA, CALIFORNIA

SCALE: 1"=80'
DATE: 6/2005 PR
PROJECT NUMBER: 06940-407-100

FIGURE NUMBER: 7
SHEET NUMBER: 1



SOURCE:
FIGURE MODIFIED FROM EXISTING DRAWING PROVIDED BY GETTLER RYAN INC., MORROW SURVEYING, AND UNOCAL FIGURE DATED AUGUST 1994

J:\Projects\06940\762248-407\Working\CAD\1Q-2Q05\762248 GW CONC 2Q05.dwg, 7/1/2005 10:46:58 AM

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY: X
DRAWN BY: K.P.B.
CHECKED BY: S.W.
APPROVED BY: X

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PETROLEUM HYDROCARBON
FORMER UNOCAL BULK PLANT 762248
CONCENTRATION MAP – MAY 18, 2005
359 MAIN STREET
FORTUNA, CALIFORNIA

SCALE: 1"=80'
DATE: 6/2005 PR
PROJECT NUMBER: 06940-407-100

FIGURE NUMBER: 8

SHEET NUMBER: 1

APPENDIX A

FIELD METHODS AND PROCEDURES

FIELD METHODS AND PROCEDURES
Unocal Site #762248, 359 Main Street, Fortuna, CA (Site)
ENSR Project # 06940-407

The following section describes field procedures that are to be used by ENSR personnel in the performance and quality management of the field work and data evaluation tasks involved with this project.

1. HEALTH AND SAFETY PLAN

The performance of fieldwork and other project services by ENSR and ENSR's subcontractors will be conducted according to guidelines established in the most current, Site-specific Health and Safety Plan (HASP). The HASP describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the HASP is maintained at the Site. Prior to performing work at the Site, personnel will have read the HASP, and sign that they have read the HASP and will perform work at the Site in accordance with the HASP.

2. DECONTAMINATION

Decontamination of equipment brought to and used at the Site is performed in accordance with ENSR SOP No. 7600. The soap solution and rinse water used for decontamination are collected and properly disposed of as described in Section 8.

3. GROUNDWATER DEPTH ASSESSMENT

Initially, all wells for groundwater depth assessment are opened and allowed to equilibrate to atmospheric pressure. Measuring the thickness of liquid-phase hydrocarbons (LPH), if present, and the depth to groundwater are performed in accordance with the applicable sections of ENSR SOP No. 7130. The water level measurement probe is subjectively analyzed for LPH sheen after each measurement.

4. SUBJECTIVE ANALYSIS OF GROUNDWATER

Prior to purging for groundwater monitoring, a groundwater sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

5. GROUNDWATER SAMPLE COLLECTION

5.1 Purged Groundwater Sample

The purging and collection of a groundwater sample are performed in accordance with ENSR SOP No. 7130. Well purging completion standards include minimum purge volumes, and the stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature as described in ENSR SOP Nos. 7124, 7121, and 7123, respectively. Groundwater parameter readings are obtained at regular intervals during the purging process (no less than once per case volume).

5.2 Dissolved Oxygen Measurement

Dissolved oxygen (D.O.) readings are collected in accordance with ENSR SOP No. 7122 using HORIBA meters (e.g. HORIBA Model U-22 or equivalent D.O. meter). These meters are equipped with a stirring device that enables the collection of in-situ readings.

5.3 Oxidation Reduction Potential (Redox Potential) Measurement

Redox potential readings are obtained with HORIBA meters (e.g. HORIBA Models U-22 or equivalent ORP meter). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the manufacturer's instruction manual.

5.4 Grab Groundwater Sample Collection

A grab groundwater sample is collected by lowering a disposable bailer to sufficient depth that the length of the bailer is below the water table.

6. PACKAGING AND SHIPMENT OF SAMPLES

Soil, groundwater, and/or gas samples from field work are packaged and shipped in accordance with ENSR SOP No. 7510.

7. INVESTIGATION-DERIVED WASTE MANAGEMENT

The purge water, decontamination residuals, and aqueous-based, liquid wastes from field work are placed in 55-gallon drums and temporarily stored on-site pending evaluation of disposal options. Solid wastes, such as disposable bailers and paper wipes, generated during field work are packaged in an appropriate container and separately from liquid wastes. Final disposal is performed consistent with accepted regulatory requirements and consistent with requirements specified by Unocal.

8. QUALITY CONTROL

Quality control samples are collected and submitted for analysis. The quality control samples may include field blanks, rinsate blanks, duplicate sample(s), and matrix spike/matrix spike duplicate samples as described in Section 5.0 of ENSR SOP No. 7130.

9. DOCUMENTATION

Documentation of field work is performed consistent with Section 6.0 of ENSR SOP No. 7130 and ENSR SOP No. 7515.

APPENDIX B

GROUNDWATER SAMPLING INFORMATION SHEETS

First Quarter (dated February 7-9, 2005)
Second Quarter (dated May 18-19, 2005)

ENSR

GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet below TOC)

Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Date: 2/8/05
Recorded by: Tanya Ahoval

Well No. Sampling Order	Time Opened	CGI	PID	O2	Time Measured	Depth to Gr. Water	Measured Total Depth	Depth to Product	Product Thickness	Comments (TOC/TOB) (product skimmer in well)
MW-9	1028	NA	—	—	~~1046~~	3.99	15.51	N/A	N/A	7.5' off fence
MW-7	1102				1110	1.00	10.50	N/A	N/A	14.5' off fence Well Drains Surface water
MW-8	1123				1137	5.42	20.55	N/A	N/A	
MW-10	1140				1246	1.55	19.69	N/A	N/A	
MW-14	0946				1254	21.97	37.20	N/A	N/A	
MW-15	0957				1256	19.56	38.35	N/A	N/A	
MW-20	0956				1257	3.30	~~20.00~~	N/A	N/A	T.D. 20.15
MW-21	0952				~~1258~~	~~26.99~~ ~~26.42~~	~~20.00~~	N/A	N/A	T.D. ~~40.29~~ 20.35
MW-17	0918				1300	20.42	~~40.00~~	N/A	N/A	T.D. 40.26
MW-16B	0922				1302	27.65	~~40.00~~	N/A	N/A	T.D. 40.08
MW-2	0915				1306	7.22	22.50	N/A	N/A	
MW-6	0933				1312	5.14	16.70	N/A	N/A	
MW-19	0935				1314	5.94	~~20.00~~	N/A	N/A	T.D. 20.32
MW-3	0959				1317	6.17	24.70	N/A	N/A	
MW-13	0943				1318	6.20	17.96	N/A	N/A	
MW-5	0926				1321	6.09	14.55	N/A	N/A	
MW-4	0923				1322	9.28	19.95	N/A	N/A	
MW-1	0948				1324	23.22	38.50	N/A	N/A	Well Drained Surface water in it
MW-18	0930				1326	3.33	~~20.00~~	N/A	N/A	T.D. 20.24
MW-16A	0925				1329	8.88	~~20.00~~	N/A	N/A	T.D. 20.27 smells like solvent

Notes:

Need to meausre total depth of new wells: MW-16A, MW-16B and MW-17 through MW-21.

ENSR.

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-1**

Well [X] Piezometer [ ]

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" Grunfos

Field Tech(s): Tanya Ahoual
Weather Conditions: Sunny 70's

Casing Material: PVC
Well Diameter: 4.00 in.
Total Depth: 38.50 ft from TOC
Depth to Water: 23.22 ft from TOC
Water Column: 15.28 ft.
Water Column Volume: 10.0 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(26.27)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 24.42 @ 17:33

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1715	0 2.0	1.9	-47	15.8	37.6	6.4	91	Black/Brown		
1720	1 13.0	0.8	-9	15.9	38.3	6.3	110			
1725	2 23.0	0.8	1	16.0	39.5	5.9	74			
1730	3 33.0	0.8	1	16.0	39.4	5.8	67			
	4									

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW1	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	17:34
MW1	1	250 mL Amber	Ice	TPHd (8015M)	

Comments { 30.25 }

Signature Tanya L Ahoual Date 2/9/05

ENSR.

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: MW2

Well ☒ Piezometer ☐

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" Grunfos

Field Tech(s): Tanya Ahoual
Weather Conditions: Sunny 80's to 70's

Casing Material: PVC
Well Diameter: 4.00 in.
Total Depth: 22.50 [redacted] ft from TOC
Depth to Water: 7.22 [redacted] ft from TOC
Water Column: 15.28 [redacted] ft.
Water Column Volume: 10.0 [redacted] gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

10.22 (~~11.41~~)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 8.10.

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
12:29	0 5.0	9.2	91	15.9	17.0	5.9	32	clear		
12:32	1 14.0	7.9	135	15.7	16.5	5.6	45	clear		
12:35	2 23.0	7.6	151	15.6	16.6	5.6	37	clear		
12:37	3 32.0	7.7	160	15.6	16.8	5.6	34	clear		
	4									

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
[redacted]					~~12:34~~
[redacted]					
MW2	1	250ml Amber	ICE	TPH (8015M	12:34

Comments ~~$21.12~~ $30.25

Signature Tanya L Ahoual Date 2/9/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-3**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" Grunfos

Field Tech(s): Tanya Ahoval
Weather Conditions: Sunny 70's

Casing Material: PVC
Well Diameter: 4.00 in.
Total Depth: 24.70 ft from TOC
Depth to Water: 6.17 ft from TOC
Water Column: 18.53 ft.
Water Column Volume: 12.22 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(9.81)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 6.86 @ 1432

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1420	0	8.0	3.5	51	15.1	44.3	5.8	50			
1422	1	13.0	0.6	47	15.1	44.2	5.6	230			
1427 ~~1429~~	2	25.0	0.6	44	14.7	44.8	5.6	81			
1432 ~~1434~~	3	37.0	0.9	41	14.7	47.1	5.6	85			
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW3	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	1453 (~~1435~~)
MW3	1	250 mL Amber	Ice	TPHd (8015M)	S

Comments $36.73

Signature Tanya J Ahoval Date 2/9/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: MW4

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" Grundfos

Field Tech(s): Tanya Ahoual

Weather Conditions: Sunny Low 80's Mid 70's

Casing Material: PVC
Well Diameter: 4.00 in.
Total Depth: 19.95 [redacted] ft from TOC
Depth to Water: 9.28 [redacted] ft from TOC
Water Column: 10.67 [redacted] ft.
Water Column Volume: 7.04 [redacted] gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

11.90 ([redacted])

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 10.20

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1630	0 5.0	4.4	17	16.6	44.8	5.9	42			
1632	1 10.0	1.4	16	16.3	45.5	5.6	59			
1634	2 20.0	1.0	15	16.4	45.5	5.6	68			
1635	3 25.0	1.6	-4	16.7	540	5.6	350	Brownish		
	4									

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW4	1	250 mL Amber	Ice	TPHd (8015M)	1709
MW4	3	40mL Vials	[illegible] HCL	TPHg (8015) BTEX (8021)	1709

Comments Well went Dry @ 16:35 w/ 27.0 wait for Recovery/then Sample [redacted] 21.12

Signature Tanya J Ahoual Date 2/9/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-5**

Well ☒ Piezometer ☐

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" Grunfos

Field Tech(s): Tanya Ahoual
Weather Conditions: Sunny Low 70's

Casing Material: PVC
Well Diameter: 4.00 in.
Total Depth: 14.55 ft from TOC
Depth to Water: 6.09 ft from TOC
Water Column: 8.46 ft.
Water Column Volume: 5.58 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(7.78)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 6.79 @ 1547

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1533	0 7.0	3.5	-1	14.3	45.3	6.0	870	Black	Sulfur smell	
1535	1 7.5	1.3	-21	14.3	45.3	5.9	560	"	"	
1537	2 13.0	1.2	-27	14.4	45.6	5.9	670	"	"	Loosing Flow
1539	3 19.0	1.1	-31	14.6	45.6	5.9	710			
	4									

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW5	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	15:48
MW5	1	250 mL Amber	Ice	TPHd (8015M)	

Comments milky white paste on pump when removed Samples see photo Σ 16.75 ¾
Looks like Bentonite

Signature Tanya L Ahoual Date 2/9/05

ENSR.

