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May 31, 2005

4629.02

California Regional Water Quality Control Board
5550 Skylane Boulevard
Santa Rosa, California 95403

Attention: Mr. Cody Walker

Subject: Groundwater Monitoring Report; First Biannual 2005
Former Shell Bulk Plant-AST Area, 400 Eighth Street, Fortuna, California
CRWQCB Case No. 1THU116

Dear Mr. Walker:

LACO ASSOCIATES (LACO) presents the results of groundwater monitoring for the first biannual of 2005 and monthly monitoring for March 2005. This report has been prepared for Humboldt Petroleum, Inc. Please call or email if you have any questions or concerns.

Sincerely,
LACO ASSOCIATES

Caroline Levenda
Staff Geologist

Christopher J. Watt
PG 7586, Exp. 03/31/06

CJL:cs

cc: Mr. Jim Seiler, Humboldt Petroleum, Inc. (electronically sent)
Ms. Carol Campagna, Shell Oil

P:\4000\4629 HPI Bulk Plant\submittals\GW Mon Reports\2005\Biannuals\1bi2005 GMR.doc

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www.lacoassociates.us

GROUNDWATER MONITORING REPORT
FIRST BIANNUAL 2005

INTRODUCTION

Field activities were conducted on March 30 and April 26, 2005, in accordance with generally accepted practices at this or similar locations. In addition, on April 15, 2005, monitoring wells MW3, MW31, and MW32 were redeveloped due to sediment impaction. The well development records can be found in Attachment 3. Please refer to Tables A and B for the current groundwater monitoring regime and to the LACO ASSOCIATES' (LACO's) *Standard Operating Procedures No. 1* (SOP) on file at your office for details. A location map and site map are included as Figures 1 and 2, respectively. A key to abbreviations is included as Attachment 4.

SITE CHRONOLOGY

- 1993: Soil and groundwater contamination investigation is initiated.
- 1993 through 2003: The monitoring well network is constructed.
- August 2001: 2200 cubic yards of contaminated soil is excavated.

TABLE A: SAMPLING EVENT: March 30, 2005							
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE
					ORGANICS	INORGANICS	
MW3	3-20	2.23	DHP	pH, T, ECw, ORP, DO	TPHg, TPHd, BTEX, MTBE	NA	Monthly
MW10	3-18	3.71	---	---	---		Monthly DTW only
MW11	2-14	8.72	---	---	---		
MW14	6-15	6.1	---	---	---		
MW17D	22.5-27.5	7.48	---	---	---		

TABLE A: SAMPLING EVENT: March 30, 2005 (continued)							
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE
					ORGANICS	INORGANICS	
MW18	18.5-21.5	---	DHP	pH, T, ECw, ORP, DO	TPHg, TPHd, BTEX, MTBE	NA	Monthly
MW31	16.5-18	2.12					
MW32	14-15.5	2.49					

TABLE B: SAMPLING EVENT: April 26, 2005							
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE
					ORGANICS	INORGANICS	
MW3	3-20	6.29	DHP	pH, T, ECw, ORP, DO	TPHg, TPHd, BTEX, MTBE	NA	Biannually
MW7	6-25	5.8					
MW9	3-18	8.56					
MW10	3-18	7.35					
MW11	2-14	12.96	3/4" B	---			
MW14	6-15	10.28		---			

TABLE B: SAMPLING EVENT: April 26, 2005 (continued)							
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE
					ORGANICS	INORGANICS	
MW17S	15.5-18	3.47	3/4" B	---	TPHg, TPHd, BTEX, MTBE	NA	Biannually
MW17D	22.5-27.5	8.33		---			
MW18	18.5-21.5	---	---	---			
MW21	10-12	6.69	Cam Pump	pH, T, ECw, ORP, DO			
MW26	5-10	4.91	DHP				
MW31	16.5-18	4.96					
MW32	14-15.5	4.29					

HYDRAULIC GRADIENT AND HYDROGEOLOGY

The hydrogeology of the site has been characterized as a perched zone with two semi-confined units consisting of silty sands with interbedded silty clays. The hydraulic gradient contour maps for March 30 and April 26, 2005, are included as Figures 3 and 4, respectively. Please refer to Table 1 for groundwater elevations. The hydraulic gradient for March 30, 2005, using groundwater elevations from monitoring wells MW14, MW21, and MW26, was determined to have a S20°W trend with a 9.4 percent slope and is representative of Unit 1 of the aquifer. The hydraulic gradient for April 26, 2005, using groundwater elevations from monitoring wells MW10, MW11, and MW14, was determined to have a S22°W trend at a 14 percent slope and is also representative of Unit 1 of the aquifer.

LABORATORY RESULTS

Laboratory analytical results from the March 30 and April 26, 2005, sampling events are summarized in Table C and D, respectively, included below. Laboratory analytical results are summarized in Table 1 and a copy of the current laboratory report is included as Attachment 2. Laboratory notes are included in the case narrative of the laboratory analytical results found in Attachment 2.

TABLE C: Analytical Result for the March 30, 2005, Sampling Event								
MONITORING WELL ID	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW3	180	ND<50	ND<170	38	1.2	ND<0.50	0.59	ND<3.0
MW31	1,100	82	ND<170	240	ND<20	ND<5.0	ND<5.0	ND<8.0
MW32	2,000	160	ND<170	680	13	ND<10	ND<5-10	ND<20

TABLE D: Analytical Result for the April 26, 2005, Sampling Event								
MONITORING WELL ID	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW3	180	ND<50	ND<170	38	1.2	ND<0.50	0.59	ND<3.0
MW7	500	ND <50	---	13	4.9	2.8	2.1	ND<18
MW9	160	69	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0
MW10	ND<50	ND<50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0
MW11	ND<50	ND<50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0
MW14	ND<50	ND<50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0
MW17S	ND<50	ND<50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0
MW17D	ND<50	ND<50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0
MW21	ND<50	ND<50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0
MW26	ND<50	ND<50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0
MW31	1,000	83	---	270	7.9	ND<5.0	ND<5.0	ND<7.0
MW32	2,400	150	---	630	15	ND<12	ND<12	ND<20

DISCUSSION OF BIANNUAL AND MONTHLY RESULTS

Analytical results reported for monitoring wells sampled during the first biannual of 2005 and the monthly monitoring for March 2005, generally fall within the range reported for previous sampling events at the site over the historic monitoring period.

March 30, 2005, Sampling Event

- The laboratory noted that groundwater samples taken from monitoring wells MW3, MW31, and MW32 include peaks within the gasoline range and reported gasoline components.

April 26, 2005, Sampling Event

- The laboratory noted that the groundwater samples taken from monitoring wells MW3, MW7, MW9, MW31, and MW32 include peaks within the gasoline range and reported gasoline components.

The historical analytical results for the monitoring wells sampled in the March 30, 2005, and April 26, 2005, sampling events are included in Table 1. The groundwater intrinsic parameters of oxidation-reduction potential (ORP) and dissolved oxygen (DO) levels for the March 30 and April 26, 2005, sampling events can be found in Attachment 1.

DECAY RATES AND MONITORING NATURAL ATTENUATION (MONA)

Time-series plots of exponential trend lines of total petroleum hydrocarbons as gasoline (TPHg) and benzene concentrations for monitoring wells MW31 and MW32 are included in Charts 1 through 4. Decay rates for TPHg and benzene concentrations are derived from the time-series

plots and analytical results. TPHg and benzene concentrations for the decay rate analysis were chosen on a seasonal basis where depth-to- water measurements were within 0.5 feet of one another. The decay rates were calculated using first order decay rate equation:

Concentration Final (C_f) = Concentration Initial (C_i) * e^(-decay constant (-k)*time(t))

The water quality objective (WQO) dates for TPHg and benzene for monitoring wells MW31 and M32 are included below in Tables E and F, respectively. Worksheet 1 also presents "fast" and "slow" degradation rates, based on published cyclohexane half-life data, to compare to observed degradation rates. Half-lives of TPHg are not available due to the complex formulations of TPHg mixtures; however, cyclohexane is a major component in standard gasoline formulation, making up to approximately 32 percent by volume of the formulation (Nyer et al., 1996). Cyclohexanes were also reported as a major component in a groundwater sample collected at another underground storage tank (UST) site impacted by weathered/degraded gasoline in Fortuna, California. Attachment 5 presents a data sheet from Agricultural and Priority Pollutants Laboratories, Inc (APPL) illustrating the relative concentrations of separate analytes making up degraded and dissolved TPHg. Based on data presented in Attachment 5, cyclohexanes comprise approximately 36 percent of the TPHg from the Fortuna site. This supports Nyer's estimate; therefore, we conclude that cyclohexane is a representative proxy when calculating a decay rate for TPHg.

Cyclohexane "fast" and "slow" half-lives for aqueous biodegradation under anaerobic conditions, were obtained from Howard's Handbook of Environmental Degradation Rates (Howard, 1991). The degradation rates of TPHg were determined using the first order decay equation presented above.

A comparison of decay rates for benzene and TPHg is included as Table 2. Tables E and F summarize the results of the chart forecasting, TPHg degradation rate derivations, and WQO achievement date estimates for on-site monitoring wells MW31 and MW32.

Table E: MW31 Decay Rates and WQO Achievement Dates for TPHg and Benzene		
MW31	Trend Line Estimates from Chart	Estimates from Sampling Results
TPHg		
DECAY RATE (k in days)	0.00167	0.00145
Year of WQO Achievement (TPHg: 50 µg/L)	2010	2011
Benzene		
DECAY RATE (k in days)	0.00149	0.00182
Year of WQO Achievement (benzene: 1.0 µg/L)	2016	2013

Table F: MW32 Decay Rates and WQO Achievement Dates for TPHg and Benzene		
MW32	Trend Line Estimates from Chart	Estimates from Sampling Results
TPHg		
DECAY RATE (k in days)	0.00149	0.00050
Year of WQO Achievement (TPHg: 50 µg/L)	2015	2025
Benzene		
DECAY RATE (k in days)	0.0008	0.00043
Year of WQO Achievement (benzene: 1.0 µg/L)	2026	2047

Monitoring Well MW31

- The trend line fit to historical groundwater data for TPHg indicates WQO achievement in the year 2010. The decay rate equation for TPHg indicates WQO achievement in the year 2011.
- The trend line fit to historical groundwater data for benzene indicates WQO achievement in the year 2016. The decay rate equation for benzene indicates WQO achievement in the year 2013.

Monitoring Well MW32

- The trend line fit to historical groundwater data for TPHg indicates WQO achievement in the year 2015. The decay rate equation for TPHg indicates WQO achievement of 2025.
- The trend line fit to historical groundwater data for benzene indicates WQO achievement in the year 2026. The decay rate equation for benzene indicates WQO achievement in the year 2047.

CONCLUSIONS

- As stated in the February 14, 2003, letter to your office regarding the subject property, "The purpose of the amendment is to provide a contingency for active remediation of the Above-ground storage tank (AST) area should groundwater monitoring data in the next 5 years not reveal a trend towards achieving water quality objectives in the next twenty years." Current decay rate and trend line analyses presented in this report suggests the WQOs for TPHg and benzene will be met within 20 years.

RECOMMENDATIONS

- LACO requests a meeting with the CRWQCB to discuss consideration of the AST area of the subject property for "No Further Action" as decay rate and trend line analyses suggests natural attenuation will result in achievement of the WQOs.

FUTURE WORK

- Biannual sampling and measuring of the AST area monitoring wells, MW3, MW7, MW9 through MW11, MW14, MW17S, MW17D, MW18, MW21, MW26, MW31 and MW32, is scheduled for September 2005.
- Monthly sampling and measuring of monitoring wells, MW3, MW18, MW31, and MW32 and measuring only of monitoring wells, MW10, MW11, MW14 and MW17D, will continue.

REFERENCES

Howard, Philip H., Handbook of Environmental Degradation Rates, 1991. pg. 111 and pg. 422. CRC Press LLC, Boca Raton, FL.

Nyer, Evan K., In Situ Treatment Technology, 1996. pg. 10. CRC Press, Inc., Boca Raton, FL.

LIST OF FIGURES, TABLES, WORKSHEETS, AND ATTACHMENTS

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Table C: Analytical results for the March 30, 2005 sampling event
Table D: Analytical results for the April 26, 2005 sampling event
Table E: MW31 Decay Rate and Trend Line Results
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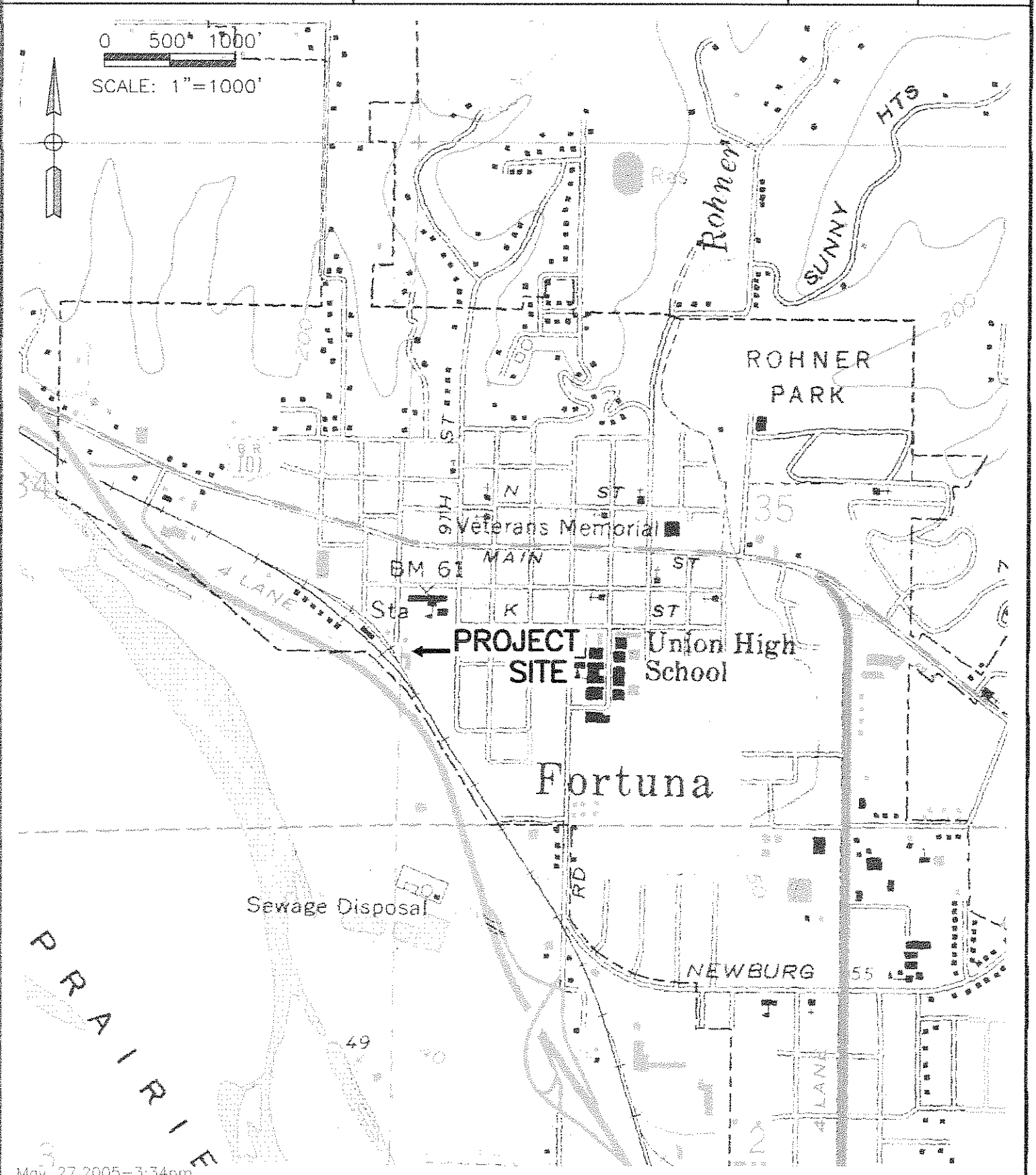
Table 2: Comparison of Decay Rates for TPHg and Benzene

Worksheet 1: Decay Rates from Monitoring Wells MW31 and MW32, Derived from Analytical Results

Attachment 1: Field Monitoring Forms with Groundwater Parameters for March 30 and April 26, 2005
Attachment 2: Laboratory Analytical Data for March 30 and April 26, 2005
Attachment 3: Well Development Records
Attachment 4: Key to Abbreviations
Attachment 5: APPL Inc. - Cyclohexane reference

LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
	CLIENT	HUMBOLDT PETROLEUM INC	DATE	5/12/05	1
	LOCATION	FORMER BULK PLANT, FORTUNA, CA	CHECK		JOB NO.
		LOCATION MAP	SCALE	1"=1000'	4629.02



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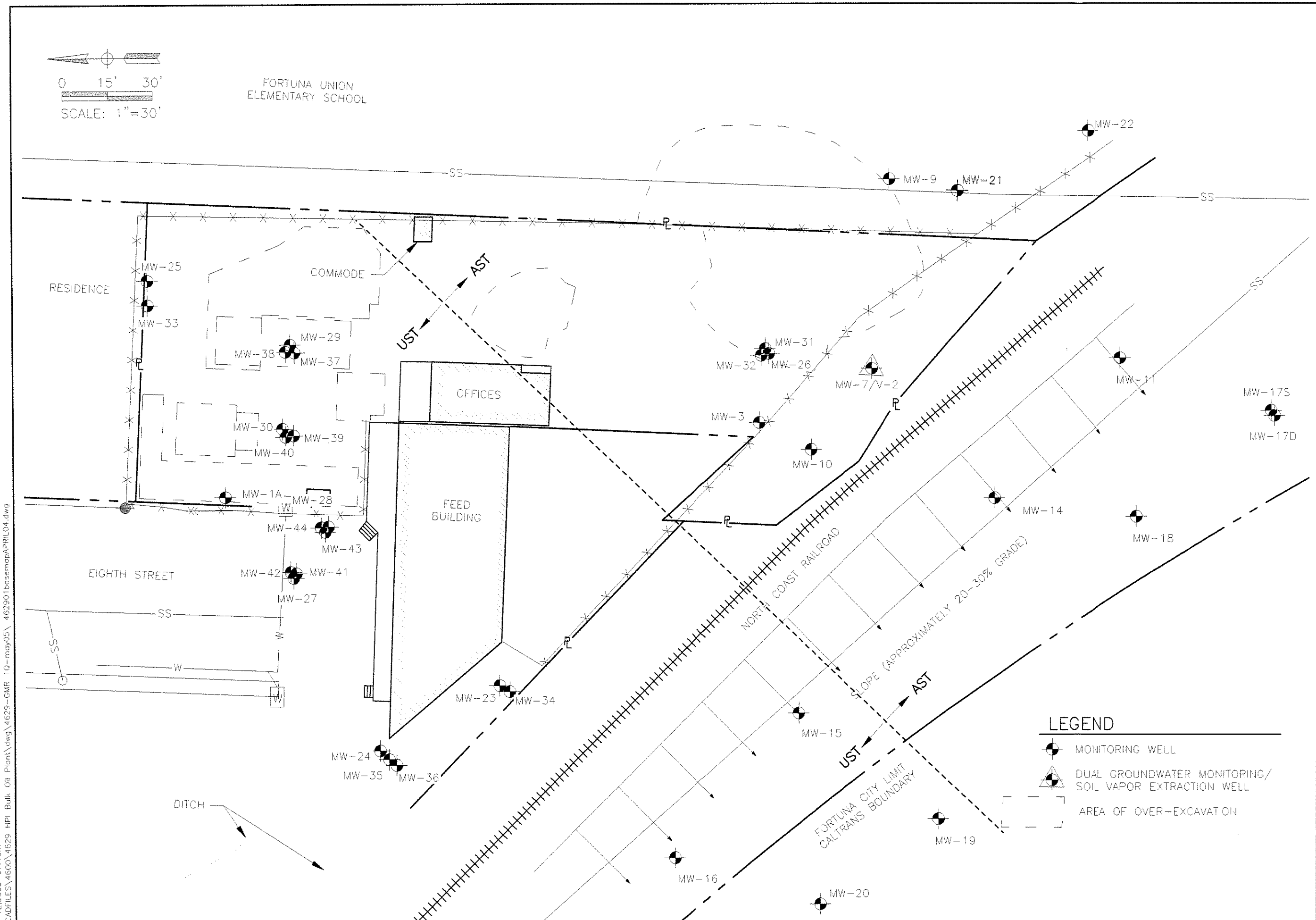