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-6**

Well [x] Piezometer [ ]

Field Tech(s): Tanya Ahoval

Weather Conditions: Sunny Low 80's

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" Grunfos

Casing Material: PVC
Well Diameter: 4.00 in.
Total Depth: 16.70 ft from TOC
Depth to Water: 5.19 ft from TOC
Water Column: 11.51 ft.
Water Column Volume: 7.5 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(7.49)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 6.53 @ 1340

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1322	0	3.0	3.9	8	14.8	53.2	5.9	63			
1324	1	8.0	1.3	-1	14.7	52.8	5.8	83			
1327	2	15.0	0.8	2	14.7	52.9	5.7	100			
1330	3	23.0	0.8	4	14.9	52.3	5.5	150			
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW6	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	1341
MW6	1	250 mL Amber	Ice	TPHd (8015M)	

Comments [redacted] added 2 Bolts to well Lid

£22.83

Signature Tanya L. Ahoval Date 2/9/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-7**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 2/8/05
Purge Method: Disposable bailer/other Bailed

Field Tech(s): Tanya Ahoual

Weather Conditions: Sunny Low 60's Skattered clouds

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 10.50 ft from TOC
Depth to Water: 1.00 ft from TOC
Water Column: 9.5 ft.
Water Column Volume: 1.52 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .36
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(2.90)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 1.74 @ 17:10

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1701	0 .75	5.7	148	12.8	.197	5.9	170			
1703	1 1.6	4.5	148	13.2	.189	5.6	340			
1705	2 3.2	4.7	134	13.2	.190	5.6	650			
1708	3 5.0	3.6	123	13.4	.182	5.4	470			
	4									

Sample Collection:
Date Sampled: 2/8/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW 7	1	250 mL Amber	Ice	TPHd (8015M)	1711
~~MW 7~~					

Comments $4.53

Signature Tanya J Ahoual Date 2/8/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-8**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 2/8/05
Purge Method: Disposable bailer/other Bailed

Field Tech(s): Tanya Ahoual

Weather Conditions:

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 20.55 ft from TOC
Depth to Water: 5.42 ft from TOC
Water Column: 15.13 ft.
Water Column Volume: 2.42 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(8.44)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 8.21 @ 17:38

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1725 (0)	1.0	6.8	16	14.0	28.3	6.7	60			
1727 (1)	2.5	5.3	6	15.2	24.8	5.9	76			
1730 (2)	5.0	3.8	-6	15.7	25.8	6.0	37			
1734 (3)	7.5	5.0	-9	15.7	25.4	6.0	58			
(4)										

Sample Collection:
Date Sampled: 2/8/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW 8	1	250 mL Amber	Ice	TPHd (8015M)	1739
~~MW 9~~					

Comments ≤ 7.3 ≥

Signature Tanya J Ahoual Date 2/8/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-9**

Well [x] Piezometer [ ]

Field Tech(s): Tanya Ahoual

Weather Conditions: Sunny Low 70's mid 60's

Well Purging:
Date Purged: 2/8/05
Purge Method: Disposable bailer/other Bailed

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 15.51 ft from TOC
Depth to Water: 3.99 ft from TOC
Water Column: 11.52 ft.
Water Column Volume: 1.84 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(6.29)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 5.83 @ 1648

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1634	0 .50	5.1	38	13.0	.181	6.0	60	Green/Brn		
1637	1 2.0	5.0	6	13.1	.178	6.0	54			
1641	2 3.8	4.4	-3	13.4	.178	5.9	66			
1643	3 5.6	3.9	1	13.7	.180	5.9	72			
	4									

Sample Collection:
Date Sampled: 2/8/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW9	1	250 mL Amber	Ice	TPHd (8015M) 1649	[illegible]

Comments ∑ 5.53

Signature Tanya L Ahoual Date 2/8/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-10**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 2/8/05
Purge Method: Disposable bailer/other Bailed

Field Tech(s): Tanya Ahoual

Weather Conditions: sunset 60's

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 19.69 ft from TOC
Depth to Water: 1.55 ft from TOC
Water Column: 18.14 ft.
Water Column Volume: 2.90 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(5.17)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 4.83 @ 18:00

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1748	0 .75	6.0	160	12.5	13.8	5.7	160			
1751	1 3.0	7.6	135	12.3	13.4	5.5	330			
1755	2 6.0	4.7	197	12.4	13.3	5.2	280			
1759	3 9.0	4.9	230	12.3	13.0	5.1	350			
	4									

Sample Collection:
Date Sampled: 2/8/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW 10	1	250 mL Amber	Ice	TPHd (8015M)	1802

Comments ≤ 8.7 ≤

Signature Tanya L Ahoual Date 2/8/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-13**

Well [x] Piezometer [ ]

Field Tech(s): Tanya Ahowal

Weather Conditions: Sunny mid 60's Low 70's

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" Grunfos

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 17.96 ft from TOC
Depth to Water: 6.20 ft from TOC
Water Column: 11.76 ft.
Water Column Volume: 1.88 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(8.55)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 6.92 @ 1507

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1503	0	1.0	3.7	-20	15.2	59.8	6.1	97	clear milky		
1504	1	3.0	2.1	-25	15.3	59.2	6.1	78	clear		
1505	2	4.8	1.7	-25	15.4	57.9	6.1	64	clear		
1506	3	5.8	1.4	-26	15.5	56.5	6.1	82	clear		
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW13	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	1509
MW13	1	250 mL Amber	Ice	TPHd (8015M)	

Comments Tupad lid added 3 new Bolts {5.64}

Signature Tanya L Ahowal Date 2/9/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-14**

Well [X] Piezometer [ ]

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other DC Pump

Field Tech(s): Tanya Ahoual

Weather Conditions: Sunny 50's

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 37.20 ft from TOC
Depth to Water: 21.97 ft from TOC
Water Column: 15.23 ft.
Water Column Volume: 2.43 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(25.01)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 22.10 @ 705

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
658	0 1.0	4.1	321	15.7	44.7	5.7	over 1000			
700	1 2.6	1.8	327	15.7	44.6	5.6	670			
702	2 5.4	1.1	339	15.7	44.5	5.6	440			
704	3 7.5	0.9	344	15.7	44.6	5.6	240			
	4									

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW14	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	708
MW14	1	250 mL Amber	Ice	TPHd (8015M)	

Comments & 7.30 &

Signature Tanya L Ahoual Date 2/9/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-15**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other DC Pump

Field Tech(s): Tanya Aroual

Weather Conditions: Sunny 50's

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 38.35 ft from TOC
Depth to Water: 19.56 ft from TOC
Water Column: 18.79 ft.
Water Column Volume: 3.0 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(23.31)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 19.99 @ 7:51

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0744	0	1.0	1.8	310	15.3	44.4	5.9	93			
0746	1	3.0	1.2	314	15.3	45.3	5.8	36			
0748	2	6.0	0.9	320	15.3	45.6	5.7	23			
0750	3	9.0	0.8	322	15.3	45.7	5.7	17			
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW 15	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	752
MW15	1	250 mL Amber	Ice	TPHd (8015M)	

Comments [illegible] £9.03

Signature Tanya L Aroual Date 2/9/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-16A**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" Grundfos

Field Tech(s): Tanya Ahoual
Weather Conditions: Sunny Dark 50's

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 20.27 ~~20.90~~ ft from TOC
Depth to Water: 8.88 ft from TOC
Water Column: 11.39 ft.
Water Column Volume: 1.82 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(11.15)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 9.01 @ 18:06

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
18:01	0	.5	2.4	179	14.7	33.0	6.1	290			
18:02	1	3.0	2.1	152	14.9	36.9	6.0	300			
18:03	2	4.9	1.7	118	15.5	37.0	6.0	290			
18:04	3	6.8	1.0	112	15.6	36.9	6.0	630			
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW16A	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	18:10
MW16A	1	250 mL Amber	Ice	TPHd (8015M)	
MW16A	3	40 ~~[illegible]~~ mL ~~Amber~~ vial	~~HCL H_2SO_4~~	Total Organic Carbon (TOC)	
MW16A	1	250 mL Poly	Ice	Alkalinity as $CaCO_3$	

Comments Need to measure total well depth. {5.46}

Signature Tanya L Ahoual Date 2/9/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-16B**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" bradfos

Field Tech(s): Tanya Ahoual
Weather Conditions: Sunny 70's

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 40.68 ~~40.00~~ ft from TOC
Depth to Water: 27.65 ft from TOC
Water Column: 13.03 ft.
Water Column Volume: 2.08 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(30.25)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 28.92 @ 12:19

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1211	0	1.5	3.2	292	16.6	33.9	6.2	over 1000			
1212	1	2.5	2.0	285	16.4	34.3	6.1	over 1000			
1213	2	5.2	1.5	293	16.4	35.6	6.0	" "			
1214	3	6.8	1.2	306	16.3	35.9	6.0	" "			
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW16b	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021) 12:20	12:20
MW16b	1	250 mL Amber	Ice	TPHd (8015M)	
MW16b	3	40 ~~250~~ mL ~~Amber~~ Vial	HCL ~~H_2SO_4~~	Total Organic Carbon (TOC)	
MW16b	1	250 mL Poly	Ice	Alkalinity as $CaCO_3$	

Comments Need to measure total well depth. E6.25

Signature Tanya L Ahoual Date 2/9/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-17**

Well [x] Piezometer [ ]

Field Tech(s): Tanya Ahowal

Weather Conditions: Sunny 70's

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other DC pump

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 40.29 ~~40.00~~ ft from TOC
Depth to Water: 26.42 ft from TOC
Water Column: 13.87 ft.
Water Column Volume: 2.21 gal (WC X VF)

Volume Factor (VF)				
	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(29.19)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 27.82 @ 0931

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0926	0	2.8	7.4	86	15.7	41.5	5.9	over 1000	Brown		
0928	1	5.0	2.6	135	15.8	42.5	5.9	" "	Brown		
0930	2	7.0	2.0	157	15.9	42.3	5.9	" "			
	3										
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW17	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	0934
MW17	1	250 mL Amber	Ice	TPHd (8015M)	
MW17	3	40 ~~250~~ mL ~~Amber~~ vial	HCL ~~H_2SO_4~~	Total Organic Carbon (TOC)	
MW17	1	250 mL Poly	Ice	Alkalinity as $CaCO_3$	

Comments Need to measure total well depth. 26.73

Signature Tanya Ahowal Date 2/9/05

ENSR.

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-18**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" Grunfos

Field Tech(s): Tanya Ahoval
Weather Conditions: Sunny 70's

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 20.24 ~~20.00~~ ft from TOC
Depth to Water: 3.33 ft from TOC
Water Column: 16.91 ft.
Water Column Volume: 2.70 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(6.71)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 5.81 @ 17:50

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1746	0	1.0	2.2	123	13.6	88.6	5.9	500			
1747	1	3.0	1.3	127	13.1	87.9	5.8	280			
1748	2	5.0	2.0	130	12.8	88.1	5.8	300			
1749	3	8.5	3.5	130	12.8	91.0	5.8	450			
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW18	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	1758
MW18	1	250 mL Amber	Ice	TPHd (8015M)	
MW18	3	40 ~~250~~ mL ~~Amber~~ Vial	HCL ~~[illegible]~~	Total Organic Carbon (TOC)	
MW18	1	250 mL Poly	Ice	Alkalinity as $CaCO_3$	

Comments Need to measure total well depth. {8.11}

Signature Tanya L Ahoval Date 2/9/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-19**

Well [x] Piezometer [ ]

Field Tech(s): Tanya Ahoval

Weather Conditions: Sunny slight Breeze

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other 2" Grafos

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 20.32 ~~20.00~~ ft from TOC
Depth to Water: 5.94 ft from TOC
Water Column: 14.38 ft.
Water Column Volume: 2.30 gal (WC X VF)

Volume Factor (VF)				
Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(8.81)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 6.78 @ 1359

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1352	0	1.0	6.6	33	16.1	51.8	5.9	over 1000			
1354	1	3.5	2.1	36	15.8	57.2	5.8	900			
1356	2	6.0	1.1	29	16.2	63.6	5.8	480			
1358	3	9.0	1.0	29	16.3	63.9	5.8	300			
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW19	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	1407
MW19	1	250 mL Amber	Ice	TPHd (8015M)	1407
MW19	3	40 ~~300~~ mL ~~Amber~~ Vial	HCL ~~H_2SO_4~~	Total Organic Carbon (TOC)	1407
MW19	1	250 mL Poly	Ice	Alkalinity as $CaCO_3$	1407

Comments Need to measure total well depth. E 6.9 E

Signature Tanya Ahoval Date 2/9/05

ENSR.

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-20**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other DC Pump

Field Tech(s): Tanya Ahowal
Weather Conditions: Sunny 50's

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 20.15 ~~20.00~~ ft from TOC
Depth to Water: 3.30 ft from TOC
Water Column: 16.85 ft.
Water Column Volume: 2.69 gal (WC X VF)

Volume Factor (VF)				
	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(6.67)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 4.81 @ 0810

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0801	0	1.0	5.9	219	13.4	66.1	6.4	800	Brown		
0803	1	3.0	8.3	146	15.1	72.4	6.4	1000	over Brown		
0805	2	5.8	10.7	163	15.2	71.8	6.5	over 1000			
0807	3	8.3	10.9	166	15.3	71.9	6.5	" "			
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW2C	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	0811
MW20	1	250 mL Amber	Ice	TPHd (8015M)	
MW20	3	~~40~~ mL ~~Amber~~ Vial	Ice/ ~~H_2SO_4~~ HCL	Total Organic Carbon (TOC)	
MW20	1	250 mL Poly	Ice	Alkalinity as $CaCO_3$	

Comments Need to measure total well depth. 8.03

Signature Tanya L Ahowal Date 2/9/05

ENSR.

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-21**

Well [x] Piezometer [ ]

Field Tech(s): Tanya Ahowal

Weather Conditions: Sunny mid 50's

Well Purging:
Date Purged: 2/9/05
Purge Method: Disposable bailer/other DC pump

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 20.35 ~~20.00~~ ft from TOC
Depth to Water: 6.08 ft from TOC
Water Column: 14.27 ft.
Water Column Volume: 2.28 gal (WC X VF)

Volume Factor (VF)				
	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(8.93)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 6.23 @ 0857

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0850	0	1.0	5.6	45	14.4	74.4	6.3	over 1000			
0852	1	3.5	1.7	29	15.8	68.2	6.0	over 1000			
0854	2	5.7	7.7	31	15.8	65.4	6.3	" "			
0856	3	7.2	7.9	30	15.8	65.8	6.2	480			
	4										

Sample Collection:
Date Sampled: 2/9/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW21	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	0900
MW21	1	250 mL Amber	Ice	TPHd (8015M)	
MW21	3	40 ~~250~~ mL ~~Amber~~ vial	~~HCL+H2SO4~~	Total Organic Carbon (TOC)	
MW21	1	250 mL Poly	Ice	Alkalinity as $CaCO_3$	

Comments Need to measure total well depth. ≤ 6.85 ≤

Signature Tanya L Ahowal Date 2/9/05

ENSR

GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet below TOC)

Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Date: 5/18/05
Recorded by: Heather Tauscher / Tanya

Well No. Sampling Order	Time Opened	CGI	PID	O2	Time Measured	Depth to Gr. Water	Measured Total Depth	Depth to Product	Product Thickness	Comments (TOC/TOB) (product skimmer in well)
MW-9	1348	N/A	N/A	N/A	1451	3.55	15.51			
MW-7	1403				1415	0.00	10.50			Artisian [illegible] from 18" to [illegible]
MW-8	1412				1452	4.44	20.55			
MW-10	1418				1446	1.48	19.69			Impaired Bolts
MW-14	13:45				14:06	20.84	37.20			
MW-15	13:49				14:08	18.34	38.35			
MW-20	13:54				14:09	2.11	~20.00			20.15
MW-21	14:02				14:10	6.60	~20.00			20.35
MW-17	14:15				14:47	25.22	~40.00			40.29
MW-16B	14:19				14:48	26.49	~40.00			40.68
MW-2	14:30				14:50	4.73	22.50			
MW-6	14:36				14:52	4.16	16.70			
MW-19	14:42				14:54	5.12	~20.00			20.32 bailed lots of [illegible]
MW-3	14:32				14:56	4.03	24.70			
MW-13	14:58				15:00	5.23	17.96			
MW-5	15:03				15:07	5.52	14.55			
MW-4	15:03				15:09	8.02	19.95			
MW-1	15:06				15:14	22.08	38.50			
MW-18	15:08				15:13	2.51	~20.00			20.24
MW-16A	15:02				15:10	8.71	~20.00			20.27

Notes:

Need to meausre total depth of new wells: MW-16A, MW-16B and MW-17 through MW-21.

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-13**

Well ☒ Piezometer ☐

Field Tech(s): Heather Tauscher

Weather Conditions: raining

Well Purging:
Date Purged: 5/19/05
Purge Method: Disposable bailer/other Bailed

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 17.96 ft from TOC
Depth to Water: 5.23 ft from TOC
Water Column: 12.73 ft.
Water Column Volume: 2.03 gal (WC X VF)

Volume Factor (VF)				
	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(7.77)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 7.43 actual

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity ~~(uS/cm)~~ S/m	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
08:31	0 0.0	7.86	-96.0	16.29	49.7	6.66	119.0	clear	odor	
08:34	1 2.03	8.75	-98.0	15.63	55.6	6.55	157.0	clear	odor	
08:39	2 4.03	8.93	-89.0	15.46	53.3	6.59	185.0	clear	odor	
08:43	3 6.03	8.53	-87.0	15.47	55.0	6.61	275.0	little cloudy	odor	
	4									

Sample Collection:
Date Sampled: 5/19/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-13	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	08:56
MW-13	1	250 mL Amber	Ice	TPHd (8015M)	08:56

Comments replaced well cap + lock. (6.1)

Signature Heather Tauscher Date 5/19/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-14**

Well [X] Piezometer [ ]

Field Tech(s): Heather Tauscher

Weather Conditions: cloudy, sprinkling

Well Purging:
Date Purged: 5/18/05
Purge Method: Disposable bailer/other Bailed

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 37.20 ft from TOC
Depth to Water: 20.89 ft from TOC
Water Column: 16.31 ft.
Water Column Volume: 2.61 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 20.88 actual (24.11)

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity ~~(uS/cm)~~ S/m	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
16:00	0 0.5	9.83	140.0	17.12	45.0	6.13	104.0	Clear	no odor	
16:04	1 2.61	9.99	165.0	16.58	45.0	6.70	335.0	mostly clear	no odor	
16:11	2 5.61	9.93	181.0	16.43	44.7	6.56	642.0	Little cloudy	no odor	
16:18	3 7.81	8.42	192.0	16.50	46.2	6.54	602.0	Little cloudy	no odor	
	4									

Sample Collection:
Date Sampled: 5/18/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-14	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	~~14:46~~ 16:49
MW-14	1	250 mL Amber	Ice	TPHd (8015M)	~~14:49~~ 16:49

Comments (7.8)

Signature [signature] Date 5/18/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-15**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 5/18/05
Purge Method: Disposable bailer/other 2" Grundfos

Field Tech(s): Tanya Ahuval

Weather Conditions: Wet Raining 60's

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 38.35 ft from TOC
Depth to Water: 18.34 ft from TOC
Water Column: 20.01 ft.
Water Column Volume: 3.2 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(22.34)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 19.21 Actual

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1600	0 .50	10.01	163	16.42	0.41	6.53	39.4			
1608	1 4.0	3.33	125	15.33	0.45	6.33	over loaded			
1616	2 8.0	6.24	126	15.73	0.48	6.67	" "			
1643	3 9.8	5.11	116	15.64	0.49	6.56	" "			
	4									

Sample Collection:
Date Sampled: 5/18/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW15	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	1645
MW15	1	250 mL Amber	Ice	TPHd (8015M)	1645

Comments (9.6)

Signature Tanya J Ahuval Date 5/18/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-16A**

Well [x] Piezometer [ ]