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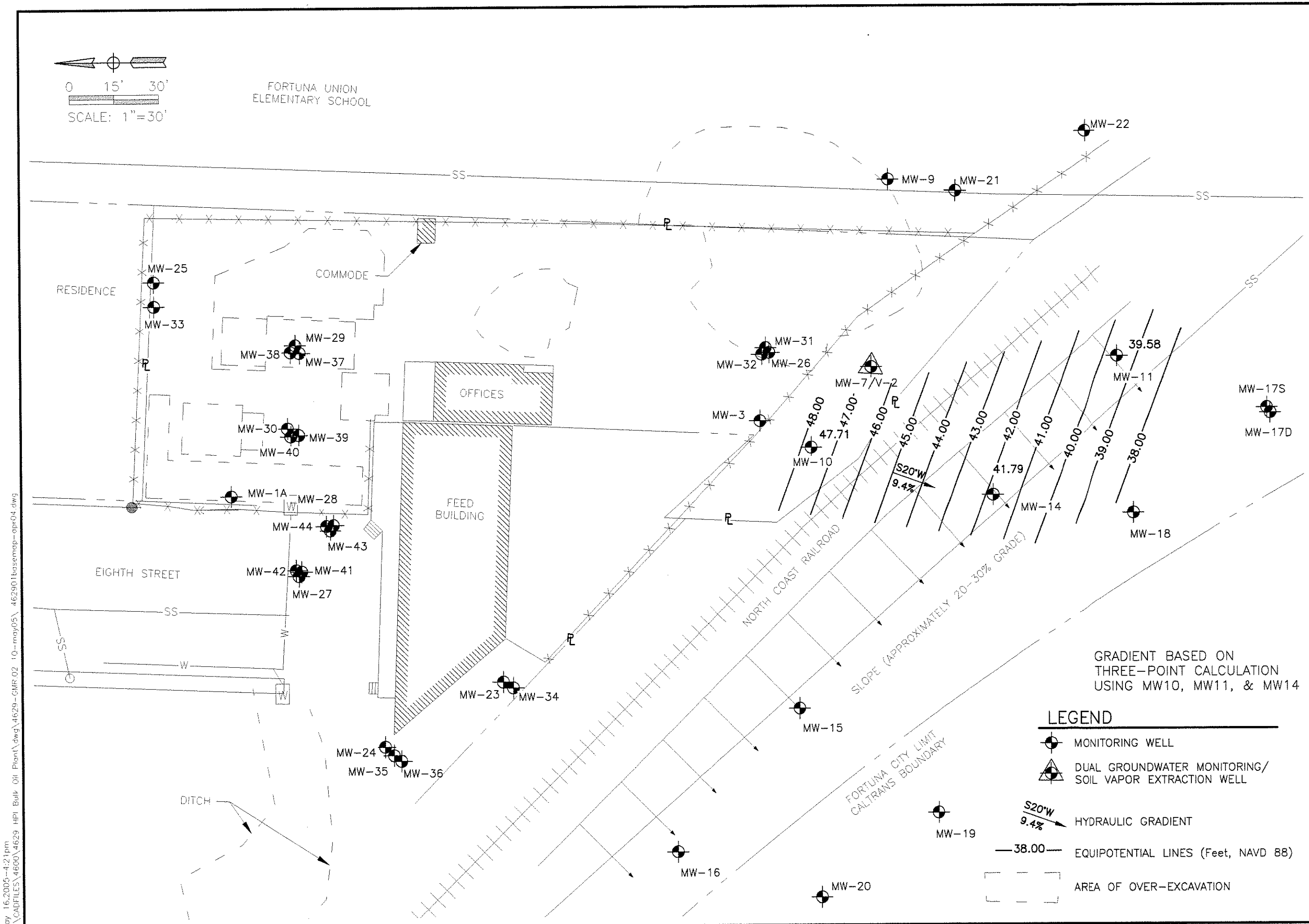
LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

NO.	REVISION	BY	CHK	DATE

GROUNDWATER MONITORING REPORT - AST AREA
SITE MAP

HUMBOLDT PETROLEUM, INC
FORMER BULK PLANT, FORTUNA, CA

SCALE	1"=30'
DRAWN	RJM
CHECK	
APPVD	
DATE	5/12/05
JOB NO.	4629.02
FIGURE	2



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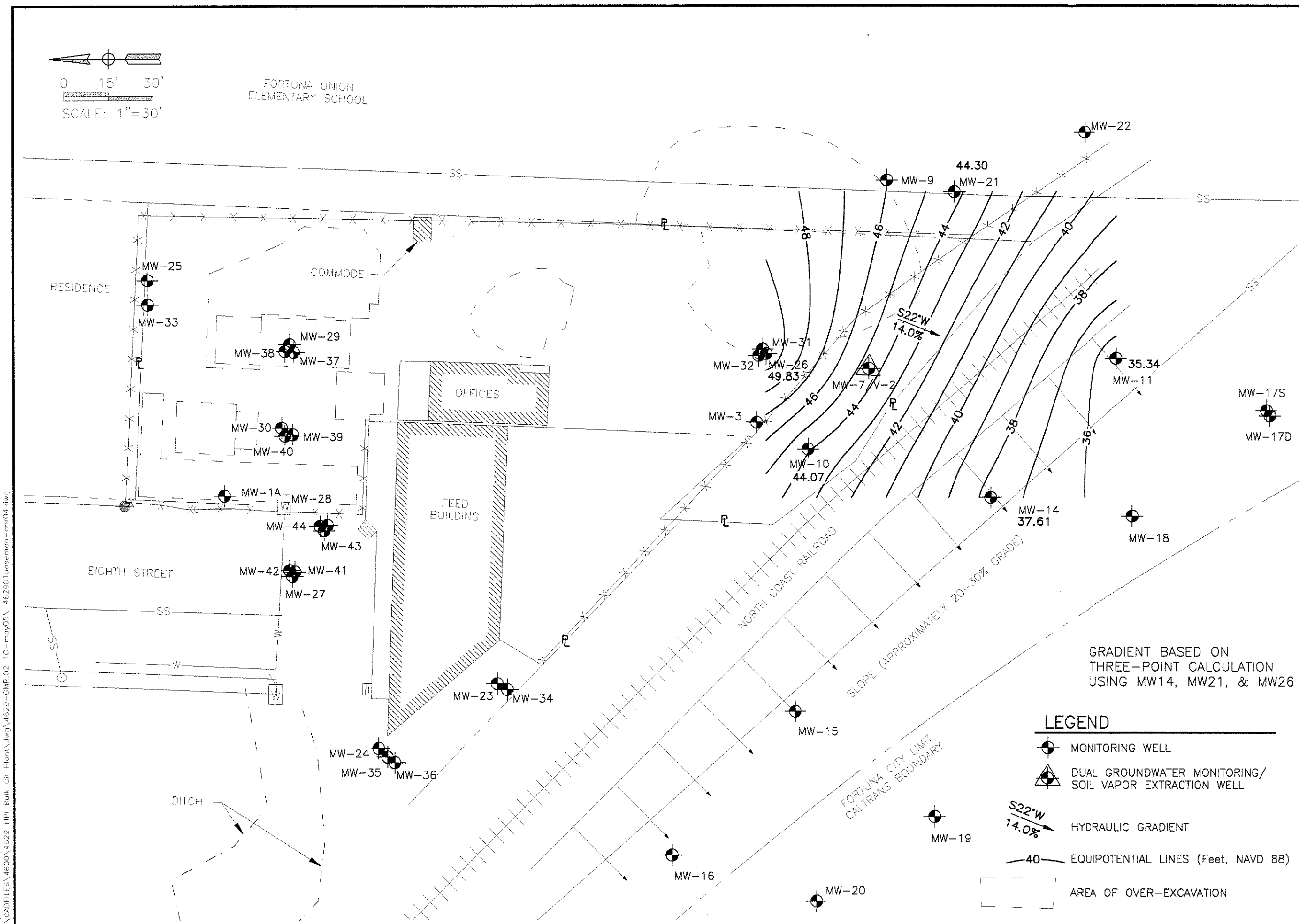
LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

NO.	REVISION	BY	CHK	DATE

GROUNDWATER MONITORING REPORT - AST AREA
HYDRAULIC GRADIENT MAP (3/30/05)

HUMBOLDT PETROLEUM, INC
FORMER BULK PLANT, FORTUNA, CA

SCALE	1"=30'
DRAWN	RJM
CHECK	
APPVD	
DATE	5/16/05
JOB NO.	4629.02
FIGURE	3



LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

NO.	REVISION	BY	CHK	DATE

GROUNDWATER MONITORING REPORT - AST AREA
HYDRAULIC GRADIENT MAP (4/26/05)

HUMBOLDT PETROLEUM, INC
FORMER BULK PLANT, FORTUNA, CA

SCALE	1"=30'
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CHECK	
APPVD	
DATE	5/16/05
JOB NO.	4629.02
FIGURE	4

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TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-1	50.87													
10/7/93		46.27	4.60	4,500	560 [6, 7]	ND <500	---	2,000	110	ND	195	---	---	---
11/11/93		43.55	7.32	---	---	---	---	---	---	---	---	---	---	---
12/29/93		48.20	2.67	---	---	---	---	---	---	---	---	---	---	---
1/24/94		49.75	1.12	16,000	1,300	ND <500	---	5,300	270	120	490	---	---	---
2/24/94		50.19	0.68	---	---	---	---	---	---	---	---	---	---	---
3/28/94		49.34	1.53	---	---	---	---	---	---	---	---	---	---	---
4/25/94		49.36	1.51	14,000	5,500	---	ND	5,500	64	ND	150	---	---	---
5/12/94		48.84	2.03	---	---	---	---	---	---	---	---	---	---	---
6/3/94		48.13	2.74	---	---	---	---	---	---	---	---	---	---	---
7/19/94		45.78	5.09	0.02 feet free product										---
9/21/94		43.07	7.80	---	---	---	---	---	---	---	---	---	---	---
10/25/94		42.05	8.82	---	---	---	---	---	---	---	---	---	---	---
11/16/94		47.71	3.16	---	---	---	---	---	---	---	---	---	---	---
12/8/94		48.63	2.24	---	---	---	---	---	---	---	---	---	---	---
1/9/95		50.07	0.80	15,000	390,000	---	310	3,100	180	330	800	---	---	5.0
2/7/95		50.59	0.28	---	---	---	---	---	---	---	---	---	---	---
3/7/95		49.75	1.12	---	---	---	---	---	---	---	---	---	---	---
4/5/95		49.48	1.39	11,000	21,000	---	19	4,900	140	200	380	---	---	4.0
4/5/95 (D)		duplicate sample		13,000	24,000	---	18	4,300	120	160	380	---	---	---
6/23/95		48.41	2.46	---	---	---	---	---	---	---	---	---	---	---
7/5/95		47.39	3.48	17,000	23,000	---	8.1	6,800	510	190	610	---	---	3.0
8/3/95		46.55	4.32	---	---	---	---	---	---	---	---	---	---	---
9/6/95		46.06	4.81	---	---	---	---	---	---	---	---	---	---	---
10/9/95		46.36	4.51	5,800	8,100	---	ND	2,100	48	100	150	---	---	1.5
11/16/95		46.89	3.98	---	---	---	---	---	---	---	---	---	---	---
1/16/96		49.90	0.97	20,000	25,000	---	23	7,100	400	380	940	---	---	2.0
4/23/96		50.17	0.70	17,000	23,000	---	11	6,600	280	300	730	---	---	3.0
4/23/96 (D)		duplicate sample		19,000	17,000	---	3.1	6,100	250	290	590	---	---	---
7/10/96		48.17	2.70	11,000	13,000	---	ND	4,700	160	290	510	---	---	3.0
10/22/96		46.59	4.28	12,000	8,800	---	1.8	3,800	110	160	280	---	---	3.0
1/21/97		50.17	0.70	15,000	9,100	---	4.7	4,800	180	220	550	ND	---	4.0
4/15/97		49.17	1.70	11,000	5,400	---	7.3	3,900	130	210	470	ND	---	3.0
4/15/97 (D)		duplicate sample		10,000	5,300	---	---	3,700	140	210	490	260	---	---
5/20/97		48.82	2.05	---	---	---	---	---	---	---	---	---	---	---
7/29/97		46.92	3.95	11,000	21,000	---	---	3,300	68	150	220	ND	---	3.0
10/15/97		47.12	3.75	13,000	11,000 [8]	---	1.8	5,500	140	120	380	250	---	4.0
1/20/98		50.67	0.20	2,600	5,300 [6]	---	ND	880	24	30	78	ND	---	3.0
1/20/98 (D)		50.87		2,700	1,900	---	---	780	ND	ND	69	ND	---	---
4/15/98		50.07	0.80	12,000	8,000	---	50.0	3,400	93	210	380	ND	---	3.8
7/28/98		46.67	4.20	7,300	5,500 [6]	---	5.7	1,700	53	120	190	ND <2.5	---	2.6
1/26/00			0.83	14,000	10,000	1,900	---	3,300	100	70	252	---	---	---
					6,300 w/silica gel cleanup	*700 w/silica gel cleanup*								
		50.04												

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-1 Continued														
5/3/00		49.60	1.27	**3,700**	**3,200**	**190**	---	**1,100**	**62**	**110**	**169**	ND<100	---	---
8/3/00		45.62	5.25	**11,000**	**7,600**	**340**	---	**2,700**	**79**	**72**	**158**	ND<150		1.7
10/11/00		44.39	6.48	**9,900**	**6,200**	**360**	---	**3,400**	**61**	**69**	**178**	ND<10	---	---
11/14/00		well destroyed												
MW-1A	51.08													
2/1/01		well reinstalled												
2/14/01		46.54	4.33	**500**	**210**	ND<170	---	**77**	**3.1**	**1.3**	**5.0**	ND<1.0	ND<2.5-50	---
4/12/01		49.30	1.78	**900**	***200 w/ sgc***	ND< 170	---	**110**	**4.3**	**3.9**	**5.1**	ND<1.0	ND<1-50	1
7/10/01		46.19	4.89	**1,400**	**680**	ND<170	---	**41**	**4.0**	**5.1**	**3.5**	ND<1.0	ND<1-20	0.5
11/1/01		45.70	5.38	**200**	ND<50	ND<170	---	**15**	**0.71**	**0.64**	**1.2**	ND<1.0	ND<1-20	---
12/10/01		50.56	0.52	**88**	**53**	ND<170	---	**8.7**	ND<0.50	ND<0.50	**0.73**	ND<1.0	**COD - 63,000**	0.4
3/28/02		49.63	1.45	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	1.0
6/27/02		47.26	3.82	**65**	ND<50	ND<170	---	**1.8**	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	0.4
9/11/02		44.17	6.91	**190**	ND<50	ND<170	---	**17**	ND<0.50	**0.52**	**0.68**	ND<1.0	ND<1-20	---
1/31/03		48.26	2.82	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	4.4
3/26/03		50.86	0.22	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	2.84
6/19/03		48.00	3.08	ND<50	ND<50	ND<170	---	**11**	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	0.94
9/24/03		44.47	6.61	**150**	ND<50	ND<170	---	**0.71**	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	0.00
12/18/03		50.28	0.80	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	0.62
3/23/04		49.24	1.84	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	0.20
6/29/04		46.96	4.12	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	0.56
9/23/04		43.23	7.85	**310**	ND<50	---	---	**28**	ND<2.0	ND<0.50	**0.51**	ND<15	---	0.27
12/14/04		49.58	1.50	**250**	ND<50	---	---	**12**	ND<1.0	ND<0.50	ND<0.50	ND<13	**Iron = 690**	---
MW-2	51.86													
10/7/93		42.20	9.66	**11,000**	**870** [6, 7]	ND <500	---	**4,200**	**55**	ND <10	**19**	---	Tannin/Lignin = 20	---
11/11/93		42.58	9.28	---	---	---	---	---	---	---	---	---	---	---
12/29/93		46.65	5.21	---	---	---	---	---	---	---	---	---	---	---
1/24/94		51.65	0.21	**12,000**	**1,500**	ND <500	---	**3,800**	**68**	**82**	**243**	---	---	---
2/24/94		51.31	0.55	---	---	---	---	---	---	---	---	---	---	---
3/28/94		50.03	1.83	---	---	---	---	---	---	---	---	---	---	---
4/25/94		50.50	1.36	**22,000**	**6,500**	---	ND	**6,800**	**99**	**210**	**420**	---	Tannin/Lignin = 74	---
5/12/94		47.82	4.04	---	---	---	---	---	---	---	---	---	---	---
6/3/94		46.78	5.08	---	---	---	---	---	---	---	---	---	---	---
7/19/94		44.68	7.18	**16,000**	**8,600**	---	3,500	**4,400**	**120**	**160**	**300**	---	Tannin/Lignin: ND	3.2
9/21/94		42.26	9.60	---	---	---	---	---	---	---	---	---	---	---
10/25/94		40.99	10.87	**17,000**	**3,400**	---	ND	**6,400**	ND	**120**	**190**	---	Tannin/Lignin = 83	2.0
11/16/94		45.85	6.01	---	---	---	---	---	---	---	---	---	---	---
12/8/94		48.17	3.69	---	---	---	---	---	---	---	---	---	---	---
1/9/95		51.81	0.05	**13,000**	**7,500**	---	ND	**3,200**	**75**	**160**	**890**	---	Tannin/Lignin = 55	3.0
2/7/95		50.77	1.09	---	---	---	---	---	---	---	---	---	---	---
3/7/95		50.35	1.51	---	---	---	---	---	---	---	---	---	---	---
4/5/95		49.96	1.90	**20,000**	**8,800**	---	ND	**5,900**	**150**	**450**	**2,000**	---	Tannin/Lignin = 77	5.0