Field Tech(s): Tanya Ahoual

Weather Conditions: Wet Drizzle 60's

Well Purging:
Date Purged: 5-19-05
Purge Method: Disposable bailer/other Bailed

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 20.27 ~~20.00~~ ft from TOC
Depth to Water: 8.71 ft from TOC
Water Column: 11.56 ft.
Water Column Volume: 1.84 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(11.02)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 10.99

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0754	0 .75	6.84	211	15.04	0.57	5.55	5.44			
0757	1 2.0	5.91	105	14.96	0.44	6.14	999			
0800	2 4.0	7.77	63	14.95	0.48	6.28	999			
0803	3 6.0	7.16	48	15.05	0.31	6.36	999			
	4									

Sample Collection:
Date Sampled: 5-19-05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW16A	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	0803
MW16A	1	250 mL Amber	Ice	TPHd (8015M)	

Comments Need to measure total well depth. (5.5)

Signature [signature] Date 5-19-05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-16B**

Well [x] Piezometer [ ]

Field Tech(s): Tanya Abouai

Weather Conditions: wet 50's

Well Purging:
Date Purged: 5-19-05
Purge Method: Disposable bailer/other Bailed

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 40.68 ~~40.00~~ ft from TOC (29.32)
Depth to Water: 26.33 ft from TOC
Water Column: 14.19 ft.
Water Column Volume: 3.27 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 26.35

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0826	0 .75	5.96	74	15.0	0.36	6.32	999			
0831	1 2.4	5.94	85	15.9	0.37	6.30	999			
0839	2 4.6	5.41	90	15.8	0.36	6.32	999			
	3	5.63	112	15.9	0.36	6.27	999			
	4									

Sample Collection:
Date Sampled: 5-19-05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW16B	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	0851
MW16B	1	250 mL Amber	Ice	TPHd (8015M)	

Comments Need to measure total well depth. (6.8)

Signature Tanya L. Abouai Date 5/19/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-17**

Well [x] Piezometer [ ]

Well Purging:
Date Purged: 5-19-05
Purge Method: Disposable bailer/other 12" Grundfos

Field Tech(s): Tanya Atwell

Weather Conditions: Sunny/low 60's

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 40.29 ~~40.00~~ ft from TOC
Depth to Water: 25.22 ft from TOC
Water Column: 15.07 ft.
Water Column Volume: 2.41 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(28.23)

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 25.03

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0933	0 2.5	14.51	190	16.04	0.41	5.75	999			
0935	1 5.0	6.72	190	16.08	0.41	5.73	999			
0937	2 7.5	3.57	190	16.09	0.41	5.72	476			
	3									
	4									

Sample Collection:
Date Sampled: 5-19-05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW17	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	0947
MW17	1	250 mL Amber	Ice	TPHd (8015M)	

Comments Need to measure total well depth. (7.2)

Signature Tanya L Atwell Date 5-19-05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-18**

Well ☒ Piezometer ☐

Field Tech(s): Heather Tausker

Weather Conditions: raining

Well Purging:
Date Purged: 5/19/05
Purge Method: Disposable bailer/other Bailed

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 20.24 ~~20.00~~ ft from TOC
Depth to Water: 2.51 ft from TOC
Water Column: 17.73 ft.
Water Column Volume: 2.83 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

(4.05

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity ~~(uS/cm)~~ S/m	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
07:46	0 0.5	10.84	194.0	16.14	27.1	4.60	63.3	clear	no odor	
07:51	1 2.83	10.44	131.0	14.78	68.2	5.28	-5.0	cloudy	no odor	
07:55	2 5.83	10.54	103.0	14.33	72.3	6.09	-5.0	cloudy	no odor	
08:00	3 8.5.3	9.72	83.0	14.25	73.8	6.12	-5.0	cloudy	no odor	
	4									

Sample Collection:
Date Sampled: 5/19/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-18	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	08:10
MW-18	1	250 mL Amber	Ice	TPHd (8015M)	

Comments Need to measure total well depth. replaced lock (8.5)

Signature [signature] Date 5/19/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-19**

Well ☒ Piezometer ☐

Field Tech(s): Heather Tausher

Weather Conditions: cloudy, sprinkling

Well Purging:
Date Purged: 5/19/05
Purge Method: Disposable bailer/other Bailed

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 20.32 ~~20.00~~ ft from TOC
Depth to Water: 5.12 ft from TOC
Water Column: 15.2 ft.
Water Column Volume: 2.4 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 8.09 actual (8.16)

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity ~~(uS/cm)~~ S/m	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
09:07	0	0.5	8.25	-101	16.37	63.8	6.78	464.0	mostly clear	no odor	
09:13	1	2.4	8.47	-93	16.14	61.8	6.60	-5.0	cloudy	odor	
09:17	2	4.4	8.59	-93	15.95	62.6	6.62	-5.0	cloudy	odor	
09:21	3	7.2	8.30	-84	15.97	64.1	6.67	-5.0	cloudy	odor	
	4										

Sample Collection:
Date Sampled: 5/19/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-19	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	09:36
MW-19	1	250 mL Amber	Ice	TPHd (8015M)	09:36

Comments Need to measure total well depth. replaced well lock (7.2)

Signature Heather Tausher Date 5/19/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-20**

Well [x] Piezometer [ ]

Field Tech(s): Tanya Ahuja

Weather Conditions: Wet Raining

Well Purging:
Date Purged: 5/18/05
Purge Method: Disposable bailer/other 2" Grundfos

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 20.15 ~~20.00~~ ft from TOC
Depth to Water: 2.11 ft from TOC
Water Column: 18.09 ft.
Water Column Volume: 2.88 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 3.81 Actual (5.11)

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1704	0 15	1.90	53	16.77	0.69	6.40	521			
1706	1 4.5	0.00	26	15.99	0.75	6.25	543			
1708	2 7.5	0.00	18	15.42	0.78	6.13	587			
1710	3 10.5	2.43	11	15.43	0.74	6.28	802			
	4									

Sample Collection:
Date Sampled: 5/18/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW20	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	1733
MW20	1	250 mL Amber	Ice	TPHd (8015M)	

Comments Need to measure total well depth. (18.6)

Signature Tanya Ahuja Date 5/18/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 359 Main St., Fortuna, CA
ENSR No. 06940-407-100
Unocal No. 762248

Well/Piezo ID: **MW-21**

Well [x] Piezometer [ ]

Field Tech(s): Heather Tauscher

Weather Conditions: cloudy, sprinkling

Well Purging:
Date Purged: 5/18/05
Purge Method: Disposable bailer/other bailed

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: ~~20.00~~ 20.35 ft from TOC
Depth to Water: 6.6 ft from TOC
Water Column: 13.75 ft.
Water Column Volume: 2.2 gal (WC X VF)

Volume Factor (VF)				
	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 16.79 actual (19.35)

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity ~~(uS/cm)~~ S/m	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
16:22	0	0.6	9.64	102.0	16.59	44.1	5.96	497.0	little cloudy	no odor	
16:31	1	2.7	8.60	46.0	16.29	49.3	6.20	-5.0	cloudy	no odor	
16:34	2	4.7	8.41	-4.0	16.30	56.9	6.32	-5.0	cloudy	no odor	
16:41	3	6.7	7.95	-22.0	16.20	58.8	6.32	-5.0	cloudy	no odor	
	4										

Sample Collection:
Date Sampled: 5/18/05
Sampling Method: Disposable Bailer/Other bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-21	3	40 mL glass vial	Ice/HCl	TPHg (8015), BTEX (8021)	~~14:45~~ 16:45
MW-21	1	250 mL Amber	Ice	TPHd (8015M)	~~14:45~~ 16:45

Comments Need to measure total well depth. 6.6

Signature [signature] Date 5/18/05

ENSR INTERNATIONAL

CHAIN OF CUSTODY

Lab: CLS

TAT: Standard

Report results to:

Name	Margret Riggin
Company	ENSR
Mailing Address	10411 Old Placerville Road, Suite 210
City, State, Zip	Sacramento, CA 95827-2508
Telephone No.	916-362-7100
Fax No.	916-362-8100

Project Information

Site Address:	359 Main St., Fortuna, CA
ENSR No.	06940-407-100
Unocal No.	762248
Global ID No.	T0602393213

Special instructions and/or specific regulatory requirements:
***Run TPHd w/ Silica Gel Cleanup on ALL TPHd HITS**

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	TPHg 8015	BTEX 8021	TPHd 8015 w/SGC									Sample Condition/Comments	Preservative
MW-13	5/19/05	0856	GW	4	X	X	X										Ice/HCL
MW-14	5/18/05	~~1449~~ 88 16:49	GW	4	X	X	X										Ice/HCL
MW-15	5/18/05	1645	GW	4	X	X	X										Ice/HCL
MW-16A	5/19/05	0808	GW	4	X	X	X										Ice/HCL
MW-16B	5/19/05	0851	GW	4	X	X	X										Ice/HCL
MW-17	5/19/05	0947	GW	4	X	X	X										Ice/HCL
MW-18	5/19/05	0810	GW	4	X	X	X										Ice/HCL
MW-19	5/19/05	0936	GW	4	X	X	X										Ice/HCL
MW-20	5/18/05	1733	GW	4	X	X	X										Ice/HCL
MW-21	5/18/05	~~1445~~ 88	GW	4	X	X	X										Ice/HCL
Trip Blank		1645	water	1	X	X											Ice

Collected by: Tanya Ahoual/Heather *Date/Time* 5/19/05
Relinquished by: Heather Zausch *Date/Time* 5/20/05
Relinquished by: *Date/Time*
Method of Shipment:

Collector's Signature: Heather Zausch *Date/Time* 5/19/05
Received by: Michael [illegible] *Date/Time* 5-20-05 12:00
Received by: *Date/Time*
Sample Condition on Rcpt:

APPENDIX C

LABORATORY ANALYTICAL RESULTS WITH CHAIN-OF-CUSTODY DOCUMENTATION

First Quarter Data (CLS report dated April 15, 2005)
Second Quarter Data (CLS report dated June 01, 2005)

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

April 15, 2005

CLS Work Order #: COB0433
COC #: None

John Warren
ENSR - Sacramento
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508

Project Name: Frmr. Unocal 762248-359 Main St.
Fortuna,CA

Enclosed are the results of analyses for samples received by the laboratory on 02/12/05 11:10. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

04/15/05 13:24

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-16A (COB0433-14) Water Sampled: 02/09/05 18:10 Received: 02/12/05 11:10									
Total Alkalinity	**110**	5.0	mg/L	1	CO01319	02/18/05	02/18/05	EPA 310.1	
Bicarbonate as CaCO3	**110**	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Total Organic Carbon	**2.3**	1.0	"	"	CO01247	02/17/05	02/17/05	EPA 415.1	
MW-16B (COB0433-15) Water Sampled: 02/09/05 12:20 Received: 02/12/05 11:10									
Total Alkalinity	**140**	5.0	mg/L	1	CO01319	02/18/05	02/18/05	EPA 310.1	
Bicarbonate as CaCO3	**140**	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Total Organic Carbon	**5.3**	1.0	"	"	CO01247	02/17/05	02/17/05	EPA 415.1	
MW-17 (COB0433-16) Water Sampled: 02/09/05 09:34 Received: 02/12/05 11:10									
Total Alkalinity	**170**	5.0	mg/L	1	CO01319	02/18/05	02/18/05	EPA 310.1	
Bicarbonate as CaCO3	**170**	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Total Organic Carbon	**4.9**	1.0	"	"	CO01247	02/17/05	02/21/05	EPA 415.1	
MW-18 (COB0433-17) Water Sampled: 02/09/05 17:58 Received: 02/12/05 11:10									
Total Alkalinity	**520**	5.0	mg/L	1	CO01319	02/18/05	02/18/05	EPA 310.1	
Bicarbonate as CaCO3	**520**	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Total Organic Carbon	**13**	1.0	"	"	CO01247	02/17/05	02/21/05	EPA 415.1	

CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-19 (COB0433-18) Water Sampled: 02/09/05 14:07 Received: 02/12/05 11:10									
Total Alkalinity	**340**	5.0	mg/L	1	CO01319	02/18/05	02/18/05	EPA 310.1	
Bicarbonate as CaCO3	**340**	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Total Organic Carbon	**14**	1.0	"	"	CO01247	02/17/05	02/21/05	EPA 415.1	
MW-20 (COB0433-19) Water Sampled: 02/09/05 08:11 Received: 02/12/05 11:10									
Total Alkalinity	**360**	5.0	mg/L	1	CO01319	02/18/05	02/18/05	EPA 310.1	
Bicarbonate as CaCO3	**360**	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Total Organic Carbon	**20**	1.0	"	"	CO01247	02/17/05	02/21/05	EPA 415.1	
MW-21 (COB0433-20) Water Sampled: 02/09/05 09:00 Received: 02/12/05 11:10									
Total Alkalinity	**360**	5.0	mg/L	1	CO01319	02/18/05	02/18/05	EPA 310.1	
Bicarbonate as CaCO3	**360**	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Total Organic Carbon	**13**	1.0	"	"	CO01247	02/17/05	02/21/05	EPA 415.1	

CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (COB0433-01) Water	**Sampled: 02/09/05 17:34**	**Received: 02/12/05 11:10**							**C-03C**
Diesel	**0.087**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1
MW-2 (COB0433-02) Water	**Sampled: 02/09/05 12:39**	**Received: 02/12/05 11:10**							
Diesel	ND	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	
MW-3 (COB0433-03) Water	**Sampled: 02/09/05 14:53**	**Received: 02/12/05 11:10**							**C-03C**
Diesel	**0.58**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1
MW-4 (COB0433-04) Water	**Sampled: 02/09/05 17:09**	**Received: 02/12/05 11:10**							**C-03C**
Diesel	**4.0**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1
MW-5 (COB0433-05) Water	**Sampled: 02/09/05 15:48**	**Received: 02/12/05 11:10**							**C-03C**
Diesel	**2.2**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1
MW-6 (COB0433-06) Water	**Sampled: 02/09/05 13:41**	**Received: 02/12/05 11:10**							**C-03C**
Diesel	**0.054**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1
MW-7 (COB0433-07) Water	**Sampled: 02/08/05 17:11**	**Received: 02/12/05 11:10**							
Diesel	ND	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	
MW-8 (COB0433-08) Water	**Sampled: 02/08/05 17:39**	**Received: 02/12/05 11:10**							
Diesel	ND	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	
MW-9 (COB0433-09) Water	**Sampled: 02/08/05 16:49**	**Received: 02/12/05 11:10**							
Diesel	ND	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	

CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (COB0433-10) Water Sampled: 02/08/05 18:02 Received: 02/12/05 11:10									
Diesel	ND	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	
MW-13 (COB0433-11) Water Sampled: 02/09/05 15:09 Received: 02/12/05 11:10									**C-03C**
Diesel	**4.5**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1
MW-14 (COB0433-12) Water Sampled: 02/09/05 07:08 Received: 02/12/05 11:10									
Diesel	ND	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	
MW-15 (COB0433-13) Water Sampled: 02/09/05 07:52 Received: 02/12/05 11:10									
Diesel	ND	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	
MW-16A (COB0433-14) Water Sampled: 02/09/05 18:10 Received: 02/12/05 11:10									**C-03C**
Diesel	**0.49**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1
MW-16B (COB0433-15) Water Sampled: 02/09/05 12:20 Received: 02/12/05 11:10									
Diesel	ND	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	
MW-17 (COB0433-16) Water Sampled: 02/09/05 09:34 Received: 02/12/05 11:10									**C-03C**
Diesel	**0.053**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1
MW-18 (COB0433-17) Water Sampled: 02/09/05 17:58 Received: 02/12/05 11:10									**C-03C**
Diesel	ND	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	
MW-19 (COB0433-18) Water Sampled: 02/09/05 14:07 Received: 02/12/05 11:10									**C-03C**
Diesel	**0.31**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1

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04/15/05 13:24

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-20 (COB0433-19) Water	**Sampled: 02/09/05 08:11**	**Received: 02/12/05 11:10**							**C-03C**
Diesel	**0.51**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1
MW-21 (COB0433-20) Water	**Sampled: 02/09/05 09:00**	**Received: 02/12/05 11:10**							**C-03C**
Diesel	**2.5**	0.050	mg/L	1	CO01141	02/14/05	02/16/05	EPA 8015M	DSL-1

CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (COB0433-01) Water Sampled: 02/09/05 17:34 Received: 02/12/05 11:10									
Gasoline	**570**	50	µg/L	1	CO01191	02/15/05	02/15/05	8015M/8021B	
Benzene	**14**	0.50	"	"	"	"	"	"	
Toluene	**90**	2.5	"	5	"	"	02/16/05	"	
Ethylbenzene	**6.3**	0.50	"	1	"	"	02/15/05	"	
Xylenes (total)	**150**	5.0	"	5	"	"	02/16/05	"	
Surrogate: o-Chlorotoluene (Gas)		*102 %*	*65-135*		"	"	*02/15/05*	"	
MW-3 (COB0433-03) Water Sampled: 02/09/05 14:53 Received: 02/12/05 11:10									
Gasoline	**2100**	250	µg/L	5	CO01191	02/15/05	02/15/05	8015M/8021B	GC-25
Benzene	**150**	2.5	"	"	"	"	"	"	
Toluene	**3.1**	2.5	"	"	"	"	"	"	
Ethylbenzene	**12**	2.5	"	"	"	"	"	"	
Xylenes (total)	**160**	5.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*90.5 %*	*65-135*		"	"	"	"	
MW-4 (COB0433-04) Water Sampled: 02/09/05 17:09 Received: 02/12/05 11:10									
Gasoline	**32000**	5000	µg/L	100	CO01191	02/15/05	02/15/05	8015M/8021B	
Benzene	**4100**	50	"	"	"	"	"	"	
Toluene	**4500**	50	"	"	"	"	"	"	
Ethylbenzene	**860**	50	"	"	"	"	"	"	
Xylenes (total)	**5100**	100	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*95.5 %*	*65-135*		"	"	"	"	
MW-5 (COB0433-05) Water Sampled: 02/09/05 15:48 Received: 02/12/05 11:10									
Gasoline	**24000**	5000	µg/L	100	CO01191	02/15/05	02/15/05	8015M/8021B	
Benzene	**950**	50	"	"	"	"	"	"	
Toluene	**1000**	50	"	"	"	"	"	"	
Ethylbenzene	**310**	50	"	"	"	"	"	"	
Xylenes (total)	**5300**	100	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*98.0 %*	*65-135*		"	"	"	"	

CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (COB0433-06) Water Sampled: 02/09/05 13:41 Received: 02/12/05 11:10									
Gasoline	**81**	50	µg/L	1	CO01246	02/16/05	02/16/05	8015M/8021B	GC-25
Benzene	**6.4**	0.50	"	"	"	"	"	"	
Toluene	**0.77**	0.50	"	"	"	"	"	"	
Ethylbenzene	**0.66**	0.50	"	"	"	"	"	"	
Xylenes (total)	**1.1**	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*97.0 %*	*65-135*		"	"	"	"	
MW-13 (COB0433-11) Water Sampled: 02/09/05 15:09 Received: 02/12/05 11:10									
Gasoline	**17000**	2500	µg/L	50	CO01246	02/16/05	02/16/05	8015M/8021B	GC-25
Benzene	**1000**	25	"	"	"	"	"	"	
Toluene	**210**	25	"	"	"	"	"	"	
Ethylbenzene	**1100**	25	"	"	"	"	"	"	
Xylenes (total)	**3800**	50	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*97.5 %*	*65-135*		"	"	"	"	
MW-14 (COB0433-12) Water Sampled: 02/09/05 07:08 Received: 02/12/05 11:10									
Gasoline	ND	50	µg/L	1	CO01246	02/16/05	02/16/05	8015M/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	**0.57**	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*96.5 %*	*65-135*		"	"	"	"	
MW-15 (COB0433-13) Water Sampled: 02/09/05 07:52 Received: 02/12/05 11:10									
Gasoline	ND	50	µg/L	1	CO01246	02/16/05	02/16/05	8015M/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*93.0 %*	*65-135*		"	"	"	"	

CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-16A (COB0433-14) Water Sampled: 02/09/05 18:10 Received: 02/12/05 11:10									
Gasoline	**3000**	500	µg/L	10	CO01246	02/16/05	02/16/05	8015M/8021B	GC-25
Benzene	**200**	5.0	"	"	"	"	"	"	
Toluene	**220**	5.0	"	"	"	"	"	"	
Ethylbenzene	**68**	5.0	"	"	"	"	"	"	
Xylenes (total)	**520**	10	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*95.0 %*	*65-135*		"	"	"	"	
MW-16B (COB0433-15) Water Sampled: 02/09/05 12:20 Received: 02/12/05 11:10									
Gasoline	ND	50	µg/L	1	CO01246	02/16/05	02/16/05	8015M/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	**0.58**	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**1.7**	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*92.0 %*	*65-135*		"	"	"	"	
MW-17 (COB0433-16) Water Sampled: 02/09/05 09:34 Received: 02/12/05 11:10									
Gasoline	**60**	50	µg/L	1	CO01244	02/16/05	02/16/05	8015M/8021B	GC-25
Benzene	**3.0**	0.50	"	"	"	"	"	"	
Toluene	**2.7**	0.50	"	"	"	"	"	"	
Ethylbenzene	**1.9**	0.50	"	"	"	"	"	"	
Xylenes (total)	**7.0**	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*101 %*	*65-135*		"	"	"	"	
MW-18 (COB0433-17) Water Sampled: 02/09/05 17:58 Received: 02/12/05 11:10									
Gasoline	**4500**	500	µg/L	10	CO01244	02/16/05	02/16/05	8015M/8021B	GC-25
Benzene	**2300**	50	"	100	"	"	02/17/05	"	
Toluene	**4.5**	0.50	"	1	"	"	02/16/05	"	
Ethylbenzene	**47**	0.50	"	"	"	"	"	"	
Xylenes (total)	**89**	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*98.0 %*	*65-135*		"	"	"	"	

CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-19 (COB0433-18) Water Sampled: 02/09/05 14:07 Received: 02/12/05 11:10									
Gasoline	**4400**	500	µg/L	10	CO01244	02/16/05	02/16/05	8015M/8021B	GC-25
Benzene	**1500**	50	"	100	"	"	02/17/05	"	
Toluene	**2.0**	0.50	"	1	"	"	02/16/05	"	
Ethylbenzene	**43**	0.50	"	"	"	"	"	"	
Xylenes (total)	**150**	10	"	10	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*98.0 %*	*65-135*		"	"	"	"	
MW-20 (COB0433-19) Water Sampled: 02/09/05 08:11 Received: 02/12/05 11:10									
Gasoline	**4200**	500	µg/L	10	CO01244	02/16/05	02/16/05	8015M/8021B	GC-25
Benzene	**700**	50	"	100	"	"	02/17/05	"	
Toluene	**220**	5.0	"	10	"	"	02/16/05	"	
Ethylbenzene	**110**	5.0	"	"	"	"	"	"	
Xylenes (total)	**590**	10	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*98.5 %*	*65-135*		"	"	"	"	
MW-21 (COB0433-20) Water Sampled: 02/09/05 09:00 Received: 02/12/05 11:10									
Gasoline	**29000**	2500	µg/L	50	CO01244	02/16/05	02/16/05	8015M/8021B	GC-25
Benzene	**2800**	250	"	500	"	"	"	"	
Toluene	**1300**	25	"	50	"	"	"	"	
Ethylbenzene	**1300**	25	"	"	"	"	"	"	
Xylenes (total)	**5200**	500	"	500	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*91.0 %*	*65-135*		"	"	"	"	
QA (COB0433-21) Water Sampled: 01/25/05 12:00 Received: 02/12/05 11:10									**HT-1**
Gasoline	ND	50	µg/L	1	CO01244	02/16/05	02/16/05	8015M/8021B	
Benzene	ND	0.50	"	"	"	"	02/17/05	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*108 %*	*65-135*		"	"	*02/16/05*	"	

CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO01247 - General Preparation										
Blank (CO01247-BLK1)				Prepared & Analyzed: 02/17/05						
Total Organic Carbon	ND	1.0	mg/L							
LCS (CO01247-BS1)				Prepared & Analyzed: 02/17/05						
Total Organic Carbon	9.89	1.0	mg/L	10.0		98.9	75-125			
LCS Dup (CO01247-BSD1)				Prepared & Analyzed: 02/17/05						
Total Organic Carbon	10.2	1.0	mg/L	10.0		102	75-125	3.09	25	
Matrix Spike (CO01247-MS1)		**Source: COB0470-01**		Prepared & Analyzed: 02/17/05						
Total Organic Carbon	26.4	1.0	mg/L	10.0	17	94.0	75-125			
Matrix Spike Dup (CO01247-MSD1)		**Source: COB0470-01**		Prepared & Analyzed: 02/17/05						
Total Organic Carbon	26.6	1.0	mg/L	10.0	17	96.0	75-125	0.755	25	
Batch CO01319 - General Preparation										
Blank (CO01319-BLK1)				Prepared & Analyzed: 02/18/05						
Total Alkalinity	ND	5.0	mg/L							
Bicarbonate as CaCO3	ND	5.0	"							
Carbonate as CaCO3	ND	5.0	"							
Hydroxide as CaCO3	ND	5.0	"							
Blank (CO01319-BLK2)				Prepared & Analyzed: 02/18/05						
Total Alkalinity	ND	5.0	mg/L							
Bicarbonate as CaCO3	ND	5.0	"							
Carbonate as CaCO3	ND	5.0	"							
Hydroxide as CaCO3	ND	5.0	"							

CALIFORNIA LABORATORY SERVICES

04/15/05 13:24

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO01141 - EPA 3510B GCNV										
Blank (CO01141-BLK1)				Prepared: 02/14/05 Analyzed: 02/16/05						
Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
Hydraulic Oil	ND	0.050	"							
Mineral Oil	ND	0.050	"							
Kerosene	ND	0.050	"							
JP-5/JP-8	ND	0.050	"							
Stoddard Solvent	ND	0.050	"							
Total Extractable Hydrocarbons	ND	0.050	"							
Transformer Oil	ND	0.050	"							
LCS (CO01141-BS1)				Prepared: 02/14/05 Analyzed: 02/16/05						
Diesel	2.38	0.050	mg/L	2.50		95.2	65-135			
LCS Dup (CO01141-BSD1)				Prepared: 02/14/05 Analyzed: 02/16/05						
Diesel	2.35	0.050	mg/L	2.50		94.0	65-135	1.27	30	

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04/15/05 13:24

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Gas/BTEX by GC PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO01191 - EPA 5030 Water GC										
Blank (CO01191-BLK1)				Prepared & Analyzed: 02/15/05						
Gasoline	ND	50	µg/L							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Surrogate: o-Chlorotoluene (BTEX)	*20.2*		"	*20.0*		*101*	*65-135*			
Surrogate: o-Chlorotoluene (Gas)	*19.9*		"	*20.0*		*99.5*	*65-135*			
LCS (CO01191-BS1)				Prepared & Analyzed: 02/15/05						
Gasoline	549	50	µg/L	500		110	65-135			
Surrogate: o-Chlorotoluene (Gas)	*22.2*		"	*20.0*		*111*	*65-135*			
LCS Dup (CO01191-BSD1)				Prepared & Analyzed: 02/15/05						
Gasoline	485	50	µg/L	500		97.0	65-135	12.4	30	
Surrogate: o-Chlorotoluene (Gas)	*19.4*		"	*20.0*		*97.0*	*65-135*			
Matrix Spike (CO01191-MS1)		**Source: COB0432-09**		Prepared & Analyzed: 02/15/05						
Gasoline	492	50	µg/L	500	ND	98.4	65-135			
Surrogate: o-Chlorotoluene (Gas)	*20.8*		"	*20.0*		*104*	*65-135*			
Matrix Spike Dup (CO01191-MSD1)		**Source: COB0432-09**		Prepared & Analyzed: 02/15/05						
Gasoline	520	50	µg/L	500	ND	104	65-135	5.53	30	
Surrogate: o-Chlorotoluene (Gas)	*21.7*		"	*20.0*		*108*	*65-135*			
Batch CO01244 - EPA 5030 Water GC										
Blank (CO01244-BLK1)				Prepared & Analyzed: 02/16/05						
Gasoline	ND	50	µg/L							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							

CALIFORNIA LABORATORY SERVICES

04/15/05 13:24

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Gas/BTEX by GC PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO01244 - EPA 5030 Water GC										
Blank (CO01244-BLK1)				Prepared & Analyzed: 02/16/05						
Surrogate: o-Chlorotoluene (BTEX)	*20.0*		*µg/L*	*20.0*		*100*	*65-135*			
Surrogate: o-Chlorotoluene (Gas)	*17.8*		*"*	*20.0*		*89.0*	*65-135*			
LCS (CO01244-BS1)				Prepared & Analyzed: 02/16/05						
Benzene	16.7	0.50	µg/L	20.0		83.5	70-140			
Toluene	20.1	0.50	"	20.0		100	70-140			
Ethylbenzene	21.2	0.50	"	20.0		106	70-140			
Xylenes (total)	63.2	1.0	"	60.0		105	70-140			
Surrogate: o-Chlorotoluene (BTEX)	*20.7*		*"*	*20.0*		*104*	*65-135*			
LCS Dup (CO01244-BSD1)				Prepared & Analyzed: 02/16/05						
Benzene	15.6	0.50	µg/L	20.0		78.0	70-140	6.81	30	
Toluene	18.4	0.50	"	20.0		92.0	70-140	8.83	30	
Ethylbenzene	19.5	0.50	"	20.0		97.5	70-140	8.35	30	
Xylenes (total)	58.0	1.0	"	60.0		96.7	70-140	8.58	30	
Surrogate: o-Chlorotoluene (BTEX)	*18.7*		*"*	*20.0*		*93.5*	*65-135*			
Matrix Spike (CO01244-MS1)		**Source: COB0453-03**		Prepared & Analyzed: 02/16/05						
Benzene	21.5	0.50	µg/L	20.0	ND	108	60-140			
Toluene	20.9	0.50	"	20.0	ND	104	60-140			
Ethylbenzene	20.5	0.50	"	20.0	ND	102	60-140			
Xylenes (total)	60.0	1.0	"	60.0	ND	100	60-140			
Surrogate: o-Chlorotoluene (BTEX)	*20.5*		*"*	*20.0*		*102*	*65-135*			
Matrix Spike Dup (CO01244-MSD1)		**Source: COB0453-03**		Prepared & Analyzed: 02/16/05						
Benzene	21.2	0.50	µg/L	20.0	ND	106	60-140	1.41	30	
Toluene	20.8	0.50	"	20.0	ND	104	60-140	0.480	30	
Ethylbenzene	20.6	0.50	"	20.0	ND	103	60-140	0.487	30	
Xylenes (total)	60.9	1.0	"	60.0	ND	102	60-140	1.49	30	
Surrogate: o-Chlorotoluene (BTEX)	*21.1*		*"*	*20.0*		*106*	*65-135*			