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-2 continued														
6/23/95		46.93	4.93	---	---	---	---	---	---	---	---	---	---	---
7/5/95		45.91	5.95	19,000	11,000	---	ND	6,400	140	330	1,100	---	Tannin/Lignin = 120	3.5
8/3/95		44.79	7.07	---	---	---	---	---	---	---	---	---	---	---
9/6/95		43.83	8.03	---	---	---	---	---	---	---	---	---	---	---
10/9/95		42.99	8.87	14,000	8,800	---	ND	7,000	140	230	470	---	Tannin/Lignin = 83	2.0
11/16/95		42.41	9.45	---	---	---	---	---	---	---	---	---	---	---
1/16/96		51.59	0.27	10,000	11,000	---	1.5	3,100	74	110	490	---	Tannin/Lignin = 57	3.0
4/23/96		50.59	1.27	13,000	14,000	---	2.3	3,700	85	190	920	---	Tannin/Lignin = 74	4.0
7/10/96		46.26	5.60	15,000	13,000	---	ND	4,600	160	220	760	---	Tannin/Lignin = 86	4.0
10/22/96		43.31	8.55	7,100	8,500	---	2.8	3,300	77	96	180	340	Tannin/Lignin = 220	3.0
1/21/97		50.41	1.45	12,000	9,700	---	4.6	2,500	60	110	660	ND	Tannin/Lignin = 43	3.0
1/21/97 (D)		duplicate sample		11,000	10,000	---	---	2,400	58	100	650	ND		---
4/15/97		47.31	4.55	9,500	7,300	---	3.6	2,600	60	110	470	160	Tannin/Lignin = 47	3.0
5/20/97		46.91	4.95	---	---	---	---	---	---	---	---	---	---	---
7/29/97		44.76	7.10	14,000	8,600	---	---	5,100	110	140	280	ND	---	3.0
7/29/97 (D)		duplicate sample		14,000	8,400	---	---	4,800	120	130	250	ND	---	---
10/15/97		44.86	7.00	19,000	8,700 [8]	---	1.3	4,500	130	120	170	ND <250	---	3.0
10/15/97 (D)		duplicate sample		16,000	6,300 [8]	---	---	4,200	120	100	150	ND <250	---	---
1/20/98		51.61	0.25	7,900	8,100	---	ND	1,700	40	72	200	ND	---	2.0
4/15/98		51.03	0.83	9,900	8,500	---	65	2,300	50	100	280	ND	Tannin/Lignin = 42	2.2
7/28/98		45.33	6.53	9,700	5,300	---	ND <5.0	2,400	81	140	400	ND <25	Tannin/Lignin = 34	2.4
7/28/98 (D)		duplicate sample		9,300	4,500	---	---	2,400	80	140	390	31	---	---
1/26/00		50.83	1.03	7,900	2,400	ND <500	---	3,300	70	93	84	ND<10		---
5/3/00		48.64	3.22	5,800	55	ND<170	---	1,600	ND<80	120	214	ND<30	---	---
8/3/00		44.74	7.12	10,000	92	ND<170	---	3,200	69	90	108	ND<200	---	0.8
10/11/00		42.37	9.49	11,000	ND<50	ND<170	---	4,900	97	100	76	ND<20	---	0.6
1/4/2001		46.09	5.77	3,000	280	ND<170	---	670	20	37	34.6	ND<2.0	---	---
4/12/01		49.59	2.27	1,100	*65 w/ silica gel cleanup*	*ND<170*	---	230	2.4	14	7.7	ND<2.0	---	0.8
7/10/01		44.86	7.00	5,600	3,100	270	---	1,700	23	39	29	ND<10	ND<10-200	0.3
11/1/01		40.81	11.05	10,000	360	ND<170	---	3,900	53	41	37.3	ND<5.0	ND<5-100	---
12/10/01		47.36	4.50	10,000	140	ND<170	---	4,600	77	53	41.5	ND<1.0	**COD - 380,000**	2.8
3/28/02		48.49	3.37	6,200	270	ND<170	---	1,900	34	34	37	ND<50	ND<50-1000	1.0
6/27/02		44.83	7.03	5,800	310	ND<170	---	3,800	56	34	ND<25	ND<50	ND<50-1000	0.5
9/11/02		45.78	6.08	7,700	160	ND<170	---	2,600	50	39	25	ND<50	ND<50-1000	---
12/4/02		well destroyed												
MW-3	50.87													
10/7/93		40.28	10.59	340	230 [6]	ND <500	---	140	3.0	1.3	2.8	---	---	---
11/11/93		39.48	11.39	---	---	---	---	---	---	---	---	---	---	---
12/29/93		43.91	6.96	---	---	---	---	---	---	---	---	---	---	---
1/24/94		49.57	1.30	690	170	ND <500	---	150	5.4	2.6	4.2	---	---	---
2/24/94		47.11	3.76	---	---	---	---	---	---	---	---	---	---	---
3/28/94		45.63	5.24	---	---	---	---	---	---	---	---	---	---	---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-3 continued														
4/25/94		46.27	4.60	860	1,100	---	ND	190	ND	ND	ND	---	---	---
5/12/94		44.45	6.42	---	---	---	---	---	---	---	---	---	---	---
6/3/94		43.85	7.02	---	---	---	---	---	---	---	---	---	---	---
7/19/94		41.95	8.92	980	2,200	---	ND	240	10	4.7	11	---	---	4.0
9/21/94		39.38	11.49	---	---	---	---	---	---	---	---	---	---	---
10/25/94		38.40	12.47	530	1,200	---	ND	170	ND	ND	ND	---	---	3.0
11/16/94		39.47	11.40	---	---	---	---	---	---	---	---	---	---	---
12/8/94		44.48	6.39	---	---	---	---	---	---	---	---	---	---	---
1/9/95		50.83	0.04	510	1,100	---	ND	110	2.0	1.6	2.3	---	---	5.0
2/7/95		46.51	4.36	---	---	---	---	---	---	---	---	---	---	---
3/7/95		46.11	4.76	---	---	---	---	---	---	---	---	---	---	---
4/5/95		45.76	5.11	480	1,500	---	ND	130	3.1	ND	2.7	---	---	3.0
6/23/95		43.92	6.95	---	---	---	---	---	---	---	---	---	---	---
7/5/95		43.38	7.49	560	1,700	---	ND	130	4.6	1.6	2.1	---	---	3.0
8/3/95		42.40	8.47	---	---	---	---	---	---	---	---	---	---	---
9/6/95		41.19	9.68	---	---	---	---	---	---	---	---	---	---	2.5
10/9/95		40.46	10.41	570	2,300	---	ND	210	3.8	ND	4.6	---	---	---
11/16/95		39.82	11.05	---	---	---	---	---	---	---	---	---	---	---
1/16/96		48.44	2.43	680	2,200	---	1.4	200	3.8	ND	3.1	---	---	4.0
4/23/96		46.17	4.70	520	2,300	---	ND	160	2.2	ND	2.2	---	---	4.0
7/10/96		44.12	6.75	680	2,100	---	ND	240	5.4	ND	5.9	---	---	4.0
10/22/96		42.17	8.70	550	2,600	---	ND	210	2.2	ND	3.9	27	---	4.0
1/21/97		45.47	5.40	370	1,400	---	ND	87	1.2	ND	1.1	7.7	---	3.0
4/15/97		44.12	6.75	820	1,800	---	ND	170	3.3	2.5	4.2	32	---	4.0
7/29/97		43.27	7.60	790	2,300	---	---	230	ND	ND	ND	ND	---	4.0
10/15/97		43.62	7.25	210	2,100 [8]	---	ND <1.2	49	0.60	ND <0.50	0.57	4.9	---	3.0
1/20/98		49.59	1.28	370	1,100	---	ND	67	ND	ND	0.80	15	---	3.0
4/15/98		46.37	4.50	1,600	2,600	---	17	310	ND	ND	ND	ND	---	2.6
7/28/98		42.72	8.15	960	2,900	---	ND <5.0	230	6.2	3.8	4.2	6.7	---	2.0
1/26/00		46.87	4.00	1,400	370	ND <500	---	270	7.5	2.2	3.9	ND<8.0	---	---
5/3/00		44.88	5.99	640	ND<50	ND<170	---	200	ND<10	2.5	1.7	ND<10	---	---
8/3/00		42.07	8.80	1,000	ND<50	ND<170	---	210	8.5	2.8	3.0	ND<30	---	0.7
10/11/00		39.62	11.25	5,800	ND<50	ND<170	---	500	39	47	22.2	ND<20	---	0.8
1/4/2001		43.01	7.86	1,800	94	ND<170	---	580	9.1	3.3	4.0	ND<2	---	---
4/12/01		45.38	5.49	ND<100	*ND<50 w/ silica gel*	ND<170	---	10	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	0.9
7/10/01		41.70	9.17	2,300	94	ND<170	---	610	12	4.3	8.14	ND<1.0	TBA - 20 DIPE-1.8	1.0
11/1/01		Well is buried		---	---	---	---	---	---	---	---	---	---	---
12/10/01		46.15	4.72	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	5.1
3/28/02		45.80	5.07	82	62	ND<170	---	11	ND<0.50	ND<0.50	0.61	ND<1.0	ND<1-20	---
6/27/02		Well inaccessible		---	---	---	---	---	---	---	---	---	---	---
3/25/03		---	---	---	---	---	---	---	---	---	---	---	---	
9/23/03		40.90	9.97	1,000	65	ND<170	---	200	3.9	1.2	2.0	ND<1.0	ND<1-20	0.63
3/23/04		44.55	6.32	710	ND<50	ND<170	---	130	2.1	0.71	1.2	ND<1.0	ND<1-10	0.65

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-3 Continued														
9/22/04		39.64	11.23	**2,100**	**110**	ND<170	---	**480**	**16**	**3.9**	**6.9**	ND<20	---	0.52
3/30/05		48.64	2.23	**180**	ND<50	ND<170	---	**38**	**1.2**	ND<0.50	**0.59**	ND<3.0	---	0.51
4/26/05		44.58	6.29	**1,400**	**71**	---	---	**270**	**11**	**2.7**	**4.5**	ND<20	---	0.42
MW-4	52.62													
6/3/94		48.79	3.83	---	---	---	---	---	---	---	---	---	---	---
7/19/94		47.27	5.35	ND	ND	---	**2,800**	ND	ND	ND	ND	---	Tannin/Lignin = ND	3.0
9/21/94		44.29	8.33	---	---	---	---	---	---	---	---	---	---	---
10/25/94		42.99	9.63	ND	ND	---	ND	ND	ND	ND	ND	---	---	7.0
11/16/94		47.75	4.87	---	---	---	---	---	---	---	---	---	---	---
12/8/94		49.87	2.75	---	---	---	---	---	---	---	---	---	---	---
1/9/95		52.62	0.00	ND	**300**	---	ND	ND	ND	ND	ND	---	---	6.0
2/7/95		51.76	0.86	---	---	---	---	---	---	---	---	---	---	---
3/7/95		51.43	1.19	---	---	---	---	---	---	---	---	---	---	---
4/5/95		51.07	1.55	ND	**86**	---	ND	ND	ND	ND	ND	---	---	4.0
6/23/95		49.47	3.15	---	---	---	---	---	---	---	---	---	---	---
7/5/95		48.87	3.75	ND	**130**	---	ND	ND	ND	ND	ND	---	---	2.5
8/3/95		47.69	4.93	---	---	---	---	---	---	---	---	---	---	---
9/6/95		46.42	6.20	---	---	---	---	---	---	---	---	---	---	---
10/9/95		46.21	6.41	ND	**69**	---	ND	ND	ND	ND	ND	---	---	2.5
1/16/96		51.75	0.87	ND	**95**	---	**1.1**	ND	ND	ND	ND	---	---	4.5
4/23/96		51.42	1.20	ND	**59**	---	ND	ND	ND	ND	ND	---	---	4.0
7/10/96		48.37	4.25	ND	**53**	---	ND	ND	ND	ND	ND	---	---	4.0
10/22/96		46.10	6.52	ND	**86**	---	ND	ND	ND	ND	ND	ND	---	4.0
1/21/97		51.37	1.25	ND	**81**	---	ND	ND	ND	ND	ND	ND	---	3.0
4/15/97		49.62	3.00	ND	ND	---	ND	ND	ND	ND	ND	ND	---	3.0
5/20/97		49.10	3.52	---	---	---	---	---	---	---	---	---	---	---
7/29/97		46.97	5.65	ND	**210**	---	---	ND	ND	ND	ND	ND	---	3.0
10/15/97		46.67	5.95	ND <50	ND <50	---	ND <1.3	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	2.0
1/20/98		49.97	2.65	ND	**140**	---	ND	ND	ND	ND	ND	ND	---	2.0
4/15/98		51.27	1.35	ND	ND	---	**1.0**	ND	ND	ND	ND	ND	---	2.4
7/28/98		47.72	4.90	ND <50	**75**	---	ND <5.0	ND <0.50	**1.1**	ND <0.50	ND <0.50	ND <2.5	---	3.2
1/26/00		51.85	0.77	ND<50	ND<50	ND<500	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**37**	---	---
5/3/00		51.13	1.49	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
8/3/00		48.33	4.29	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	1.2
8/3/00		duplicate sample		ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
10/11/00		45.65	6.97	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	---	0.8
1/4/2001		49.91	2.71	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	---	---
4/12/01		50.81	1.81	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	---	1.2
7/10/01		47.20	5.42	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.50-20	0.4
11/1/01		45.55	7.07	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.50-20	---
12/10/01		51.56	1.06	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	**COD - 7700**	0.6
3/28/02		51.06	1.56	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<1-20	1.0
6/27/02		47.96	4.66	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<1-20	0.8
9/11/02		45.22	7.40	ND<50	ND<50	ND<170	---	**1.6**	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<1-20	---
12/4/02		Well destroyed												

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-5	52.40													
6/3/94		47.96	4.44	---	---	---	---	---	---	---	---	---	---	---
7/19/94		46.57	5.83	ND	**400**	---	ND	ND	ND	ND	ND	---	---	4.0
9/21/94		43.70	8.70	---	---	---	---	---	---	---	---	---	---	---
10/25/94		42.40	10.00	ND	**78**	---	ND	ND	ND	ND	ND	---	---	1.0
11/16/94		47.42	4.98	---	---	---	---	---	---	---	---	---	---	---
12/8/94		48.75	3.65	---	---	---	---	---	---	---	---	---	---	---
1/9/95		51.32	1.08	ND	**330**	---	ND	**1.8**	ND	ND	**2.2**	---	---	5.0
2/7/95		50.54	1.86	---	---	---	---	---	---	---	---	---	---	---
3/7/95		50.02	2.38	---	---	---	---	---	---	---	---	---	---	---
4/5/95		49.84	2.56	**53**	**380**	---	ND	**2.4**	**0.53**	**0.53**	**3.0**	---	---	3.0
6/23/95		48.33	4.07	---	---	---	---	---	---	---	---	---	---	---
7/5/95		47.59	4.81	ND	**400**	---	ND	ND	ND	ND	ND	---	---	4.0
7/5/95 (D)		duplicate sample		ND	**370**	---	ND	ND	ND	ND	ND	---	---	---
8/3/95		46.50	5.90	---	---	---	---	---	---	---	---	---	---	---
9/6/95		45.56	6.84	---	---	---	---	---	---	---	---	---	---	---
10/9/95		45.08	7.32	ND	**50**	---	ND	ND	ND	ND	ND	---	---	6.0
11/16/95		44.77	7.63	---	---	---	---	---	---	---	---	---	---	---
1/16/96		51.30	1.10	ND	**560**	---	**1.4**	**4.2**	**0.78**	**0.58**	**2.9**	---	---	3.0
4/23/96		50.30	2.10	ND	**590**	---	ND	**2.3**	ND	ND	**1.1**	---	---	4.0
7/10/96		47.65	4.75	ND	**380**	---	ND	ND	ND	ND	ND	---	---	3.0
7/10/96		duplicate sample		ND	**380**	---	ND	**0.52**	ND	ND	ND	---	---	---
10/22/96		45.50	6.90	ND	**320**	---	ND	ND	ND	ND	ND	ND	---	3.0
1/21/97		50.05	2.35	75	**630**	---	ND	**0.90**	ND	ND	**0.82**	**3.2**	---	3.0
4/15/97		48.40	4.00	ND	**330**	---	ND	**0.69**	ND	ND	ND	ND	---	3.0
5/20/97		48.72	3.68	---	---	---	---	---	---	---	---	---	---	---
7/29/97		46.70	5.70	ND	**450**	---	---	ND	ND	ND	ND	ND	---	3.0
10/15/97		46.05	6.35	ND <50	**450** [8]	---	ND <1.1	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	3.0
1/20/98		50.25	2.15	ND	**430**	---	ND	ND	ND	ND	ND	ND	---	3.0
4/15/98		50.35	2.05	ND	**550**	---	**6.4**	**0.5**	ND	ND	ND	ND	---	2.8
7/28/98		46.90	5.50	ND <50	**220**	---	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	2.6
1/26/00		Well not found		---	---	---	---	---	---	---	---	---	---	---
5/3/00		Well not found		---	---	---	---	---	---	---	---	---	---	---
8/3/00		Well not found		---	---	---	---	---	---	---	---	---	---	---
10/11/00		Well not found		---	---	---	---	---	---	---	---	---	---	---
1/4/2001		Well not found		---	---	---	---	---	---	---	---	---	---	---
4/12/01		49.65	2.75	ND <50	ND<50	ND<170	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	0.7
7/10/01		46.32	6.08	ND <50	ND<50	ND<170	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<0.50-20	0.4
11/1/01		43.95	8.45	ND <50	ND<50	ND<170	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<0.50-20	---
12/10/01		50.40	2.00	ND <50	ND<50	ND<170	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<0.50-20	1.4
3/28/02		50.21	2.19	ND <50	ND<50	ND<170	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<0.50-20	0.9
6/27/02		48.30	4.10	ND <50	ND<50	ND<170	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<0.50-20	0.35
9/11/02		Well not found	---	---	---	---	---	---	---	---	---	---	---	---
12/4/02		Well destroyed												

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-6	50.63													
6/3/94		46.32	4.31	---	---	---	---	---	---	---	---	---	---	---
7/19/94		44.63	6.00	ND	ND	---	ND	ND	ND	ND	ND	---	---	2.0
9/21/94		42.17	8.46	---	---	---	---	---	---	---	---	---	---	---
10/25/94		41.30	9.33	ND	ND	---	ND	ND	ND	ND	ND	---	---	2.0
11/16/94		48.24	2.39	---	---	---	---	---	---	---	---	---	---	---
12/8/94		48.75	1.88	---	---	---	---	---	---	---	---	---	---	---
1/9/95		49.62	1.01	ND	**150**	---	ND	ND	ND	ND	ND	---	---	3.0
2/7/95		49.01	1.62	---	---	---	---	---	---	---	---	---	---	---
3/7/95		48.28	2.35	---	---	---	---	---	---	---	---	---	---	---
4/5/95		48.20	2.43	ND	**87**	---	ND	**0.81**	ND	ND	ND	---	---	2.0
6/23/95		47.46	3.17	---	---	---	---	---	---	---	---	---	---	---
7/5/95		46.65	3.98	ND	**120**	---	ND	ND	ND	ND	ND	---	---	3.5
8/3/95		46.03	4.60	---	---	---	---	---	---	---	---	---	---	---
9/6/95		46.13	4.50	---	---	---	---	---	---	---	---	---	---	---
10/9/95		47.14	3.49	ND	**150**	---	ND	ND	ND	ND	ND	---	---	1.5
11/16/95		48.11	2.52	---	---	---	---	---	---	---	---	---	---	---
1/16/96		49.70	0.93	ND	**200**	---	**1.3**	ND	ND	ND	ND	---	---	2.0
4/23/96		49.38	1.25	ND	**140**	---	ND	ND	ND	ND	ND	---	---	3.0
7/10/96		47.78	2.85	ND	**120**	---	ND	ND	ND	ND	ND	---	---	3.0
10/22/96		47.40	3.23	ND	**120**	---	ND	ND	ND	ND	ND	---	---	3.0
10/22/96 (D)		duplicate sample		ND	**140**	---	ND	ND	ND	ND	ND	ND	---	---
1/21/97		50.08	0.55	ND	**120**	---	ND	ND	ND	ND	ND	**3.7**	---	3.0
4/15/97		48.88	1.75	ND	ND	---	ND	ND	ND	ND	ND	ND	---	3.0
5/20/97		47.96	2.67	---	---	---	---	---	---	---	---	---	---	---
7/29/97		47.13	3.50	ND	**99**	---	---	ND	ND	ND	ND	ND	---	3.0
10/15/97		47.53	3.10	ND <50	**86** [8]	---	ND <1.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	3.0
1/20/98		49.38	1.25	ND	**52** [8]	---	ND	ND	ND	ND	ND	ND	---	2.0
4/15/98		49.28	1.35	ND	ND	---	**2.8**	ND	ND	ND	ND	ND	---	2.6
7/28/98		47.15	3.48	ND <50	**74** [8]	---	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	2.4
1/26/00		49.23	1.40	ND<50	ND<50	ND<500	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	**37**	---	---
5/3/00		47.95	2.68	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	---
8/3/00		44.50	6.13	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	**5.7**	---	0.7
10/11/00		44.83	5.80	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	**31**	---	1.0
1/4/2001		46.56	4.07	ND<50	ND<50	ND<170	---	**5.8**	ND <0.50	ND <0.50	ND <0.50	**23**	---	---
4/12/01		48.70	1.93	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	**10**	---	1.1
7/10/01		44.97	5.66	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	**31**	ND<0.50-20	0.5
11/1/01		45.14	5.49	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	**25**	ND<1-20	---
12/10/01		49.27	1.36	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	**14**	ND<1-20	0.4
3//28/02		48.33	2.30	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	**0.51**	**32**	**TAME - 1.7**	0.9
6/27/02		46.43	4.20	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	**14**	ND<1-20	1.1
9/11/02		43.73	6.90	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	**15**	ND<1-20	---
12/5/02		Well destroyed												

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-7/ V-2	51.05													
6/3/94		42.49	8.56	---	---	---	---	---	---	---	---	---	---	---
7/19/94		40.62	10.43	5,100	4,700	---	2,700	460	87	160	130	---	---	3.0
9/21/94		36.83	14.22	---	---	---	---	---	---	---	---	---	---	---
10/25/94		35.87	15.18	4,000	2,500	---	ND	430	46	95	59	---	---	1.0
11/16/94		39.29	11.76	---	---	---	---	---	---	---	---	---	---	---
12/8/94		43.88	7.17	---	---	---	---	---	---	---	---	---	---	---
1/9/95		49.78	1.27	3,400	3,000	---	ND	350	66	99	73	---	---	5.0
2/7/95		46.73	4.32	---	---	---	---	---	---	---	---	---	---	---
3/7/95		46.41	4.64	---	---	---	---	---	---	---	---	---	---	---
4/5/95		45.95	5.10	2,900	2,100	---	ND	340	38	61	39	---	---	4.0
6/23/95		42.86	8.19	---	---	---	---	---	---	---	---	---	---	---
7/5/95		42.75	8.30	3,500	2,700	---	ND	390	60	74	30	---	---	3.0
8/3/95		41.31	9.74	---	---	---	---	---	---	---	---	---	---	---
9/6/95		39.47	11.58	---	---	---	---	---	---	---	---	---	---	---
10/9/95		38.01	13.04	2,500	4,300	---	ND	330	45	55	35	---	---	2.5
11/16/95		36.76	14.29	---	---	---	---	---	---	---	---	---	---	---
1/16/96		47.83	3.22	1,900	4,900	---	3.1	250	38	49	43	---	---	4.0
1/16/96 (D)		duplicate sample		2,100	3,300	---	---	290	46	34	47	---	---	---
4/23/96		46.40	4.65	2,400	2,100	---	2.2	250	32	41	20	---	---	3.0
7/10/96		43.85	7.20	3,900	3,900	---	ND	570	54	110	83	---	---	3.0
10/22/96		38.25	12.80	3,200	4,100	---	2.2	390	54	57	43	87	---	4.0
1/21/97		45.95	5.10	2,900	5,500	---	2.5	370	15	41	33	250	---	3.0
4/15/97		43.50	7.55	4,200	3,000	---	2.9	340	37	50	45	ND	---	4.0
5/20/97		43.40	7.65	---	---	---	---	---	---	---	---	---	---	---
7/29/97		40.70	10.35	3,800	4,200	---	---	450	41	67	54	ND	---	4.0
10/15/97		39.00	12.05	3,900	7,300 [8]	---	1.8	350	55	58	35	120	---	4.0
1/20/98		49.90	1.15	2,000	2,300	---	1.1	140	23	ND	17	64	---	3.0
4/15/98		46.60	4.45	6,300	3,600	---	30	530	34	37	63	ND	---	3.0
7/28/98		41.40	9.65	3,100	2,600	---	ND <5.0	360	29	32	26	36	---	2.6
1/26/00		46.69	4.36	3,700	1,000	ND<500	---	280	ND<0.50	27	19	ND<30	---	---
5/3/00		44.66	6.39	400	89	ND<170	---	61	ND<10	ND<3.0	ND<3.0	ND<10	---	---
8/3/00		40.27	10.78	890	ND<50	ND<170	---	120	14	9	5.3	ND<50	---	0.9
10/11/00		37.03	14.02	390	ND<50	ND<170	---	180	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	0.8
1/4/2001		41.42	9.63	3,200	260	ND<170	---	340	24	25	18.6	ND<1.0	---	---
4/12/01		45.41	5.64	380	*ND<50 w/ silica*	ND<170	---	39	1.4	1.4	ND<1.0	ND<1.0	---	0.5
7/10/01		40.11	10.94	4,500	420	ND<170	---	380	33	36	32.6	ND<1.0	ND<1-20	2.0
11/1/01		35.98	15.07	2,600	220	ND<170	---	340	26	26	21.7	ND<2.0	ND<2-40	---
12/10/01		46.31	4.74	ND<50	ND<50	ND<170	---	2.5	ND <0.50	ND <0.50	ND <0.50	ND<1.0	**COD - 76000**	3.7
3/28/02		46.40	4.65	1,000	140	ND<170	---	41	3.4	4.4	4.0	ND<1.0	ND<1-20	1.0
6/27/02		42.89	8.16	2,700	350	ND<170	---	370	25	23	19	ND<10	ND<1-200	0.4
9/11/02		39.70	11.35	4,100	270	ND<170	---	320	22	ND<2.5	20	ND<5.0	**TBA - 120**	1.4
3/27/03		---	---	3,300	140	ND<170	---	130	16	22	19.8	ND<1.0	ND<1.0-20	
9/23/03		40.05	11.00	1,200	74	ND<170	---	120	11	12	7.0	ND<1.0	ND<1.0-20	0.0
3/23/04		44.96	6.09	690	ND <50	ND<170	---	26	2.4	3.0	2.7	ND<1.0	ND<1-10	0.68

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-7/ V-2 continued														
9/22/04		37.89	13.16	**1,800**	**75**	ND<170	---	**230**	**28**	**16**	**10**	ND<70	---	0.25
4/26/05		45.25	5.80	**500**	ND <50	---	---	**13**	**4.9**	**2.8**	**2.1**	ND<18	---	0.65
MW-8	51.13													
5/20/97		43.70	7.43	ND	**74**	---	ND	ND	ND	ND	ND	ND	---	---
7/29/97		41.78	9.35	ND	**150**	---	---	ND	ND	ND	ND	ND	---	2.0
10/15/97		39.86	11.27	ND <50	**160** [8]	---	ND <1.1	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	3.0
1/20/98		49.28	1.85	ND	**110**	---	ND	ND	ND	ND	ND	ND	---	2.0
4/15/98		48.13	3.00	ND	ND	---	**4.1**	ND	ND	ND	ND	ND	---	2.2
7/28/98		42.68	8.45	ND <50	ND <50	---	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	2.6
1/26/00		48.08	3.05	ND<50	ND<50	ND<500	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	---
5/3/00		44.47	6.66	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	---
8/3/00		41.85	9.28	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	1.6
10/11/00		39.06	12.07	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<0.5	---	1.0
1/4/2001		40.89	10.24	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<0.5	---	---
4/12/01		44.16	6.97	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<0.5	---	1
7/10/01		42.13	9.00	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<0.5	ND<1.0-20	0.4
11/1/01		37.89	13.24	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<0.5	ND<1.0-20	---
12/10/01		44.01	7.12	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<0.5	ND<1.0-20	4.7
3/28/02		46.25	4.88	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<0.5	ND<1.0-20	1.0
6/20/02		Well Destroyed	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	53.13													
5/20/97		42.95	10.18	**1,200**	**1,700**	---	**7.6**	**400**	ND	ND	ND	ND	---	---
7/29/97		40.93	12.20	**530**	**5,500**	---	---	**150**	ND	ND	ND	ND	---	2.0
10/15/97		39.13	14.00	**3,200**	**13,000** [6]	---	**13**	**160**	ND <2.5	ND <2.5	ND <2.5	**18**	---	3.0
1/20/98		49.23	3.90	**150**	**990**	---	ND	**34**	ND	ND	ND	ND	---	2.0
4/15/98		47.18	5.95	**460**	**940**	---	**26**	**2.5**	ND	ND	ND	ND	---	2.6
7/28/98		41.93	11.20	**240**	**1,200**	---	ND <5.0	**66**	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	2.2
1/26/00		46.88	6.25	**1300**	**280**	ND<500	---	**470**	**2.6**	**1.9**	ND <0.50	ND<3.0	---	---
5/3/00		43.88	9.25	**340**	ND<50	ND<170	---	**100**	**1.1**	**0.93**	ND<0.50	ND<3.0	---	---
8/3/00		41.33	11.80	**350**	ND<50	ND<170	---	**120**	**1.1**	**1.2**	ND<1.5	ND<15	---	1.1
10/11/00		38.85	14.28	**810**	ND<50	ND<170	---	**390**	ND <2.0	ND <2.0	ND <2.0	ND <2.0	---	0.7
1/4/2001		40.69	12.44	**950**	**230**	ND<170	---	**380**	**2.2**	ND<1.0	ND<1.0	ND<1.0	---	---
4/12/01		42.44	10.69	**1,600**	*67 w/ silca gel cleanup*	ND< 170	---	**740**	**5.4**	**2.1**	ND<2.0	ND<1.0	---	1.7
7/10/01		41.35	11.78	**360**	**730**	ND< 170	---	**45**	**1.2**	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	4.0
11/1/01		37.34	15.79	**1,100**	**160**	ND< 170	---	**310**	**3.2**	**0.62**	**0.80**	ND<1.0	ND<1.0-20	
12/10/01		43.83	9.30	**270**	ND<50	ND< 170	---	**39**	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	
3/28/02		45.59	7.54	**350**	**91**	ND< 170	---	**1.8**	ND <0.50	ND <0.50	**0.59**	ND<1.0	ND<1.0-20	1.0
6/27/02		42.44	10.69	**130**	**62**	---	---	**8.3**	ND<1.0	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	---
9/11/02		39.47	13.66	**690**	**110**	ND< 170	---	**2.7**	ND<1.0	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	0.7
3/27/03		46.97	6.16	**240**	**58**	**250**	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	3.52
9/23/03		41.11	12.02	**330**	ND<50	ND< 170	---	**0.78**	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	0.00

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-9 Continued														
3/23/04		44.24	8.89	**130**	ND<50	ND< 170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1-10	0.28
9/22/04		38.51	14.62	**280**	**69**	ND< 170	---	ND <3.0	ND <1.0	ND <0.50	ND <0.50	ND<3.0	---	0.71
4/26/05		44.57	8.56	**160**	**69**	---	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	0.54
MW-10	51.42													
5/20/97		43.05	8.37	ND	**910**	---	**7.6**	ND	ND	ND	ND	ND	---	---
7/29/97		41.82	9.60	ND	**1,100**	---	---	ND	ND	ND	ND	ND	---	3.0
10/15/97		41.72	9.70	ND <50	**860** [8]	---	ND <1.1	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	2.0
1/20/98		48.17	3.25	ND	**640**	---	ND	ND	ND	ND	ND	ND	---	2.0
4/15/98		45.17	6.25	ND	**800**	---	**5.6**	ND	ND	ND	ND	ND	---	2.4
7/28/98		41.37	10.05	ND <50	**740**	---	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	2.6
1/26/00		45.67	5.75	ND<50	**69**	ND<500	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	---
5/3/00		43.75	7.67	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	---
8/3/00		40.14	11.28	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	0.8
10/11/00		37.04	14.38	ND<500	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<2.0	---	1.4
1/4/2001		41.78	9.64	ND<500	ND<50	ND<170	---	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	---
4/12/01		44.39	7.03	ND<250	ND<50	ND<170	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	1.2
7/10/01		39.92	11.50	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	0.5
11/1/01		36.15	15.27	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	---
12/10/01		45.16	6.26	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	4.7
3/28/02		44.80	6.62	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	1.1
6/27/02		42.05	9.37	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	0.95
9/11/02		38.63	12.79	ND<50	ND<50	ND<170	---	**1.6**	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	1.8
3/27/03		47.16	4.26	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	3.65
9/23/03		39.10	12.32	**61**	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	0.00
3/23/04		43.85	7.57	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<1.0	ND<1-10	0.48
9/22/04		37.62	13.80	ND<50	ND<50	ND<170	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	0.26
3/30/05		47.71	3.71	---	---	---	---	---	---	---	---	---	---	---
4/26/05		44.07	7.35	ND<50	ND<50	---	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	0.68
MW-11	48.30													
5/20/97		34.34	13.96	ND	---	---	---	ND	ND	ND	ND	---	---	---
7/29/97		32.30	16.00	----- Insufficient amount of water to sample -----										
10/15/97		32.45	15.85	----- Insufficient amount of water to sample -----										
1/20/98		---	---	----- Well Inaccessible -----										
4/15/98		---	---	----- Well Inaccessible -----										
5/14/98		---	---	ND	**320**	---	---	ND	ND	ND	ND	---	---	---
7/28/98		33.05	15.25	----- Insufficient amount of water to sample -----										
1/26/00		37.89	10.41	ND<50	ND<50	ND<500	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
5/3/00		35.13	13.17	ND<50	ND<50	ND<170	---	ND<0.50	**0.73**	ND<0.50	ND<0.50	ND<3.0	---	---
8/3/00	----- Insufficient amount of water to sample -----			----- Insufficient amount of water to sample -----										
10/11/00	----- Insufficient amount of water to sample -----			----- Insufficient amount of water to sample -----										
1/4/2001	----- Insufficient amount of water to sample -----			----- Insufficient amount of water to sample -----										
4/12/01		34.92	13.38	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	2.1
7/10/01	----- Insufficient amount of water to sample -----			----- Insufficient amount of water to sample -----										
11/1/01	----- Insufficient amount of water to sample -----			----- Insufficient amount of water to sample -----										
12/10/01		35.45	12.85	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	5.4
3/28/02		37.06	11.24	ND<50	ND<50	**210**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	1.69

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-11 Continued														
6/27/02	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
9/11/02	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
3/27/03		40.69	7.61	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	3.7
9/23/03	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
3/23/04		35.06	13.24	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	---
9/22/04	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
3/30/05		39.58	8.72	---	---	---	---	---	---	---	---	---	---	---
4/26/05		35.34	12.96	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
MW-12	51.11													
5/20/97		47.67	3.44	47,000	7,000	---	7.8	12,000	1,600	1,000	2,600	ND	---	---
7/29/97		43.76	7.35	67,000	4,500	---	---	24,000	640	1,500	1,900	ND	---	4.0
10/15/97		46.74	4.37	24,000	2,600 [8]	---	2.1	8,300	160	560	770	ND <500	---	4.0
1/20/98		47.66	3.45	17	4,500 [8]	---	1.4	5,200	350	730	1,500	ND	---	3.0
4/15/98		48.91	2.20	110,000	2,900	---	36	42,000	ND	1,800	ND	ND	---	---
4/15/98 (D)		duplicate sample		110,000	2,500	---	---	36,000	2,500	1,700	3,400	ND	---	---
7/28/98		46.16	4.95	72,000	4,900 [8]	---	ND <5.0	23,000	830	1,700	2,200	ND <2.5	---	---
1/26/00		49.17	1.94	12,000	410	ND<500	---	3,300	60	ND<5.0	52	ND<100	---	---
5/3/00		47.50	3.61	32,000	ND<50	ND<170	---	17,000	380	610	880	ND<300	---	---
5/3/00		duplicate sample		31,000	---	---	---	17,000	360	560	800	ND<150	---	---
8/3/00		44.14	6.97	60,000	ND<50	ND<170	---	44,000	390	1200	417	ND<600	---	0.8
10/11/00		43.83	7.28	84,000	ND<50	ND<170	---	52,000	300	1,300	130	ND<100	---	0.8
1/4/2001		46.94	4.17	85,000	270	ND<170	---	45,000	180	1,000	ND<100	ND<100	---	---
4/12/01		48.37	2.74	15,000	180 *w/ silica gel cleanup*	ND<170	---	7,100	88	350	358	ND<20	---	0.6
7/10/01		44.61	6.50	52,000	300	ND<170	---	41,000	250	1,100	318	ND<20	ND<20-400	0.6
11/1/01		44.87	6.24	48,000	220	ND<170	---	50,000	190	700	321	ND<50	ND<20-400	---
12/10/01		49.51	1.60	19,000	100	ND<170	---	7,900	62	150	138	ND<5.0	**COD - 160000**	0.2
3/28/02		48.33	2.78	20,000	180	ND<170	---	6,300	42	82	64	ND<50	ND<50-1000	0.9
6/27/02		46.22	4.89	19,000	480	ND<170	---	10,000	140	410	504	ND<4.0	ND<1-20	0.48
9/11/02		43.01	8.10	91,000	200	ND<170	---	45,000	190	750	184	ND<50	ND<50-1000	---
12/6/02		Well destroyed												
MW-13	50.19													
5/20/97		44.09	6.10	38,000	3,400	---	ND	8,900	2,600	1,200	2,000	ND	---	---
7/29/97		45.19	5.00	37,000	3,200	---	---	7,400	1,700	1,300	1,400	ND	---	4.0
10/15/97		43.59	6.60	27,000	2,700 [8]	---	3.8	7,600	1,300	1,300	1,000	ND <500	---	3.0
1/20/98		46.79	3.40	25,000	2,200 [8]	---	2.3	6,000	2,400	1,200	910	ND	---	2.0
4/15/98		44.54	5.65	26,000	2,400	---	8.6	5,200	2,500	1,100	1,400	ND	---	3.4
7/28/98		42.59	7.60	18,000	2,200 [8]	---	ND <5.0	3,800	1,200	870	720	ND <2.5	---	3.0
1/26/00		Well Not Found												
5/3/00		43.95	6.24	2,800	ND<50	ND<170	---	440	210	180	234	ND<100	---	---
8/3/00		40.31	9.88	14,000	ND<50	ND<170	---	1,800	560	770	580	ND<350	---	0.8
10/11/00		39.69	10.50	13,000	ND<50	ND<170	---	1,900	290	760	356	14	---	1.2

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-13 Continued														
1/4/2001		42.82	7.37	**7,500**	**230**	ND<170	---	**620**	**350**	**320**	**294**	**4.7**	---	---
4/12/01		44.50	5.69	**210**	ND<50	ND<170	---	**34**	**2.7**	**3.8**	**7.58**	ND<0.50	---	1.3
7/10/01		40.27	9.92	**6,100**	**150**	ND<170	---	**580**	**230**	**300**	**281**	ND<10	ND<10-200	1.0
11/1/01		40.44	9.75	**3,100**	**77**	ND<170	---	**610**	**52**	**120**	**68**	ND<20	ND<1-60	---
12/10/01		46.61	3.58	ND<50	ND<50	ND<170	---	**0.93**	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	---
3/28/02		45.46	4.73	ND<50	ND<50	ND<170	---	**2.2**	ND<0.50	**0.51**	**0.75**	**1.4**	ND<1-20	1.0
6/27/02		41.52	8.67	**520**	ND<50	ND<170	---	**50**	**15**	**35**	**22.7**	ND<1.0	ND<1-20	0.66
9/11/02		38.64	11.55	**2,800**	**100**	ND<170	---	**320**	**49**	**180**	**71.1**	**2.2**	ND<1-20	2.22
12/9/02		Well destroyed												
MW-14	47.89													
1/26/00		38.00	9.89	ND<50	ND<50	ND<500	---	1.1	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
5/3/00		36.27	11.62	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
8/3/00		33.44	14.45					----- Insufficient amount of water to sample -----						
10/11/00		33.30	14.59					----- Insufficient amount of water to sample -----						
1/4/2001		33.55	14.34					----- Insufficient amount of water to sample -----						
4/12/01		36.01	11.88	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	1.3
7/10/01		33.32	14.57					----- Insufficient amount of water to sample -----						
11/1/01	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
12/10/01		33.34	14.55					----- Insufficient amount of water to sample -----						
3/28/02		39.02	8.87	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	1.01
6/27/02		33.32	14.57					----- Insufficient amount of water to sample -----						
9/11/02		33.27	14.62					----- Insufficient amount of water to sample -----						
3/27/03		42.11	5.78	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	3.4
9/23/03		33.29	14.60	---	---	---	---	---	---	---	---	---	---	---
3/23/04		37.28	10.61	ND<50	ND<50	ND<170	---	ND<0.50	**0.68**	ND<0.50	ND<0.50	ND<1.0	ND<1-10	---
9/22/04	----- monitoring well can not be located -----			---	---	---	---	---	---	---	---	---	---	---
3/30/05		41.79	6.10	---	---	---	---	---	---	---	---	---	---	---
4/26/05		37.61	10.28	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
MW-15	49.28													
1/26/00		42.26	7.02	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
5/3/00		39.12	10.16	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
8/3/00		35.74	13.54	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
10/11/00	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
1/4/2001		35.03	14.25					----- Insufficient amount of water to sample -----						
4/12/01		40.42	8.86	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	1.2
7/10/01		35.58	13.70					----- Insufficient amount of water to sample -----						
11/1/01	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
12/10/01		42.99	6.29	ND<50	ND<50	**270**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	1.8
3/28/02		41.43	7.85	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	1.62
6/27/02		36.76	12.52					----- Insufficient amount of water to sample -----						3.1
9/11/02		34.83	14.45					----- Insufficient amount of water to sample -----						
1/31/03		---	---	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	4.6
3/26/03		46.68	2.60	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	3.8
6/19/03		37.88	11.40	ND<50	---	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	4.2
9/24/03		35.18	14.10					----- Well not sampled -----						

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-15 Continued														
12/18/03		42.47	6.81	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	na
3/23/04		40.55	8.73	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	---
6/29/04		35.58	13.70					----- Insufficient amount of water to sample -----						
9/23/04		---	---					----- Insufficient amount of water to sample -----						
12/14/04		---	---	---	---	---	---	---	---	---	---	---	---	---
MW-16	48.88													
1/26/00		41.51	7.37	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
5/3/00		36.77	12.11	ND<50	ND<50	ND<170	---	**3**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
8/3/00		34.47	14.41					----- Insufficient amount of water to sample -----						
10/11/00		34.43	14.45					----- Insufficient amount of water to sample -----						
1/4/2001		34.61	14.27					----- Insufficient amount of water to sample -----						
4/12/01		38.33	10.55	ND<50	ND<50	ND<170	---	**6**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	1.1
7/10/01		34.39	14.49					----- Insufficient amount of water to sample -----						
11/1/01		34.39	14.49					----- Insufficient amount of water to sample -----						
12/10/01		41.86	7.02	ND<50	ND<50	**340**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
3/28/02		40.48	8.40	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	0.80
6/27/02		34.33	14.55					----- Insufficient amount of water to sample -----						
9/11/02		34.26	14.62					----- Insufficient amount of water to sample -----						
1/31/03		42.93	5.95	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	2.6
3/27/03		43.20	5.68	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	2.55
6/19/03		35.73	13.15	ND<50	---	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	4.4
9/24/03		34.29	14.59					----- Well not sampled -----						
12/18/03		41.40	7.48	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	na
3/23/04		38.01	10.87	**95**	ND<50	ND<170	---	**0.77**	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	---
6/29/04		---	---					----- Insufficient amount of water to sample -----						
9/23/04		34.38	14.50					----- Insufficient amount of water to sample -----						
12/14/04		37.43	11.45	**93**	ND<50	---	---	**8.3**	**1.1**	**0.52**	**0.73**	ND<7.0	**Iron = 270**	---
MW-17S	30.92													
10/1/01	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
11/1/01	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
12/10/01		27.84	3.08	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	4.7
3/28/02		27.94	2.98	ND<50	ND<50	**720**	---	ND<0.50	ND<0.50	ND<0.50	**0.50**	ND<1.0	ND<1-20	2.49
6/27/02		18.23	12.69	---	---	---		----- Insufficient amount of water to sample -----				---	---	---
9/11/02	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
3/27/03		28.25	2.67	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-20	4.6
9/23/03	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
12/18/03														
3/23/04		27.18	3.74	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	---
9/22/04	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
4/26/05		27.45	3.47	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-17D	30.82													
10/1/01		14.38	16.44	ND<50	**120**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	---
11/1/01		14.42	16.40	ND<50	ND<50	**820**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	---
12/10/01		23.09	7.73	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	6.4
3/28/02		21.79	9.03	ND<50	ND<50	**1,800**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.18
6/27/02		16.62	14.20	ND<50	ND<50	**310**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	9.9
9/11/02		14.45	16.37	ND<50	ND<50	**360**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	3.46
3/27/03		23.25	7.57	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	4.7
9/23/03		15.32	15.50	ND<50	ND<50	**1,400**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	1.48
3/23/04		21.26	9.56	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	---
9/22/04		14.85	15.97	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
3/30/05		23.34	7.48	---	---	---	---	---	---	---	---	---	---	---
4/26/05		22.49	8.33	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
MW-18	30.82													
10/1/01		14.31	16.51	**110**	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**DIPE = 270**	---
11/1/01		12.93	17.89	**130**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**DIPE = 340**	---
12/10/01		-------Standing water-------					-------Standing water-------							
3/28/02		26.22	4.6	**140**	ND<50	**360**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**DIPE = 190**	0.84
6/27/02		16.04	14.78	**110**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**DIPE = 200**	2.6
9/11/02		13.57	17.25	**120**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**DIPE = 230**	3.41
3/27/03		-------Standing water-------					-------Standing water-------							
9/23/03		13.98	16.84	**140**	ND<50	**230**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**DIPE = 160** All others ND<1.0-20	---
3/23/04		26.10	4.72	**66**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**DIPE = 99** All others ND<1.0-10	---
9/22/04		13.64	17.18	**310**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
3/30/05		Well inaccessible							Well inaccessible					
4/26/05		Well inaccessible							Well inaccessible					
MW-19	31.56													
10/1/01		13.23	18.33	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	---
11/1/01		13.50	18.06	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	---
12/10/01		10.24	21.32	ND<50	ND<50	**660**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	1.5
3/28/02		18.07	13.49	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.53
6/27/02		13.62	17.94	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	5.9
9/11/02		13.21	18.35	ND<50	ND<50	**210**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.97
1/31/03		28.16	3.40	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	6.7
3/27/03		29.59	1.97	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	4.71
6/19/03		15.70	15.86	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	8.3
9/24/03		13.59	17.97	**79**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	---
12/18/03		19.23	12.33	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	na
3/23/04		17.31	14.25	**140**	ND<50	**190**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	---
6/30/04		13.82	17.74	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-10	---
9/23/04		13.19	18.37	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
12/14/04		22.33	9.23	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	**Iron = 200**	---

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Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-20	30.69													
10/1/01		13.46	17.23	ND<50	ND<50	**690**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**2.7**	ND<1.0-20	---
11/1/01		13.25	17.44	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**3.0**	ND<1.0-20	---
12/10/01		24.72	5.97	ND<50	ND<50	**510**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2
3/28/02		26.47	4.22	ND<50	ND<50	**380**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	1.73
6/27/02		15.41	15.28	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.8
9/11/02		---	---	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**2.8**	ND<1.0-20	4.61
1/31/03		26.19	4.50	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	3.5
3/27/03		27.61	3.08	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.25
6/19/03		17.12	13.57	ND<50	ND<50	**210**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.2**	ND<1.0-20	4.1
9/24/03		13.76	16.93	ND<50	ND<50	ND<170		ND<0.50	ND<0.50	ND<0.50	ND<0.50	**3.7**	ND<1.0-20	---
12/18/03		25.65	5.04	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	na
3/23/04		20.42	10.27	**320**	ND<50	**180**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	---
6/30/04		14.94	15.75	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.1**	ND<1-10	---
9/23/04		13.15	17.54	ND<50	**180**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.6**	---	---
12/14/04		16.23	14.46	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	**Iron = 6600**	---
MW-21	50.99													
3/28/02		50.99	5.97	**1,200**	**190**	ND<170	---	**11**	ND<0.50	**1.0**	**0.80**	ND<1.0	ND<1-20	0.94
6/27/02		45.02	8.79	**840**	**170**	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.14
9/11/02	----- Insufficient amount of water to sample -----				---	---	---	---	---	---	---	---	---	---
3/27/03		46.52	4.47	**230**	**91**	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	3.27
9/23/03		41.11	9.88	**190**	**150**	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	---
3/23/04		44.04	6.95	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	---
9/22/04	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
4/26/05		44.30	6.69	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.4
MW-22	50.52													
3/28/02		---	---	ND<50	*	*	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	1.59
6/27/02		41.73	8.79	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.64
9/11/02		---	---	---	---	---	---	---	---	---	---	---	---	---
3/27/03		---	---	---	---	---	---	---	---	---	---	---	---	---
9/23/03		---	---	---	---	---	---	---	---	---	---	---	---	---
3/23/04	----- monitoring well can not be located -----													---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-23	53.98													
1/31/03		50.42	3.56	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**35**	**TAME=18** All others ND	3.32
3/25/03		49.66	4.32	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**36**	**TAME=16** All others ND	2.90
6/19/03	----- Insufficient amount of water to sample -----				---	---	---	---	---	---	---	---	---	---
9/24/03		44.71	9.27	**97**	ND<50	ND<170	---	ND<0.50	**1.1**	ND<0.50	0.66	ND<8.0	**TAME=1.6** All others ND	---
12/18/03		49.68	4.30	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.6**	ND<1.0-20	0.82
3/23/04		48.03	5.95	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	0.39
6/29/04		46.63	7.35	**77**	ND<50	ND<170	---	**0.54**	**1.9**	**0.81**	**1.2**	ND<1.0	ND<1-10	0.68
9/23/04		44.18	9.80					----- Insufficient amount of water to sample -----						
12/14/04		48.56	5.42	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	ND<100	---
MW-24	54.40													
1/31/03		50.83	3.57	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**3.7**	ND<1.0-20	2.55
3/25/03		51.03	3.37	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**8.8**	ND<1.0-20	2.87
6/19/03		47.84	6.56	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.8**	ND<1.0-20	4.2
9/24/03		45.19	9.21	ND<50	ND<50	ND<170	---	ND<0.50	**7.0**	ND<0.50	ND<0.50	**1.8**	ND<1.0-20	---
12/18/03		50.76	3.64	ND<50	ND<50	ND<170	---	**4.5**	ND<0.50	ND<0.50	ND<0.50	**10.0**	ND<1.0-20	
3/23/04		48.93	5.47	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	0.61
6/29/04		48.61	5.79	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	0.78
9/23/04		44.93	9.47	ND<50	ND<170	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
12/14/04		48.82	5.58	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	ND<100	---
MW-25	55.91													
1/31/03		53.93	1.98	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.82
3/25/03		54.48	1.43	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.5
6/19/03		52.16	3.75	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	1.38
9/24/03		49.20	6.71	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	0.15
12/18/03		54.25	1.66	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	0.64
3/23/04		53.20	2.71	**120**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	0.24
6/29/04		50.80	5.11	**69**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	0.70
9/23/04		47.39	8.52	**56**	ND<50	---	---	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<3.0	---	0.59
12/14/04		53.27	2.64	**470**	ND<50	---	---	**5.3**	**6.2**	ND<0.50	ND<0.50	ND<12	**Iron = 15,000**	0.37
MW-26	54.74													
1/31/03		50.51	4.23	ND<50	ND<50	ND<170	---	**0.98**	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**TBA=30** All others ND	4.68
2/10/03		50.90	3.84	ND<50	ND<50	ND<170	---	**12**	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.5
3/27/03		53.26	1.48	ND<50	**51**	ND<170	---	**5.4**	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	3.24
9/23/03		45.43	9.31	**690**	---	---	---	**2.1**	**0.53**	**0.54**	ND<0.50	ND<1.0	ND<1.0-20	---
3/23/04		49.49	5.25	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	0.59
9/22/04		45.48	9.26	ND<50	**420**	**920**	---	**1.3**	**0.65**	ND<0.50	ND<0.50	ND<3.0	---	---
4/26/05		49.83	4.91	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.59

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-27	54.30													
1/31/03		49.83	4.47	4,400	150	ND<170	---	900	10	0.61	29.3	ND<10	TBA=22 All others ND	3.59
3/26/03		52.87	1.43	3,800	160	ND<170	---	1,100	8.2	25	14.2	ND<10	ND<1.0-20	2.85
6/19/03		48.98	5.32	12,000	280	ND<170	---	3,800	28	87	38.7	ND<10	TBA=25 All others ND	1.41
9/24/03		48.11	6.19	11,000	270	ND<170	---	4,700	26	72	26.8	ND<10	ND<1.0-20	0.40
12/18/03		50.38	3.92	4,600	130	ND<170	---	3,100	15	42	12.9	ND<10	ND<1.0-20	0.64
3/23/04		50.38	3.92	6,800	160	ND<170	---	2,300	12	19	10.6	ND<12	ND<1.0-35	0.97
6/29/04		48.80	5.50	5,800	270	ND<170	---	2,600	18	32	16.8	ND<8.0	ND<1.0-30	0.41
7/20/04		48.07	6.23	2,700	ND<50	---	---	810	17	12	ND<5.0	ND<3.0	---	0.57
8/24/04		47.40	6.90	3,700	110	---	---	960	17	24	7.2	ND<30	---	1.38
9/23/04		46.47	7.83	2,000	130	---	---	280	15	11	6.0	ND<40	F-Hyde = 14 A-Hyde = 11 Cr = ND<10	2.15
10/21/04		48.43	5.87	1,100	89	---	---	170	8.2	16	ND<6.0	10	---	0.90
11/16/04		49.34	4.96	1,100	120	---	---	150	ND<14	8.7	5.1	ND<25	---	0.55
12/14/04		49.03	5.27	1,100	100	---	---	170	8.2	14	3.2	ND<20	Iron = 14,000	0.45
1/15/05		48.52	5.78	1,300	98	---	---	310	7.6	9.9	ND<6.0	ND<25	16,000	0.40
2/17/05		49.65	4.65	990	91	---	---	60	ND<10	7.4	ND<5.0	ND<20	---	0.48
3/30/05		49.95	4.35	1,300	80	---	---	300	7.9	6.8	3.5	ND<30	---	0.49
MW-28	54.61													
1/31/03		47.31	7.30	10,000	120	ND<170	---	4,800	14	30	61.9	ND<10	ND<1.0-20	4.16
3/26/03		53.04	1.57	13,000	470	ND<170	---	6,100	24	10	81.8	ND<10	ND<1.0-20	2.81
6/19/03		49.80	4.81	13,000	520	ND<170	---	9,700	29	56	45.5	6.8	TBA=24 All others ND	1.62
9/24/03		47.68	6.93	23,000	250	ND<170	---	11,000	33	49	41.6	ND<12	ND<1.0-20	0.45
12/18/03		52.13	2.48	21,000	470	ND<170	---	8,900	60	170	98.0	ND<6	ND<1.0-20	---
3/23/04		50.54	4.07	18,000	150	ND<170	---	9,600	27	15	24	ND<16	ND<1.0-45	0.49
6/29/04		49.36	5.25	15,000	210	ND<170	---	7,600	48	61	46.2	ND<7.0	ND<1.0-20	0.43
7/20/04		48.16	6.45	10,000	76	---	---	4,800	28	31	15	ND<30	---	0.63
8/24/04		46.88	7.73	15,000	180	---	---	6,100	43	46	21	ND<100	---	1.67
9/23/04		45.87	8.74	9,400	82	---	---	4,700	34	40	18	ND<80	F-Hyde = 11 A-Hyde = ND<5.0 Cr = ND<10	---
10/21/04		49.43	5.18	130	ND<50	---	---	53	ND<0.50	0.90	0.61	ND<3.0	---	1.45
11/16/04		50.54	4.07	980	71	---	---	500	3.6	4.4	3.2	ND<13	---	0.70
12/14/04		51.71	2.90	1,000	70	---	---	350	5.1	7.0	3.8	ND<20	Iron = 3,200	0.45
1/11/05		53.05	1.56	760	84	---	---	150	4.9	7.6	3.3	ND<20	Iron = 2,900	0.39
2/15/05		52.45	2.16	640	75	---	---	94	3.3	6.2	2.4	ND<15	---	0.46
3/30/05		51.39	3.22	780	81	---	---	100	4.2	8.5	1.7	ND<20	---	0.51

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Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-29	55.84													
1/31/03		54.84	1.00	130	130	ND<170	---	18	1.0	4.1	3.65	ND<1.0	ND<1.0-20	2.8
3/25/03		54.70	1.14	90	ND<50	ND<170	---	4.8	ND<0.50	6.2	1.4	ND<1.0	ND<1.0-20	3.89
6/19/03		52.32	3.52	130	59	ND<170	---	8.2	ND<0.50	6.9	ND<0.50	ND<1.0	ND<1.0-20	4.7
9/24/03		49.25	6.59	2,400	140	ND<170	---	840	25	120	14.2	ND<1.0	ND<1.0-20	0.54
12/18/03		54.32	1.52	400	ND<50	ND<170	---	110	3.4	15	5.1	ND<1.0	ND<1.0-20	0.47
3/23/04		53.39	2.45	63	ND<50	ND<170	---	2.4	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	0.16
6/29/04		51.09	4.75	230	ND<50	ND<170	---	80	1.4	3.4	0.79	ND<3.0	---	1.59
9/23/04		48.60	7.24	3,400	84	---	---	1,900	29	16	20	ND<35	---	0.51
12/14/04		53.03	2.81	ND<49	ND<50	---	---	0.69	ND<0.50	ND<0.50	ND<0.50	ND<30	ND<100	4.05
MW-30	55.09													
1/31/03		50.99	4.10	48,000	570	ND<170	---	13,000	210	2,000	1,810	ND<1.0	ND<1.0-20	2.6
3/26/03		54.77	0.32	33,000	430	ND<170	---	13,000	150	1,200	714	ND<50	ND<50-1,000	2.69
6/19/03		51.68	3.41	29,000	710	ND<170	---	12,000	150	1,300	753	ND<4.0	ND<1.0-20	2.2
9/24/03		48.08	7.01	34,000	550	ND<170	---	14,000	150	540	416	ND<50	ND<50-1,000	1.14
12/18/03		53.56	1.53	39,000	220	ND<170	---	16,000	140	790	523	ND<50	ND<50-1,000	0.52
3/23/04		52.68	2.41	23,000	170	ND<170	---	7,600	110	830	409	ND<4.0	ND<1-10	0.22
6/29/04		50.47	4.62	29,000	860	ND<170	---	10,000	250	880	507	ND<360	---	0.79
7/20/04		49.32	5.77	31,000	280	---	---	9,400	230	840	437	ND<300	---	0.57
8/24/04		47.62	7.47	33,000	310	---	---	10,000	190	630	273	ND<300	---	1.30
9/23/04		46.60	8.49	20,000	370	---	---	6,200	150	470	576	ND<300	**F-Hyde = 59** **A-Hyde = 32** Cr = ND<10	---
10/21/04		50.57	4.52	31,000	590	---	---	9,100	300	1,400	870	ND<300	---	0.32
11/16/04		51.04	4.05	30,000	740	---	---	9,200	320	2,000	930	ND<300	---	0.58
12/14/04		52.41	2.68	26,000	840	---	---	7,300	270	1,300	810	ND<300	**Iron = 21,000**	---
1/11/05		54.36	0.73	25,000	600	---	---	8,100	310	1,200	920	ND<300	**Iron = 17,000**	0.22
2/15/05		53.84	1.25	22,000	770	---	---	6,100	200	890	670	ND<300	---	0.41
3/30/05		54.52	0.57	18,000	580	---	---	5,600	180	800	590	ND<300	---	0.43
MW-31	54.61													
1/31/03		49.96	4.65	3,800	650	300	---	1,000	9.0	2.3	3.9	ND<1.0	ND<1.0-20	5.05
3/27/03		52.21	2.40	3,200	1,100	500	---	910	9.7	3.2	3.33	ND<1.0	ND<1.0-20	3.75
9/23/03		44.78	9.83	7,900	270	ND<170	---	800	9.4	3.3	5.5	ND<1.0	ND<1.0-20	0.0
3/23/04		49.27	5.34	2,700	210	ND<170	---	840	6.7	ND<0.50	4.5	ND<1.0	ND<1-10	0.55
9/22/04		42.89	11.72	3,200	190	ND<170	---	940	24	6.9	7.5	ND<30	---	0.30
3/30/05		52.49	2.12	1,100	82	ND<170	---	240	ND<20	ND<5.0	ND<5.0	ND<8.0	---	0.44
4/26/05		49.65	4.96	1,000	83	---	---	270	7.9	ND<5.0	ND<5.0	ND<7.0	---	0.49
MW-32	54.63													
1/31/03		47.67	6.96	4,800	91	ND<170	---	1,500	12	1.6	5.2	ND<1.0	ND<1.0-20	4.38
3/27/03		52.21	2.42	2,900	110	ND<170	---	930	9.3	1.0	2.8	ND<1.0	ND<1.0-20	2.74
9/23/03		44.78	9.85	3,500	120	180	---	620	7.0	2.4	3.46	ND<1.0	ND<1.0-20	0.00
3/23/04		49.26	5.37	1,100	53	ND<170	---	430	2.3	0.70	0.51	ND<1.0	ND<1.0-20	0.78
9/22/04		41.95	12.68	1,400	72	ND<170	---	450	ND<15	4.0	ND<12.5	ND<10	---	0.30
3/30/05		52.14	2.49	2,000	160	ND<170	---	680	13.0	ND<10	ND<15.0	ND<20	---	0.32
4/26/05		50.34	4.29	2,400	150	---	---	630	15	ND<12	ND<12	ND<20	---	0.57

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-33	55.79													
1/31/03		51.24	4.55	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	5.0
3/25/03		54.39	1.40	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	2.99
6/19/03		52.16	3.63	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	0.00
9/24/03		49.20	6.59	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	0.00
12/18/03		54.24	1.55	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	---
3/23/04		53.21	2.58	**88**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1-10	0.21
6/29/04		50.78	5.01	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	0.63
9/23/04		47.36	8.43	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.26
12/14/04		53.46	2.33	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	**Iron = 1,300**	0.41
MW-34	54.07													
1/31/03		49.07	5.00	**15,000**	**120**	ND<170	---	**690**	**970**	**110**	**1,090**	ND<25	**TAME=22** All others ND	4.3
3/25/03		49.02	5.05	**14,000**	**190**	ND<170	---	**380**	**580**	**440**	**730**	ND<40	**TAME=10** All others ND	3.41
6/19/03		46.17	7.90	**4,500**	**320**	ND<170	---	**300**	**200**	**260**	**242**	ND<40	**TAME=9.1** All others ND	3.6
9/24/03		42.40	11.67	**8,200**	**360**	ND<170	---	**450**	**76**	**360**	**197**	ND<16	**TAME=2.5** All others ND	1.08
12/18/03		48.56	5.51	**9,100**	**200**	ND<170	---	**400**	**320**	**380**	**350**	ND<10	**TAME=1.7** All others ND	0.62
3/23/04		47.18	6.89	**9,100**	**240**	ND<170	---	**460**	**230**	**400**	**295**	ND<12	**TAME=1.7** All others ND<1.0-10	0.92
6/29/04		46.62	7.45	**11,000**	**530**	ND<170	---	**540**	**200**	**640**	**505**	ND<300	---	0.56
7/20/04		43.54	10.53	**9,100**	**230**	---	---	**490**	**120**	**380**	**220**	ND<300	---	0.57
8/24/04		42.35	11.72	**11,000**	**320**	---	---	**490**	**84**	**390**	**248**	ND<400	---	1.97
9/23/04		41.79	12.28	**7,700**	**250**	---	---	**390**	**63**	**200**	**118**	ND<350	**F-Hyde = 10** **A-Hyde = 8.5** Cr = ND<10	0.96
10/21/04		46.53	7.54	**8,200**	**260**	---	---	**260**	**99**	**160**	**410**	ND<300	---	0.59
11/16/04		47.82	6.25	**8,500**	**340**	---	---	**250**	**110**	**170**	**438**	ND<300	---	0.48
12/14/04		47.58	6.49	**4,100**	**260**	---	---	**160**	**73**	**130**	**200**	ND<170	**Iron = 3,500**	---
1/11/05		51.26	2.81	**5,300**	**380**	---	---	**170**	**69**	**130**	**295**	ND<180	**Iron = 3,900**	0.39
2/15/05		48.61	5.46	**3,400**	**310**	---	---	**120**	**39**	**120**	**167**	ND<100	---	0.37
3/30/05		51.43	2.64	**5,500**	**190**	---	---	**95**	**58**	**120**	**255**	ND<180	---	0.54
MW-35	54.46													
1/31/03		50.01	4.45	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**13**	**TAME=2.1** All others ND	4.6
3/25/03		50.48	3.98	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**10**	**TAME=1.5** All others ND	2.71
6/19/03		47.64	6.82	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**15**	**TAME=2.1** All others ND	3.6
9/24/03		44.19	10.27	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**13**	**TAME=2.1** All others ND	0.00
12/18/03		50.39	4.07	ND<50	ND<50	ND<170	---	**1.2**	ND<0.50	ND<0.50	ND<0.50	**11**	**TAME=1.9** All others ND	---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-35 Continued														
3/23/04		48.68	5.78	**84**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**14**	**TAME=2.1** All others ND<1.0-10	0.19
6/29/04		48.28	6.18	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**12**	---	0.54
9/23/04		43.52	10.94	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**12**	---	0.32
12/14/04		49.21	5.25	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**11**	**Iron = 3,600**	---
MW-36	54.50													
1/31/03		40.25	14.25	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**9.8**	**TAME=1.9** All others ND	3.71
3/25/03		50.95	3.55	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.9**	ND<1.0-20	2.28
6/19/03		47.58	6.92	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**9.5**	ND<1.0-20	0.56
9/24/03		44.19	10.31	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**9.5**	**TAME=1.6** All others ND	0.00
12/18/03		50.43	4.07	ND<50	ND<50	ND<170	---	**2.3**	ND<0.50	ND<0.50	ND<0.50	**5.2**	ND<1.0-20	---
3/23/04		48.76	5.74	**86**	ND<50	ND<170	---	**0.89**	ND<0.50	**0.53**	ND<0.50	**7.0**	ND<1-10	0.58
6/29/04		48.21	6.29	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**6.0**	---	0.68
9/23/04		43.01	11.49	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**11**	---	0.31
12/14/04		49.11	5.39	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**7.7**	**Iron = 1,300**	---
MW-37	55.85													
1/31/03		44.57	11.28	**1,100**	**51**	ND<170	---	**74**	**3.3**	**18**	**39.8**	ND<1.0	ND<1.0-20	5.56
3/25/03		53.48	2.37	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**1.6**	ND<1.0-20	2.78
6/19/03		51.90	3.95	--- No Sample Collected ---										---
9/24/03		48.72	7.13	**420**	ND<50	ND<170	---	**11**	**0.53**	**4.8**	**1.8**	ND<6.0	ND<1.0-20	0.33
12/18/03		53.71	2.14	**92**	ND<50	ND<170	---	**2.9**	ND<0.50	**0.89**	**0.80**	**3.4**	ND<1.0-20	0.80
3/23/04		52.97	2.88	**120**	ND<50	**180**	---	**2.8**	ND<0.50	**0.98**	**0.63**	**4.3**	ND<1-10	0.46
6/29/04		51.40	4.45	ND<50	ND<50	ND<170	---	**3.4**	ND<0.50	ND<0.50	ND<0.50	ND<13	---	0.58
9/23/04		46.68	9.17	ND<50	ND<50	---	---	**1.5**	ND<0.50	ND<0.50	ND<0.50	ND<10	---	0.16
12/14/04		53.70	2.15	ND<50	ND<50	---	---	**0.88**	ND<0.50	ND<0.50	ND<0.50	**5.1**	ND<100	0.45
MW-38	55.81													
1/31/03		53.99	1.82	**7,100**	**280**	ND<170	---	**2,100**	**41**	**180**	**134**	ND<1.0	ND<1.0-20	3.40
3/25/03		54.10	1.71	**1,300**	**79**	ND<170	---	**99**	ND<2.5	ND<2.5	**25.5**	ND<20	ND<5.0-100	2.25
6/19/03		51.82	3.99	**3,000**	**160**	ND<170	---	**1,300**	**16**	**37**	**39.4**	**12**	**TBA=32** All others ND	3.8
9/24/03		48.56	7.25	**680**	**62**	ND<170	---	**130**	**2.1**	**7.0**	**3.52**	**11**	ND<1.0-20	0.31
12/18/03		53.81	2.00	**980**	ND<50	ND<170	---	**330**	**6.5**	**28.0**	**12.10**	**11**	ND<1.0-20	---
3/23/04		52.86	2.95	**640**	ND<50	ND<170	---	**150**	**2.7**	**9.9**	**5.1**	**12**	ND<1.0-26	0.40
6/29/04		50.67	5.14	**140**	ND<50	ND<170	---	**21**	ND<1.8	**0.70**	**0.70**	**14**	---	0.89
7/20/04		49.48	6.33	**270**	**56**	---	---	**40**	ND<3.0	**1.4**	**0.74**	**14**	---	0.64
8/24/04		47.90	7.91	**94**	ND<50	---	---	**10**	ND<1.0	**0.66**	**0.50**	**11**	---	3.28
9/23/04		46.55	9.26	ND<50	ND<50	---	---	**1.6**	ND<0.50	ND<0.50	ND<0.50	**10**	F-Hyde = ND<5.0 A-Hyde = ND<5.0 Cr = ND<10	0.85

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-38 Continued														
10/21/04		49.19	6.62	83	ND<50	---	---	11	ND<1.0	ND<0.50	0.50	12	---	0.55
11/16/04		50.68	5.13	82	ND<50	---	---	12	0.60	ND<0.50	0.58	11	---	2.87
12/14/04		52.54	3.27	72	ND<50	---	---	13	0.54	ND<0.50	ND<0.50	11	Iron = 150	2.78
1/11/05		54.52	1.29	270	ND<50	---	---	80	2.3	2.1	1.5	17	Iron = 210	1.12
2/15/05		53.97	1.84	250	ND<50	---	---	47	2.1	2.0	2.0	12	---	0.38
3/30/05		54.65	1.16	200	ND<50	---	---	28	1.5	1.3	1.2	14	---	0.66
MW-39	55.24													
1/31/03		41.37	13.87	Did not sample, bailer dropped into well										4.79
2/10/03		44.34	10.90	760	53	ND<170	---	40	0.53	2.9	38.7	17	ND<1.0-20	3.5
3/26/03		50.08	5.16	350	ND<50	ND<170	---	21	ND<0.50	ND<0.50	9.8	12	ND<1.0-20	4.08
6/19/03		51.24	4.00	1,600	ND<50	ND<170	---	22	ND<0.50	1.8	ND<0.50	16	ND<1.0-20	---
9/24/03		47.37	7.87	890	ND<50	ND<170	---	9.3	ND<0.50	1.7	0.72	12	ND<1.0-20	0.52
12/18/03		53.21	2.03	140	ND<50	310	---	17.0	ND<0.50	1.4	0.88	13	ND<1.0-20	0.57
3/23/04		52.20	3.04	170	ND<50	170	---	4.7	ND<0.50	0.95	0.56	18	ND<1-10	0.85
6/29/04		50.14	5.10	57	ND<50	ND<170	---	7.9	ND<0.50	1.5	0.88	17	---	0.29
9/23/04		46.56	8.68	ND<50	ND<50	---	---	4.3	ND<0.50	0.83	0.62	14	---	0.14
12/14/04		51.39	3.85	ND<50	ND<50	---	---	1.6	ND<0.50	0.51	ND<0.50	13	Iron = 10,000	0.51
MW-40	55.17													
1/31/03		43.75	11.42	120	92	ND<170	---	1.4	ND<0.50	ND<0.50	ND<0.50	21	ND<1.0-20	4.51
3/26/03		53.59	1.58	ND<50	77	ND<170	---	7.8	ND<0.50	0.71	ND<0.50	16	ND<1.0-20	3.69
6/19/03		51.36	3.81	720	ND<50	ND<170	---	110	ND<0.50	2.3	0.63	27	ND<1.0-20	---
9/24/03		47.73	7.44	170	ND<50	ND<170	---	60	ND<0.50	ND<0.50	ND<0.50	20	ND<1.0-20	0.25
12/18/03		52.45	2.72	150	ND<50	ND<170	---	34	ND<0.50	1.4	1.0	15	ND<1.0-20	0.83
3/23/04		52.35	2.82	120	ND<50	ND<170	---	6.8	ND<0.50	ND<0.50	ND<0.50	20	ND<1.0-46	0.84
6/29/04		48.77	6.40	74	ND<50	ND<170	---	17	ND<0.50	1.4	ND<3.7	19	---	0.31
9/23/04		46.27	8.90	ND<50	ND<50	---	---	8.3	ND<0.50	ND<0.50	ND<0.50	14	---	1.10
12/14/04		50.95	4.22	ND<50	ND<50	---	---	0.76	ND<0.50	ND<0.50	ND<0.50	11	Iron = 16,000	---
MW-41	54.38													
2/10/03		50.98	3.40	ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.8	ND<1.0-20	3.2
3/26/03		53.08	1.30	ND<50	ND<50	ND<170	---	2.2	ND<0.50	ND<0.50	ND<0.50	4.7	ND<1.0-20	3.51
6/19/03		49.80	4.58	120	ND<50	ND<170	---	38	ND<0.50	ND<0.50	ND<0.50	10	TBA=22 All others ND	4.48
9/24/03		46.82	7.56	720	ND<50	220	---	5.6	ND<0.50	ND<0.50	ND<0.50	5.2	ND<1.0-20	0.28
12/18/03		51.87	2.51	600	ND<50	ND<170	---	4.5	ND<0.50	ND<0.50	ND<0.50	4.3	ND<1.0-20	0.59
3/23/04		50.46	3.92	230	ND<50	ND<170	---	8.0	ND<0.50	ND<0.50	ND<0.50	6.8	ND<1-10	0.80
6/29/04		49.57	4.81	ND<50	ND<50	ND<170	---	6.8	ND<0.50	ND<0.50	ND<1.4	8.2	---	0.50
9/23/04		45.79	8.59	ND<50	ND<50	---	---	3.7	ND<0.50	ND<0.50	ND<2.0	ND<10	---	1.39
12/14/04		51.00	3.38	ND<50	ND<50	---	---	1.6	ND<0.50	ND<0.50	ND<5.0	6	Iron = 7,700	0.45
MW-42	54.37													
1/31/03		51.72	2.65	140	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.9	ND<1.0-20	4.6
3/26/03		52.94	1.43	ND<50	72	ND<170	---	0.81	ND<0.50	ND<0.50	ND<0.50	5.4	ND<1.0-20	3.16
6/19/03		49.80	4.57	700	ND<50	ND<170	---	230	ND<0.50	ND<0.50	ND<0.50	7.8	TBA=41 All others ND	4.17

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Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-42 Continued														
9/24/03		46.84	7.53	**480**	ND<50	ND<170	---	**230**	**0.75**	**0.64**	ND<0.50	**6.5**	**TBA=31** All others ND	0.43
12/18/03		51.96	2.41	**230**	ND<50	ND<170	---	**80**	**0.67**	ND<0.50	ND<0.50	**6.2**	ND<1.0-20	---
3/23/04		50.46	3.91	**300**	ND<50	ND<170	---	**62**	**0.54**	ND<0.50	ND<0.50	**7.2**	ND<1.0-40	0.68
6/29/04		49.54	4.83	**240**	ND<50	ND<170	---	**51**	ND<1.8	ND<2.0	ND<1.5	ND<20	---	0.41
9/23/04		46.11	8.26	**150**	ND<50	---	---	**19**	ND<0.50	ND<2.0	ND<1.5	ND<20	---	1.40
12/14/04		51.00	3.37	**66**	ND<50	---	---	**3.2**	ND<0.50	ND<0.50	ND<0.50-1.5	ND<12	**Iron = 21,000**	0.43
MW-43	54.61													
2/10/03		50.71	3.90	**43,000**	**98**	**260**	---	**17,000**	**3.3**	ND<0.50	**37**	ND<1.0	**TBA=64** All others ND	2.9
3/26/03		52.86	1.75	**44,000**	**65**	**400**	---	**11,000**	**2.3**	**2.0**	**25.3**	ND<20	**TBA=29** All others ND	2.79
6/19/03		50.64	3.97	**17,000**	ND<50	ND<170	---	**11,000**	**1.7**	**4.9**	**16.8**	ND<30	**TBA=71** All others ND	---
9/24/03		46.80	7.81	**3,300**	ND<50	ND<170	---	**4,000**	**1.3**	**2.9**	**2.9**	**9.4**	**TBA=42** All others ND	1.46
12/18/03		52.00	2.61	**1,500**	**85**	ND<170	---	**230**	ND<0.50	**1.7**	**1.2**	**11.0**	**TBA=35** All others ND	1.09
3/23/04		51.09	3.52	**910**	**51**	ND<170	---	**400**	ND<0.50	**0.68**	**1.0**	**12**	**TBA=46** All others ND<1.0	0.81
6/29/04		48.46	6.15	**1,900**	ND<50	ND<170	---	**1,100**	**1.2**	**4.2**	**3.7**	ND<60	---	1.05
7/20/04		48.10	6.51	**3,500**	ND<50	---	---	**2,000**	ND<5.0	ND<5.0	ND<5.0	ND<30	---	1.40
8/24/04		45.95	8.66	**12,000**	ND<50	---	---	**5,700**	**18**	**23**	**13.5**	ND<30	---	1.54
9/23/04		45.21	9.40	**3,800**	ND<50	---	---	**1,500**	ND<7.0	**29**	**4.5**	ND<130	**F-Hyde = 15** **A-Hyde = 16** Cr = ND<10	2.19
10/21/04		49.54	5.07	**410**	ND<50	---	---	**260**	ND<0.50	**0.80**	**0.83**	ND<30	---	0.48
11/16/04		50.41	4.20	**870**	**62**	---	---	**360**	**1.1**	**6.2**	**2.0**	ND<50	---	---
12/14/04		51.89	2.72	**1,000**	ND<50	---	---	**270**	**1.2**	**0.91**	**2.6**	ND<70	ND<100	0.14
1/11/05		52.98	1.63	**350**	ND<50	---	---	ND<6.0	ND<2.0	ND<0.50	**0.60**	ND<100	ND<100	0.28
2/15/05		52.12	2.49	**320**	ND<50	---	---	ND<4.0	ND<1.5	ND<0.50	ND<0.50	ND<40	---	0.35
3/30/05		52.55	2.06	**650**	ND<50	---	---	**120**	ND<2.0	ND<2.0	1.6	ND<80	---	0.74
MW-44	54.65													
2/10/03		51.15	3.50	**54,000**	**180**	ND<170	---	**22,000**	**92**	**30**	**78**	ND<1.0	**TBA=59** All others ND	3.2
3/26/03		53.04	1.61	**23,300**	**100**	ND<170	---	**11,000**	**26**	**59**	ND<25	ND<50	ND<50-1,000	3.86
6/19/03		50.52	4.13	**6,100**	**61**	ND<170	---	**3,800**	**16**	**50**	**9.3**	ND<3.0	ND<1.0-20	3.91
9/24/03		46.64	8.01	**4,900**	ND<50	ND<170	---	**7,100**	**19**	**30**	**7.0**	**7.1**	**TBA=34** All others ND	1.60
12/18/03		52.78	1.87	**4,200**	ND<50	ND<170	---	**5,700**	**6.4**	**24**	**4.5**	**5.0**	ND<1.0-20	0.76
3/23/04		51.23	3.42	**5,600**	ND<50	ND<170	---	**2,800**	**3.6**	**18**	**4.1**	ND<6.0	ND<1.0-30	0.42
6/29/04		48.45	6.20	**11,000**	**81**	ND<170	---	**6,000**	**26**	**30**	**16.7**	ND<60	---	0.28
7/20/04		47.98	6.67	**12,000**	ND<50	---	---	**6,500**	**22**	**27**	**14.6**	ND<60	---	0.51
8/24/04		47.11	7.54	**2,700**	**53**	---	---	**2,100**	ND<5.0	ND<5.0	ND<5.0	ND<70	---	2.59

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.03; CRWQCB Case No. 1THU116

WELL/ Sample Date	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other Analytes (µg/L)	Dissolved Oxygen (mg/L)
MW-44 Continued														
9/23/04		45.75	8.90	**8,800**	**69**	---	---	**4,600**	**14**	**32**	**13.1**	ND<60	**F-Hyde = 5.5** **A-Hyde = 5.1** Cr = ND<10	2.04
10/21/04		49.53	5.12	**3,500**	**59**	---	---	**1,600**	**4.7**	**3.7**	**6.8**	ND<40	----	0.27
11/16/04		50.63	4.02	**3,100**	**72**	---	---	**1,700**	**6.6**	**8.4**	**9.6**	ND<60	----	0.56
12/14/04		51.76	2.89	**3,000**	**56**	---	---	**1,400**	**4.7**	**5.6**	**6.5**	ND<40	**Iron = 3,500**	0.29
1/11/05		53.66	0.99	**4,000**	**57**	---	---	**2,200**	**7.1**	**1.6**	**9.0**	ND<80	**Iron = 4,600**	0.36
2/15/05		52.10	2.55	**2,900**	**55**	---	---	**1,400**	**4.8**	**2.3**	**6.0**	ND<50	---	0.36
3/30/05		53.26	1.39	**3,600**	ND<50	---	---	**1,800**	**6.7**	**4.3**	**7.1**	ND<70	---	0.39
Duplicate Samples														
MW-13														
1/4/2001				**6,800**	---	---	---	**580**	**340**	**300**	**281**	**4.4**	---	---
MW-13														
4/12/01				**240**	---	---	---	**35**	**2.9**	**4.2**	**8.06**	ND<0.50	---	---
MW-6														
7/10/01				ND<50	---	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**32**	---	---
MW-19														
11/1/01				ND<50	---	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	---
MW-9														
11/1/01				**900**	---	---	---	**330**	**3.1**	**0.60**	**0.72**	ND<1.0	ND<1.0-20	---

NOTES:
feet msl - feet above mean sea level
TPHg - total petroleum hydrocarbons as gasoline
TPHd - total petroleum hydrocarbons as diesel
TPHmo - total petroleum hydrocarbons as motor oil
TPHir - total petroleum hydrocarbons by infrared method
Xylenes - total is reported from m,p-xylene and o-xylene.
Other analytes inlcude the Fuel Oxygenates:
MTBE - methyl tertiary butyl ether
DIPE - di-isopropyl ether
ETBE - ethyl tertiary butyl ehter
TBA - tertiary butyl alcohol
TAME - tertiary amyl methyl ether
A-Hyde - Acetaldehyde
F-Hyde - Formaldehyde
Cr - Dissolved Chromium
COD - Chemical oxygen demand
All results reported in micrograms per liter (µg/L)
ND<50 - non-detect at reporting limits shown
--- = sample not analyzed for parameter
* - sample broken in laboratory and not analyzed

TABLE 2: DECAY RATES FOR BENZENE AND TPHG
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02, CRWQCB Case No. 1THU116

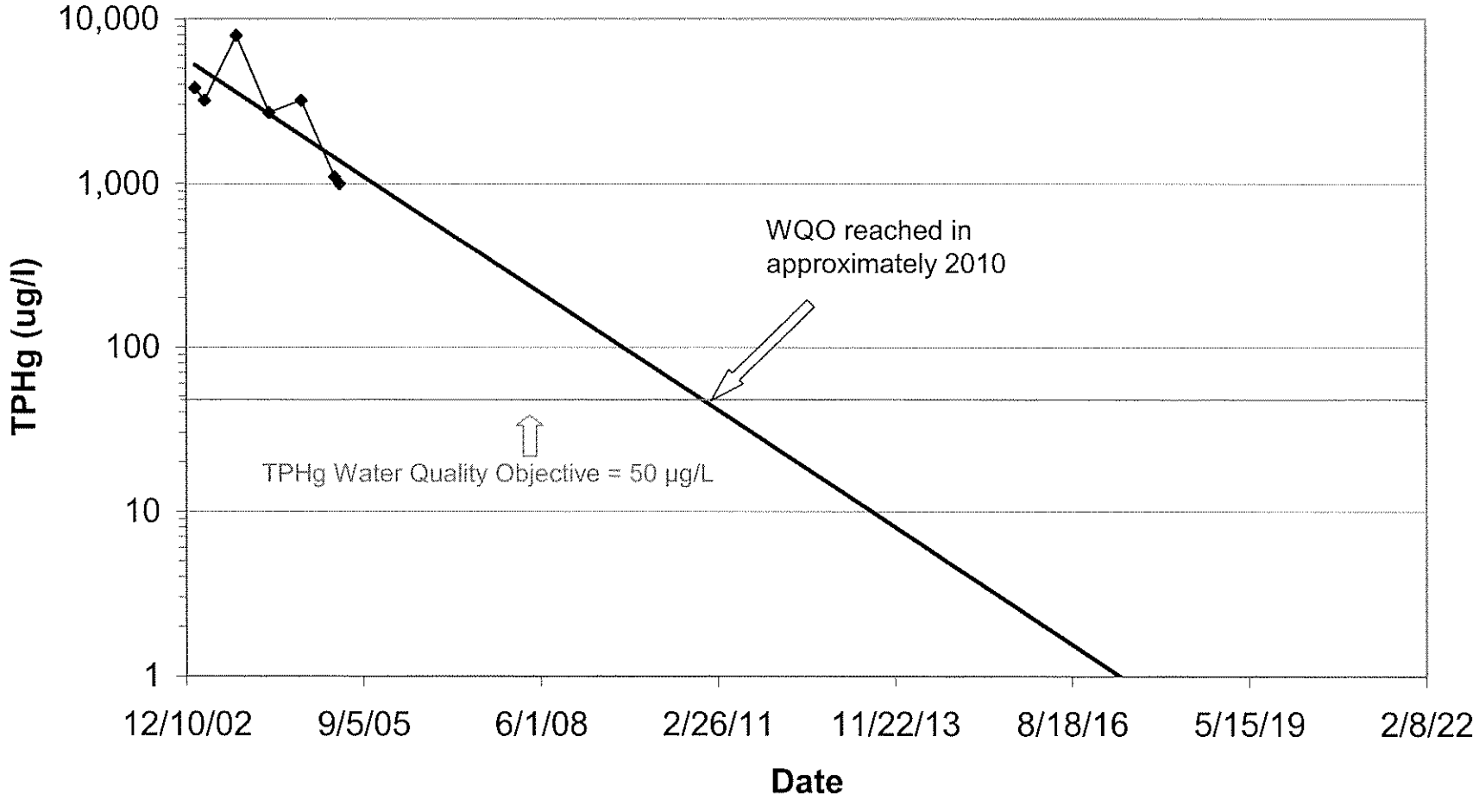
Comparisons of Decay Rates (k) days				
	Derived from			
MW ID	Chart	Analyticals	Literature**	
			slow	fast
TPHg*				
MW31	0.00167	0.00145	0.001031	0.0062
MW32	0.00149	0.0005	0.001031	0.0062
Benzene				
MW31	0.00149	0.00182	0.00095	0.0062
MW32	0.0008	0.00043	0.00095	0.0062

* TPHg literature decay rates are based on cyclohexane decay rates.
**Values for decay rates taken from "Handbook of Environmental Degradation Rates", Howard, P.H.; Boethling, R.S.; et al.

Worksheet 1: Decay Rates in Monitoring Wells MW31 and MW32, Derived from Analytical Results
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO Project No. 4629.02, CRWQCB Case No. 1THU116

Monitoring Well ID / Constituent	Concentration Final (CF) (µg/L)	(CF) Date		Concentration Initial (µg/L)	(CI) Date		time (t) days between CF and CI		k = decay rate constant (days)		Using Decay rate (k). Obtain (t in days) to reach WQO		WQO TPHg 50 (µg/L)	WQO Benzene 1.0 (µg/L)	year WQO reached
TPHg															
MW 31	1100	3/30/2005		3200	3/27/2003		734		0.00145		2125				2011
MW 32	2000	3/30/2005		2900	3/27/2003		734		0.0005		7287				2025
BENZENE															
MW31	240	3/30/2005		910	3/27/2003		734		0.00182		3018				2013
MW32	680	3/30/2005		930	3/27/2003		734		0.00043		15290				2047

CHART 1: TPHg CONCENTRATIONS AND TREND LINE FOR MONITORING WELL MW31
Former Shell Bulk Plant
400 Eighth Street, Fortuna, California
CRWQCB Case No. 1THU116; LACO Project No. 4629.02



P:\4000\4629 HPI Bulk Plant\Submittals\GW Mon Report\2005\Biannuals\4629decayrates.xls

CHART 2: TPHg CONCENTRATIONS AND TREND LINE FOR MONITORING WELL MW32
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO Project No. 4629.02, CRWQCB Case No. 1THU116

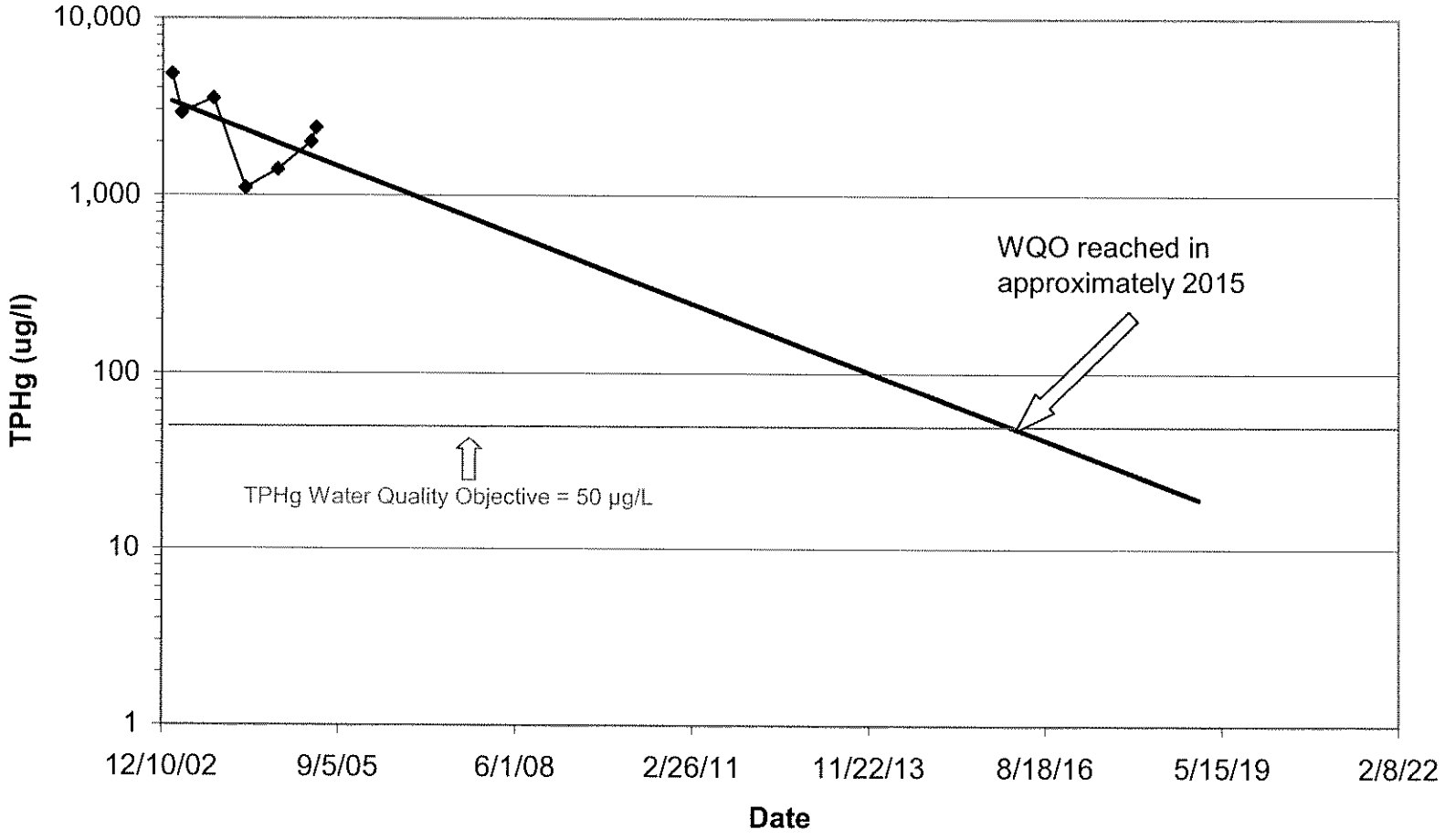


CHART 3: BENZENE CONCENTRATIONS AND TREND LINE IN MONITORING WELL MW31
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO Project No. 4629.02, CRWQCB Case No. 1THU116

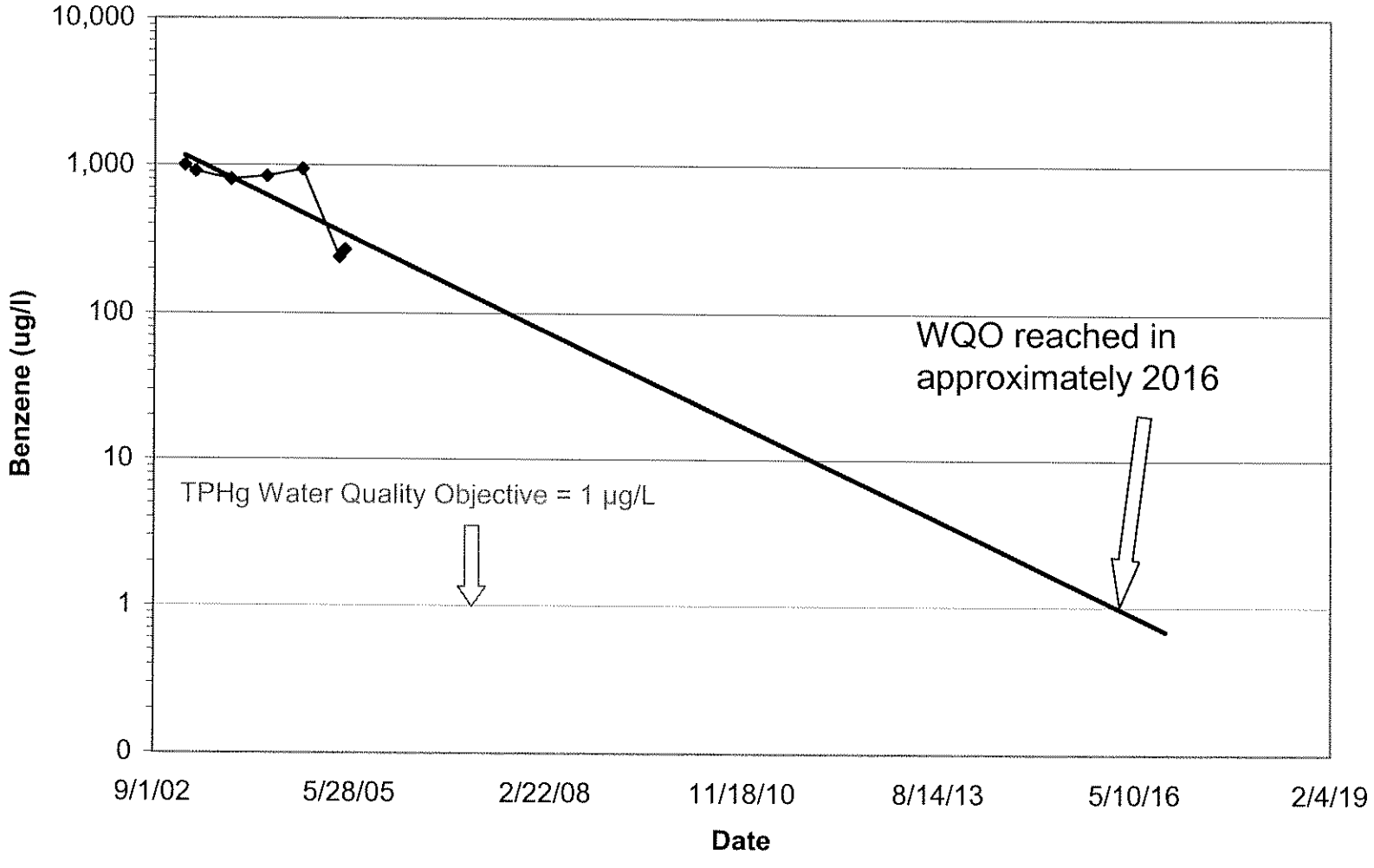
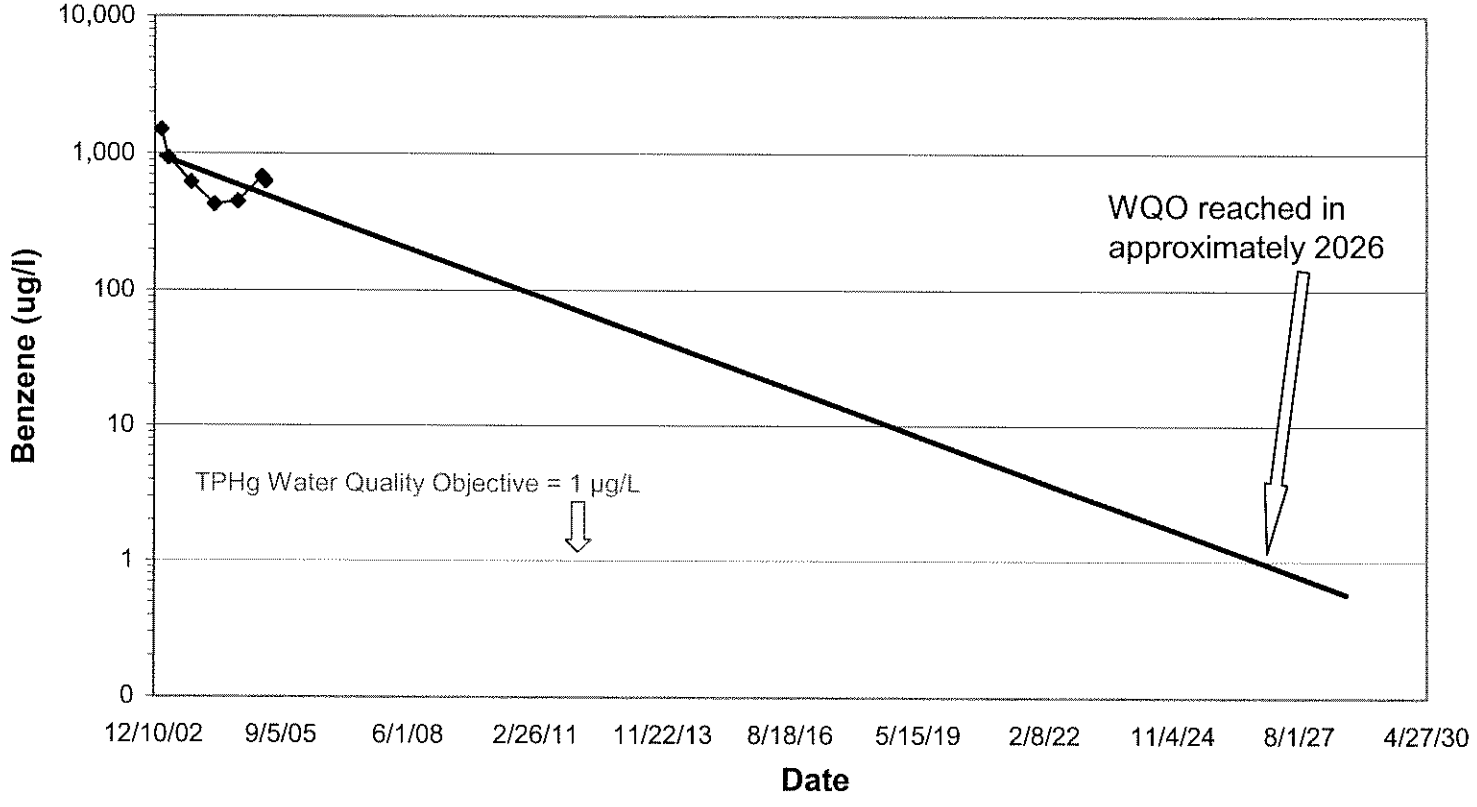


CHART 4: BENZENE CONCENTRATIONS AND TREND LINE FOR MONITORING WELL MW32
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO Project No. 4629.02, CRWQCB Case No. 1THU116



Attachment 1

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Bulk Plant - HPI (AST)
Project No.: 4629.02
Date: 3-30-05
Golbal ID No.: T0602391121
PM: CJW

Tech: SJD
Mob/Demob time: .25/.25
Travel time: .75
Time on site: 7:35
Time off site: 10:30
Mileage: 18

WELL No.:	MW3		MW18		MW31		MW32			
DIAMETER (in)	4.00		1.50		1.50		1.50			
SCREENED INTERVAL (ft)	3-20		18.5-21.5		14-15.5		16.5-18			
DEPTH TO WATER (ft)	2.23		—		2.12		2.49			
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH										
TEMP (°C)										
Ecw (µmohs)										
ORP (mV)	Ur	0			Ur	Ur	Ur	Ur		
DO (mg/L)	1.87	0.51			1.45	0.44	1.20	0.32		
OTHER (units)	—		—		—		—			
PURGE: TIME	9:01	9:21			9:44	9:52	10:11	10:19		
METHOD (DHP/CB/B)	DHP				DHP		DHP			
RATE (Lpm)	0.20				0.16		0.18			
VOLUME (L)	4.0				1.30		1.40			
COLOR	CLEAR	SLIGHT ORANGE TINT CLOUDY			LT. GREY CLOUDY	LT. GREY CLOUDY	LT. GREY CLOUDY	LT. GREY CLOUDY		
ODOR	LIGHT RUBBER/FUEL				MED. FUEL		MED. FUEL			
INTAKE DEPTH (FEET)	12.0				14.5		17.5			
SAMPLE: TIME	9:22		—		9:53		10:20			
METHOD (DHP/CB/B)	DHP		—		DHP		DHP			
ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC			
TOTAL DRAWDOWN (FEET)	0.57		—		2.06		0.90			
REMARKS	—		3 FEET OR MORE WATER IN RAVINE		—		—			
WELL CONDITION	ALL 3 BOLT HOLES STRIPPED		COULD NOT GET TO WELL		good		good			
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

LACO ASSOCIATES
CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
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Project Name: Bulk Plant - HPI (AST)
Project No.: 4629.02
Date: 3-30-05
Golbal ID No.: T0602391121
PM: CJW

Tech: SJD
Mob/Demob time: .25 / .25
Travel time: .75
Time on site: 7:35
Time off site: 10:30
Mileage: 18

WELL No.:	MW10	MW11	MW14	MW17D	
DIAMETER (in)	2.00	1.00	1.00	1.50	
SCREENED INTERVAL (ft)	3-18	2-14	6-15	22.5-27.5	
DEPTH TO WATER (ft)	3.21	8.72	6.10	7.48	

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

		MW10 INITIAL	MW10 FINAL	MW11 INITIAL	MW11 FINAL	MW14 INITIAL	MW14 FINAL	MW17D INITIAL	MW17D FINAL	INITIAL	FINAL
FIELD INTRINSICS	pH										
	TEMP (°C)										
	Ecw (µmohs)										
	ORP (mV)										
	DO (mg/L)										
	OTHER (units)										
PURGE	TIME										
	METHOD (DHP/CB/B)										
	RATE (Lpm)										
	VOLUME (L)										
	COLOR										
	ODOR										
	INTAKE DEPTH (FEET)										
SAMPLE	TIME										
	METHOD (DHP/CB/B)										
	ANALYTES	DTW ONLY		DTW ONLY		DTW ONLY		DTW ONLY			
	TOTAL DRAWDOWN (FEET)										
	REMARKS										
WELL CONDITION		good		NO CAP ON WELL		good		good			
WASTE DRUMS											

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

REVISED:3/29/05

CONSULTING ENGINEERS
T 707.443.5054
FAX 707.443.0553

Project Name: BULK PLANT - HPI (AST)
Project No.: 4629.02
Tech: SJD
Date: 3-30-05

WELL ID:	METER ACCURACY RANGE				
MW3	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:03	~	~	~	-93	1.94
9:05	~	~	~	-90	1.05
9:07	~	~	~	-80	0.78
9:09	~	~	~	-61	0.68
9:11	~	~	~	-48	0.60
9:13	~	~	~	-31	0.60
9:15	~	~	~	-21	0.60
9:17	~	~	~	-4	0.53
9:19	~	~	~	-1	0.52

WELL ID: MW3 CONT.

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:21	~	~	~	0	0.51

WELL ID: MW31

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:46	~	~	~	Ur	1.22
9:48	~	~	~	Ur	0.61
9:50	~	~	~	Ur	0.45
9:52	~	~	~	Ur	0.44

WELL ID: MW32

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:13	~	~	~	Ur	0.65
10:15	~	~	~	Ur	0.48
10:17	~	~	~	Ur	0.38
10:19	~	~	~	Ur	0.32

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

CONSULTING.ENGINEERS

TEL 707.443.5054
FAX 707.443.0553

Project Name: BULK PLANT - HPI (AST)

Project No.: 4629.02

Tech: SJD

Date: 3-30-05

WELL ID: MW3		WELL ID: MW10		WELL ID: MW11		WELL ID: MW14		WELL ID: MW17D		WELL ID: MW18	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
03	2.23	8:06	3.71	8:12	8.72	8:16	6.10	8:23	7.48	ABOUT	3' OF
36	2.23	8:39	3.71	8:44	8.72	8:47	6.10	8:53	7.48	WATER	IN
										RAVINE - COULD	
										NOT GET TO	
										WELL	

WELL ID: MW31		WELL ID: MW32		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
31	2.12	8:32	2.49								
57	2.12	8:58	2.49								

WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)

REVISED:8/16/04

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone: (707) 443-5054
Copies of Report to: LACO; Chris Watt
Sampler (Sign & Print): SJD

TAT: [ ] 24 Hr [ ] 48 Hr [ ] 5 Day [ ] 5–7 Day
[✓] STD (2–3 Wk) [ ] Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms [ ]
Preliminary: FAX [✓] Verbal [ ] By:
Final Report: FAX [ ] Verbal [ ] By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_4O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4629.02
Project Name: HPI - Bulk Plant-AST
Purchase Order Number: task 3020

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHg/BTEX (CONTAINER 9, PRESERVATIVE b)	TPHd/mo w/SGC (CONTAINER 7, PRESERVATIVE ------)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4629-MW-3-W	3-30-05	AM	GW	3	1	GEOTRACKER
	4629-MW31-W				3	1	
	4629-MW32-W				3	1	
	4629-QCTB-W				1		

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME

SAMPLE DISPOSAL
[✓] NCL Disposal of Non-Contaminated
[ ] Return [ ] Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Bulk Plant - HPI (AST)
Project No.: 4629.02
Date: 4-26-05
Golbal ID No.: T0602391121
PM: CJW

Tech: SJD
Mob/Demob time: .50 / .25
Travel time: 1.0
Time on site: 8:00
Time off site: 2:10
Mileage: 36

WELL No.	MW3		MW7		MW9		MW10		MW11	
DIAMETER (in)	4.00		4.00		2.00		2.00		1.00	
SCREENED INTERVAL (ft)	3-20		6-25		3-18		3-18		2-14	
DEPTH TO WATER (ft)	6.29		5.80		8.56		7.35			
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH										
TEMP (°C)										
Ecw (µmohs)										
ORP (mV)	-12	56	-39	-25	-66	ur	9	26		
DO (mg/L)	1.23	0.42	1.23	0.65	1.19	0.54	1.41	0.68		
OTHER (units)										
PURGE: TIME	9:57	10:05	8:52	9:00	1:21	1:29	9:21	9:31		
METHOD (DHP/CB/B)	DHP		DHP		DHP		DHP			
RATE (Lpm)	0.19		0.19		0.20		0.20			
VOLUME (L)	1.50		1.50		1.60		2.0			
COLOR	CLEAR	CLEAR	CLEAR	CLOUDY	CLEAR	LT. BROWN CLOUDY	CLEAR	CLOUDY		
ODOR	LIGHT RUBBER / FUEL		MED. RUBBER / FUEL		LIGHT FUEL		LIGHT SULFUR			
INTAKE DEPTH (FEET)	12.0		15.0		12.0		11.0			
SAMPLE: TIME	10:07		9:02		1:31		9:33			
METHOD (DHP/CB/B)	DHP		DHP		DHP		DHP			
ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC	
TOTAL DRAWDOWN (FEET)	0.37		0.43		0.73		0.66			
REMARKS					FD-MB	NEW 2" CAP				
WELL CONDITION	good		good		NO LOCK ON WELL COVER ~ NO WELL PLUG		good			

WASTE DRUMS: 1 DOT DRUM ONSITE DECON + PURGE H2O 1/2 FULL

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Bulk Plant - HPI (AST)
Project No.: 4629.02
Date: 4-26-05
Golbal ID No.: T0602391121
PM: CJW

Tech: SJD
Mob/Demob time: .50/.25
Travel time: 1.0
Time on site: 8:00
Time off site: 2:10
Mileage: 36

WELL No.:	MW14		MW17S		MW17D		MW18		MW21	
DIAMETER (in)	1.00		1.50		1.50		1.50		1.00	
SCREENED INTERVAL (ft)	6-15		15.5-18		22.5-27.5		18.5-21.5		10-12	
DEPTH TO WATER (ft)									6.49	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH										
FIELD INTRINSICS: TEMP (°C)										
FIELD INTRINSICS: Ecw (µmohs)										
FIELD INTRINSICS: ORP (mV)									22	-46
FIELD INTRINSICS: DO (mg/L)									1.96	0.40
FIELD INTRINSICS: OTHER (units)									—	
PURGE: TIME									12:48	1:02
PURGE: METHOD (DHP/CB/B)									CAM PUMP	
PURGE: RATE (Lpm)									0.18	
PURGE: VOLUME (L)									2.50	
PURGE: COLOR									CLEAR	CLEAR
PURGE: ODOR									SLIGHT RUBBER	
PURGE: INTAKE DEPTH (FEET)									13.0	
SAMPLE: TIME							—		11:04	
SAMPLE: METHOD (DHP/CB/B)							—		CAM PUMP	
SAMPLE: ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC	
SAMPLE: TOTAL DRAWDOWN (FEET)							—		0.38	
SAMPLE: REMARKS							TOO MUCH WATER IN RAVINE TO GET TO WELL		—	
WELL CONDITION							—		good	
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

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Project No.: 4629.02
Date: 4-26-05
Golbal ID No.: T0602391121
PM: CJW

Tech: SJD
Mob/Demob time: .50 / 1.25
Travel time: 1.0
Time on site: 8:00
Time off site: 2:10
Mileage: 36

WELL No.:	MW22		MW26		MW31		MW32			
DIAMETER (in)	2.00		2.00		1.50		1.50			
SCREENED INTERVAL (ft)	10-12		5-10		16.5-18		14-15.5			
DEPTH TO WATER (ft)			4.91		4.96		4.29			
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH										
TEMP (°C)										
Ecw (µmohs)										
ORP (mV)			-79	-64	-90	UT	-63	-96		
DO (mg/L)			1.19	0.59	1.43	0.49	1.43	0.57		
OTHER (units)			—		—		—			
PURGE: TIME			10:26	10:44	11:06	11:14	11:50	11:58		
METHOD (DHP/CB/B)			DHP		DHP		DHP			
RATE (Lpm)			0.17		0.19		0.20			
VOLUME (L)			3.0		1.50		1.60			
COLOR			CLEAR	CLEAR	LT. GREY CLOUDY	LT. GREY CLOUDY	CLEAR	CLOUDY w/SHEEN		
ODOR			MED. SULFUR		MED. SULFUR / RUBBER		MED. RUBBER / FUEL			
INTAKE DEPTH (FEET)			8.0		17.0		14.5			
SAMPLE: TIME			10:46		11:16		12:00			
METHOD (DHP/CB/B)			DHP		DHP		DHP			
ANALYTES			TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC			
TOTAL DRAWDOWN (FEET)			0.04		4.31		2.73			
REMARKS			—		—		—			
WELL CONDITION			good		good		good			
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

CONSULTING ENGINEERS

TEL 707.443.5054
FAX 707.443.0553

Project Name: BULK PLANT - HPI (AST)
Project No.: 4629.02

Tech: SJA
Date: 4-26-05

METER ACCURACY RANGE

WELL ID:	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L
mw7					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
8:54	~	~	~	-29	0.70
8:56	~	~	~	-27	0.53
8:58	~	~	~	-25	0.57
9:00	~	~	~	-25	0.65

WELL ID: mw10

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:23	~	~	~	18	2.04
9:25	~	~	~	22	0.88
9:27	~	~	~	23	0.67
9:29	~	~	~	26	0.60
9:31	~	~	~	26	0.68

WELL ID: mw3

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:59	~	~	~	-38	0.86
10:01	~	~	~	-53	0.54
10:03	~	~	~	-56	0.42
10:05	~	~	~	-56	0.42

WELL ID: mw26

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:28	~	~	~	-93	0.88
10:30	~	~	~	-96	0.52
10:32	~	~	~	-90	0.44
10:34	~	~	~	-83	0.44
10:36	~	~	~	-77	0.48
10:38	~	~	~	-73	0.57
10:40	~	~	~	-68	0.54
10:42	~	~	~	-65	0.58
10:44	~	~	~	-64	0.59

WELL ID: mw31

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:08	~	~	~	-99	0.60
11:10	~	~	~	Ur	0.45
11:12	~	~	~	Ur	0.47
11:14	~	~	~	Ur	0.49

WELL ID: mw32

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:52	~	~	~	-83	0.58
11:54	~	~	~	-90	0.51
11:56	~	~	~	-95	0.56
11:58	~	~	~	-96	0.57

CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: BULK PLANT - HPI (AST)
Project No.: 4629.02
Tech: SJD
Date: 4-26-05

WELL ID:	METER ACCURACY RANGE				
mw21	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:50	~	~	~	19	0.89
12:52	~	~	~	-15	0.54
12:54	~	~	~	-30	0.51
12:56	~	~	~	-38	0.50
12:58	~	~	~	-44	0.46
1:00	~	~	~	-46	0.45
1:02	~	~	~	-46	0.40

WELL ID: mw9

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
1:23	~	~	~	-91	0.68
1:25	~	~	~	-99	0.50
1:27	~	~	~	Ur	0.46
1:29	~	~	~	Ur	0.54

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: BULK PLANT - HPI (AST)
Project No.: 4629.02
Tech: SJD
Date: 4-26-05

WELL ID: MW3		WELL ID: MW7		WELL ID: MW9		WELL ID: MW10		WELL ID: MW27		WELL ID: MW26	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
:26	6.29	8:28	5.89	12:20	8.54	8:30	7.35	12:22	6.49	8:32	4.91
:38	6.29	8:40	5.89	12:30	8.54	8:42	7.35	12:32	6.49	8:44	4.91

WELL ID: MW31		WELL ID: MW32		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
:33	4.95	8:35	4.39								
:45	4.95	8:47	4.39								

WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
IME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)

REVISED:8/16/04

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Bulk Plant - HPI (AST)
Project No.: 4629.02
Date: 4/26/05
Golbal ID No.: T0602391121
PM: CJW

Tech: ~~SJD~~ JLS
Mob/Demob time: 15/15
Travel time: 1.00
Time on site: 8:00
Time off site: 11:45
Mileage: 36

WELL No.:	MW3	MW7	MW9	MW10	MW11
DIAMETER (in)	4.00	4.00	2.00	2.00	1.00
SCREENED INTERVAL (ft)	3-20	6-25	3-18	3-18	2-14
DEPTH TO WATER (ft)					12.96'

		MW3 INITIAL	MW3 FINAL	MW7 INITIAL	MW7 FINAL	MW9 INITIAL	MW9 FINAL	MW10 INITIAL	MW10 FINAL	MW11 INITIAL	MW11 FINAL
FIELD INTRINSICS	pH										
	TEMP (°C)										
	Ecw (µmohs)										
	ORP (mV)										
	DO (mg/L)										
	OTHER (units)										
PURGE	TIME										
	METHOD (DHP/CB/B)									3/4" B	
	RATE (Lpm)									—	
	VOLUME (L)									—	
	COLOR									Clear	Lt. Brown
	ODOR									None	
	INTAKE DEPTH (FEET)									—	
SAMPLE	TIME									10:15	
	METHOD (DHP/CB/B)									3/4" B	
	ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC	
	TOTAL DRAWDOWN (FEET)									0.25	
	REMARKS										
WELL CONDITION										No Cap no cover	
WASTE DRUMS											

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Bulk Plant - HPI (AST)
Project No.: 4629.02
Date: 4/26/05
Golbal ID No.: T0602391121
PM: CJW

Tech: ~~SJD~~ JLS
Mob/Demob time: .5/.5
Travel time: 1.0
Time on site: 8:00
Time off site: 11:45
Mileage: 36

WELL No.	MW14 *		MW17S *		MW17D *		MW18 *		MW21	
DIAMETER (in)	1.00		1.50		1.50		1.50		1.00	
SCREENED INTERVAL (ft)	6-15		15.5-18		22.5-27.5		18.5-21.5		10-12	
DEPTH TO WATER (ft)	10.28'		3.47		8.33					
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH										
FIELD INTRINSICS: TEMP (°C)										
FIELD INTRINSICS: Ecw (µmohs)										
FIELD INTRINSICS: ORP (mV)										
FIELD INTRINSICS: DO (mg/L)										
FIELD INTRINSICS: OTHER (units)										
PURGE: TIME	10:41	10:43	9:11	9:15	9:26	9:31				
PURGE: METHOD (DHP/CB/B)	3/4" B		3/4" B		3/4" B					
PURGE: RATE (Lpm)	0.25		0.25		0.20					
PURGE: VOLUME (