CALIFORNIA LABORATORY SERVICES

04/15/05 13:24

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Gas/BTEX by GC PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO01246 - EPA 5030 Water GC										
Blank (CO01246-BLK1)				Prepared & Analyzed: 02/16/05						
Gasoline	ND	50	µg/L							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Surrogate: o-Chlorotoluene (BTEX)	*20.3*		"	*20.0*		*102*	*65-135*			
Surrogate: o-Chlorotoluene (Gas)	*19.6*		"	*20.0*		*98.0*	*65-135*			
LCS (CO01246-BS1)				Prepared & Analyzed: 02/16/05						
Benzene	21.7	0.50	µg/L	20.0		108	70-140			
Toluene	21.0	0.50	"	20.0		105	70-140			
Ethylbenzene	20.4	0.50	"	20.0		102	70-140			
Xylenes (total)	62.2	1.0	"	60.0		104	70-140			
Surrogate: o-Chlorotoluene (BTEX)	*19.7*		"	*20.0*		*98.5*	*65-135*			
LCS Dup (CO01246-BSD1)				Prepared & Analyzed: 02/16/05						
Benzene	22.1	0.50	µg/L	20.0		110	70-140	1.83	30	
Toluene	20.9	0.50	"	20.0		104	70-140	0.477	30	
Ethylbenzene	20.4	0.50	"	20.0		102	70-140	0.00	30	
Xylenes (total)	62.7	1.0	"	60.0		104	70-140	0.801	30	
Surrogate: o-Chlorotoluene (BTEX)	*19.9*		"	*20.0*		*99.5*	*65-135*			
Matrix Spike (CO01246-MS1)		**Source: COB0457-04**		Prepared & Analyzed: 02/16/05						
Benzene	22.0	0.50	µg/L	20.0	ND	110	60-140			
Toluene	21.2	0.50	"	20.0	0.63	103	60-140			
Ethylbenzene	20.3	0.50	"	20.0	ND	102	60-140			
Xylenes (total)	61.5	1.0	"	60.0	ND	102	60-140			
Surrogate: o-Chlorotoluene (BTEX)	*19.7*		"	*20.0*		*98.5*	*65-135*			

CALIFORNIA LABORATORY SERVICES

04/15/05 13:24

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Gas/BTEX by GC PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO01246 - EPA 5030 Water GC										
Matrix Spike Dup (CO01246-MSD1)		**Source: COB0457-04**		Prepared & Analyzed: 02/16/05						
Benzene	22.3	0.50	µg/L	20.0	ND	112	60-140	1.35	30	
Toluene	21.0	0.50	"	20.0	0.63	102	60-140	0.948	30	
Ethylbenzene	20.6	0.50	"	20.0	ND	103	60-140	1.47	30	
Xylenes (total)	62.4	1.0	"	60.0	ND	104	60-140	1.45	30	
Surrogate: o-Chlorotoluene (BTEX)	*19.8*		*"*	*20.0*		*99.0*	*65-135*			

CALIFORNIA LABORATORY SERVICES

04/15/05 13:24

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: John Warren	**CLS Work Order #: COB0433** COC #: None

Notes and Definitions

HT-1	The sample was received outside of the EPA recommended holding time.
GC-25	Weathered gasoline.
DSL-1	Although sample contains compounds in the retention time range associated with diesel, the chromatogram was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on diesel.
C-03C	Per customer request, the sample extract has undergone silica-gel clean-up, EPA Method 3630, which is specific to polar compound contamination.
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

ENSR INTERNATIONAL

CHAIN OF CUSTODY

C0B0433

Page 1 of 1

Lab: CLS

TAT: Standard

Report results to:

Name	Jeff Wendt
Company	ENSR
Mailing Address	10411 Old Placerville Road, Suite 210
City, State, Zip	Sacramento, CA 95827-2508
Telephone No	916-362-7100
Fax No	916-362-8100

Project Information

Site Address	359 Main St., Fortuna, CA
ENSR No	06940-407-100
Unocal No	762248
Global ID No	T0602393213

Special instructions and/or specific regulatory requirements

*Run TPHd w/ Silica Gel Cleanup on ALL TPHd HITS

Analyses Requested

Sample Identification	Date Sampled	Time Sampled	Matrix/ Media	No. of Cont.	TPHg 8015	BTEX 8021	TPHd 8015 w/SGC	Total Organic Carbon (TOC)	Alkalinity as $CaCO_3$	Sample Condition/Comments	Preservative
MW-1	2/9/05	1734	GW	4	X	X	X				Ice/HCL
MW-2	2/9/05	1239	GW	1			X				Ice/HCL
MW-3	2/9/05	1453	GW	4	X	X	X				Ice/HCL
MW-4	2/9/05	1709	GW	4	X	X	X				Ice/HCL
MW-5	2/9/05	1548	GW	4	X	X	X				Ice/HCL
MW-6	2/9/05	1341	GW	4	X	X	X				Ice/HCL
MW-7	2/8/05	1711	GW	1			X				Ice/HCL
MW-8	2/8/05	1739	GW	1			X				Ice/HCL
MW-9	2/8/05	1649	GW	1			X				Ice/HCL
MW-10	2/8/05	1802	GW	1			X				Ice/HCL
MW-13	2/9/05	1509	GW	4	X	X	X				Ice/HCL
MW-14	2/9/05	0708	GW	4	X	X	X				Ice/HCL
MW-15	2/9/05	0752	GW	4	X	X	X				Ice/HCL
MW-16A	2/9/05	1810	GW	6	X	X	X	X	X		Ice/HCL
MW-16B	2/9/05	1220	GW	6	X	X	X	X	X		Ice/HCL
MW-17	2/9/05	0939	GW	6	X	X	X	X	X	No preservatives	Ice/HCL
MW-18	2/9/05	1758	GW	6	X	X	X	X	X		Ice/HCL
MW-19	2/9/05	1407	GW	6	X	X	X	X	X		Ice/HCL
MW-20	2/9/05	0811	GW	6	X	X	X	X	X		Ice/HCL
MW-21	2/9/05	0900	GW	6	X	X	X	X	X		Ice/HCL
Trip Blank QA	2/9/05	1200	water	1	X	X					Ice

Collected by: Tanya Ahmad Date/Time 2/9/05 0100 Collector's Signature: [signature] Date/Time 2/9/05 18:10

Relinquished by: [signature] Date/Time 2/12/05 0845 Received by: [signature] Date/Time 2/12/05 0845

Relinquished by: [signature] Date/Time 2/12/05 1110 Received by: [signature] Date/Time 2-11-05 1110

Method of Shipment: Sample Condition on Rcpt:

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

June 01, 2005

CLS Work Order #: COE0672
COC #:

Jeff Wendt
ENSR - Sacramento
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508

Project Name: Frmr. Unocal 762248-359 Main St.
Fortuna,CA

Enclosed are the results of analyses for samples received by the laboratory on 05/20/05 12:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

06/01/05 13:33

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St. Fortuna CA Project Number: 06940-407-100 Project Manager: Jeff Wendt	**CLS Work Order #: COE0672** COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-13 (COE0672-01) Water	**Sampled: 05/19/05 08:56**	**Received: 05/20/05 12:00**							**C-03C**
Diesel	**3.9**	0.050	mg/L	1	CO03900	05/24/05	05/26/05	EPA 8015M	DSL-1
MW-14 (COE0672-02) Water	**Sampled: 05/18/05 14:49**	**Received: 05/20/05 12:00**							**C-03C**
Diesel	ND	0.050	mg/L	1	CO03900	05/24/05	05/26/05	EPA 8015M	DSL-1
MW-15 (COE0672-03) Water	**Sampled: 05/18/05 16:45**	**Received: 05/20/05 12:00**							**C-03C**
Diesel	ND	0.050	mg/L	1	CO03900	05/24/05	05/26/05	EPA 8015M	DSL-1
MW-16A (COE0672-04) Water	**Sampled: 05/19/05 08:08**	**Received: 05/20/05 12:00**							**C-03C**
Diesel	ND	0.050	mg/L	1	CO03900	05/24/05	05/26/05	EPA 8015M	
MW-16B (COE0672-05) Water	**Sampled: 05/19/05 08:51**	**Received: 05/20/05 12:00**							**C-03C**
Diesel	ND	0.050	mg/L	1	CO03900	05/24/05	05/26/05	EPA 8015M	DSL-1
MW-17 (COE0672-06) Water	**Sampled: 05/19/05 09:47**	**Received: 05/20/05 12:00**							**C-03C**
Diesel	ND	0.050	mg/L	1	CO03900	05/24/05	05/26/05	EPA 8015M	DSL-1
MW-18 (COE0672-07) Water	**Sampled: 05/19/05 08:10**	**Received: 05/20/05 12:00**							**C-03C**
Diesel	**1.1**	0.050	mg/L	1	CO03900	05/24/05	05/26/05	EPA 8015M	DSL-1
MW-19 (COE0672-08) Water	**Sampled: 05/19/05 09:36**	**Received: 05/20/05 12:00**							**C-03C**
Diesel	**2.0**	0.050	mg/L	1	CO03900	05/24/05	05/26/05	EPA 8015M	DSL-1
MW-20 (COE0672-09) Water	**Sampled: 05/18/05 17:33**	**Received: 05/20/05 12:00**							**C-03C**
Diesel	**0.12**	0.050	mg/L	1	CO03900	05/24/05	05/26/05	EPA 8015M	DSL-1

CALIFORNIA LABORATORY SERVICES

06/01/05 13:33

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St. Fortuna CA Project Number: 06940-407-100 Project Manager: Jeff Wendt	**CLS Work Order #: COE0672** COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-21 (COE0672-10) Water Sampled: 05/18/05 14:45 Received: 05/20/05 12:00									**C-03C**
Diesel	**0.61**	0.050	mg/L	1	CO03900	05/24/05	05/26/05	EPA 8015M	DSL-1

CALIFORNIA LABORATORY SERVICES

06/01/05 13:33

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St. Fortuna CA Project Number: 06940-407-100 Project Manager: Jeff Wendt	**CLS Work Order #: COE0672** COC #:

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-13 (COE0672-01) Water Sampled: 05/19/05 08:56 Received: 05/20/05 12:00									
Gasoline	**12000**	500	µg/L	10	CO03981	05/25/05	05/25/05	8015M/8021B	
Benzene	**830**	25	"	50	"	"	05/26/05	"	
Toluene	**220**	5.0	"	10	"	"	05/25/05	"	
Ethylbenzene	**780**	25	"	50	"	"	05/26/05	"	
Xylenes (total)	**3400**	50	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*85.0 %*	*65-135*		"	"	*05/25/05*	"	
MW-14 (COE0672-02) Water Sampled: 05/18/05 14:49 Received: 05/20/05 12:00									
Gasoline	ND	50	µg/L	1	CO03981	05/25/05	05/25/05	8015M/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*99.5 %*	*65-135*		"	"	"	"	
MW-15 (COE0672-03) Water Sampled: 05/18/05 16:45 Received: 05/20/05 12:00									
Gasoline	ND	50	µg/L	1	CO03981	05/25/05	05/25/05	8015M/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*97.0 %*	*65-135*		"	"	"	"	
MW-16A (COE0672-04) Water Sampled: 05/19/05 08:08 Received: 05/20/05 12:00									
Gasoline	**670**	50	µg/L	1	CO03981	05/25/05	05/25/05	8015M/8021B	
Benzene	**61**	0.50	"	"	"	"	"	"	
Toluene	**33**	0.50	"	"	"	"	"	"	
Ethylbenzene	**24**	0.50	"	"	"	"	"	"	
Xylenes (total)	**140**	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*98.0 %*	*65-135*		"	"	"	"	

CALIFORNIA LABORATORY SERVICES

06/01/05 13:33

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Frmr. Unocal 762248-359 Main St, Fortuna,CA Project Number: 06940-407-100 Project Manager: Jeff Wendt	**CLS Work Order #: COE0672** COC #:

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-16B (COE0672-05) Water Sampled: 05/19/05 08:51 Received: 05/20/05 12:00									
Gasoline	ND	50	µg/L	1	CO03981	05/25/05	05/25/05	8015M/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*84.0 %*	*65-135*		"	"	"	"	
MW-17 (COE0672-06) Water Sampled: 05/19/05 09:47 Received: 05/20/05 12:00									
Gasoline	ND	50	µg/L	1	CO03981	05/25/05	05/25/05	8015M/8021B	
Benzene	**1.2**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*98.0 %*	*65-135*		"	"	"	"	
MW-18 (COE0672-07) Water Sampled: 05/19/05 08:10 Received: 05/20/05 12:00									
Gasoline	**9200**	1000	µg/L	20	CO03981	05/25/05	05/25/05	8015M/8021B	GC-25
Benzene	**6500**	120	"	250	"	"	"	"	
Toluene	**20**	0.50	"	1	"	"	"	"	
Ethylbenzene	**510**	10	"	20	"	"	"	"	
Xylenes (total)	**1400**	20	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*84.0 %*	*65-135*		"	"	"	"	
MW-19 (COE0672-08) Water Sampled: 05/19/05 09:36 Received: 05/20/05 12:00									
Gasoline	**13000**	2500	µg/L	50	CO03983	05/25/05	05/25/05	8015M/8021B	GC-25
Benzene	**980**	25	"	"	"	"	"	"	
Toluene	**240**	25	"	"	"	"	"	"	
Ethylbenzene	**430**	25	"	"	"	"	"	"	
Xylenes (total)	**1900**	50	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*99.0 %*	*65-135*		"	"	"	"	

CALIFORNIA LABORATORY SERVICES

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Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-20 (COE0672-09) Water Sampled: 05/18/05 17:33 Received: 05/20/05 12:00									
Gasoline	**2000**	50	µg/L	1	CO03939	05/24/05	05/24/05	8015M/8021B	GC-25
Benzene	**420**	10	"	20	"	"	05/25/05	"	
Toluene	**110**	10	"	"	"	"	"	"	
Ethylbenzene	**110**	1.0	"	2	"	"	"	"	
Xylenes (total)	**330**	2.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*104 %*	*65-135*		"	"	*05/24/05*	"	
MW-21 (COE0672-10) Water Sampled: 05/18/05 14:45 Received: 05/20/05 12:00									
Gasoline	**3500**	250	µg/L	5	CO03939	05/24/05	05/25/05	8015M/8021B	GC-25
Benzene	**2600**	25	"	50	"	"	"	"	
Toluene	**4.0**	0.50	"	1	"	"	05/24/05	"	
Ethylbenzene	**120**	2.5	"	5	"	"	05/25/05	"	
Xylenes (total)	**430**	5.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*94.0 %*	*65-135*		"	"	"	"	
QA (COE0672-11) Water Sampled: 05/09/05 00:00 Received: 05/20/05 12:00									**HT-2**
Gasoline	ND	50	µg/L	1	CO03939	05/24/05	05/24/05	8015M/8021B	
Benzene	**1.6**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: o-Chlorotoluene (Gas)		*110 %*	*65-135*		"	"	"	"	

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Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO03900 - EPA 3520B										
Blank (CO03900-BLK1)				Prepared: 05/24/05	Analyzed: 05/26/05					
Diesel	ND	0.050	mg/L							
LCS (CO03900-BS1)				Prepared: 05/24/05	Analyzed: 05/26/05					
Diesel	1.99	0.050	mg/L	2.50		79.6	65-135			
LCS Dup (CO03900-BSD1)				Prepared: 05/24/05	Analyzed: 05/26/05					
Diesel	1.98	0.050	mg/L	2.50		79.2	65-135	0.504	30	

CALIFORNIA LABORATORY SERVICES

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Gas/BTEX by GC PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO03939 - EPA 5030 Water GC										
Blank (CO03939-BLK1)				Prepared & Analyzed: 05/24/05						
Gasoline	ND	50	µg/L							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Surrogate: o-Chlorotoluene (BTEX)	*20.1*		"	*20.0*		*100*	*65-135*			
Surrogate: o-Chlorotoluene (Gas)	*22.0*		"	*20.0*		*110*	*65-135*			
LCS (CO03939-BS1)				Prepared & Analyzed: 05/24/05						
Gasoline	415	50	µg/L	500		83.0	65-135			
Surrogate: o-Chlorotoluene (Gas)	*22.0*		"	*20.0*		*110*	*65-135*			
LCS Dup (CO03939-BSD1)				Prepared & Analyzed: 05/24/05						
Gasoline	459	50	µg/L	500		91.8	65-135	10.1	30	
Surrogate: o-Chlorotoluene (Gas)	*22.6*		"	*20.0*		*113*	*65-135*			
Matrix Spike (CO03939-MS1)		**Source: COE0685-04**		Prepared & Analyzed: 05/24/05						
Gasoline	427	50	µg/L	500	ND	85.4	65-135			
Surrogate: o-Chlorotoluene (Gas)	*21.3*		"	*20.0*		*106*	*65-135*			
Matrix Spike Dup (CO03939-MSD1)		**Source: COE0685-04**		Prepared & Analyzed: 05/24/05						
Gasoline	429	50	µg/L	500	ND	85.8	65-135	0.467	30	
Surrogate: o-Chlorotoluene (Gas)	*22.0*		"	*20.0*		*110*	*65-135*			
Batch CO03981 - EPA 5030 Water GC										
Blank (CO03981-BLK1)				Prepared & Analyzed: 05/25/05						
Gasoline	ND	50	µg/L							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							

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Gas/BTEX by GC PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO03981 - EPA 5030 Water GC										
Blank (CO03981-BLK1)				Prepared & Analyzed: 05/25/05						
Surrogate: o-Chlorotoluene (BTEX)	*27.1*		*µg/L*	*20.0*		*136*	*65-135*			*S-GC*
Surrogate: o-Chlorotoluene (Gas)	*20.8*		*"*	*20.0*		*104*	*65-135*			
LCS (CO03981-BS1)				Prepared & Analyzed: 05/25/05						
Gasoline	405	50	µg/L	500		81.0	65-135			
Surrogate: o-Chlorotoluene (Gas)	*21.8*		*"*	*20.0*		*109*	*65-135*			
LCS Dup (CO03981-BSD1)				Prepared & Analyzed: 05/25/05						
Gasoline	425	50	µg/L	500		85.0	65-135	4.82	30	
Surrogate: o-Chlorotoluene (Gas)	*21.8*		*"*	*20.0*		*109*	*65-135*			
Batch CO03983 - EPA 5030 Water GC										
Blank (CO03983-BLK1)				Prepared & Analyzed: 05/25/05						
Gasoline	ND	50	µg/L							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Surrogate: o-Chlorotoluene (BTEX)	*20.1*		*"*	*20.0*		*100*	*65-135*			
Surrogate: o-Chlorotoluene (Gas)	*22.4*		*"*	*20.0*		*112*	*65-135*			
LCS (CO03983-BS1)				Prepared & Analyzed: 05/25/05						
Gasoline	397	50	µg/L	500		79.4	65-135			
Surrogate: o-Chlorotoluene (Gas)	*21.2*		*"*	*20.0*		*106*	*65-135*			
LCS Dup (CO03983-BSD1)				Prepared & Analyzed: 05/25/05						
Gasoline	431	50	µg/L	500		86.2	65-135	8.21	30	
Surrogate: o-Chlorotoluene (Gas)	*22.2*		*"*	*20.0*		*111*	*65-135*			

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Gas/BTEX by GC PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO03983 - EPA 5030 Water GC										
Matrix Spike (CO03983-MS1)		**Source: COE0712-01**		Prepared & Analyzed: 05/25/05						
Gasoline	3200	50	µg/L	500	ND	640	65-135			QM-05
Surrogate: o-Chlorotoluene (Gas)	*18.6*		"	*20.0*		*93.0*	*65-135*			
Matrix Spike Dup (CO03983-MSD1)		**Source: COE0712-01**		Prepared & Analyzed: 05/25/05						
Gasoline	3150	50	µg/L	500	ND	630	65-135	1.57	30	QM-05
Surrogate: o-Chlorotoluene (Gas)	*19.2*		"	*20.0*		*96.0*	*65-135*			

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Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
HT-2	This sample was analyzed outside the EPA recommended holding time.
GC-25	Weathered gasoline.
DSL-1	Although sample contains compounds in the retention time range associated with diesel, the chromatogram was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on diesel.
C-03C	Per customer request, the sample extract has undergone silica-gel clean-up, EPA Method 3630, which is specific to polar compound contamination.
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

ENSR INTERNATIONAL

CHAIN OF CUSTODY C3E0672

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Lab: CLS

TAT: Standard

Report results to:

Name	Margret Riggin
Company	ENSR
Mailing Address	10411 Old Placerville Road, Suite 210
City, State, Zip	Sacramento, CA 95827-2508
Telephone No	916-362-7100
Fax No.	916-362-8100

Project Information

Site Address	359 Main St., Fortuna, CA
ENSR No	06940-407-100
Unocal No	762248
Global ID No	T0602393213

Special instructions and/or specific regulatory requirements:
*Run TPHd w/ Silica Gel Cleanup on ALL TPHd HITS

Analyses Requested

Sample Identification	Date Sampled	Time Sampled	Matrix/ Media	No. of Cont.	TPHg 8015	BTEX 8021	TPHd 8015 w/SGC								Sample Condition/Comments	Preservative
MW-13	5/19/05	0856	GW	4	X	X	X									Ice/HCL
MW-14	5/18/05	1449	GW	4	X	X	X									Ice/HCL
MW-15	5/18/05	1645	GW	4	X	X	X									Ice/HCL
MW-16A	5/19/05	0808	GW	4	X	X	X									Ice/HCL
MW-16B	5/18/05	0851	GW	4	X	X	X									Ice/HCL
MW-17	5/19/05	0947	GW	4	X	X	X									Ice/HCL
MW-18	5/19/05	0810	GW	4	X	X	X									Ice/HCL
MW-19	5/19/05	0936	GW	4	X	X	X									Ice/HCL
MW-20	5/18/05	1733	GW	4	X	X	X									Ice/HCL
MW-21	5/18/05	1445	GW	4	X	X	X									Ice/HCL
Trip Blank			water	1	X	X										Ice

Collected by: Tanya Ahouse/Heather Date/Time 5/19/05
Relinquished by: [signature] Date/Time 5/20/05
Relinquished by: Date/Time
Method of Shipment:

Collector's Signature: [signature] Date/Time 5/19/05
Received by: [signature] Date/Time 5/20/05 12:00
Received by: Date/Time
Sample Condition on Rcpt: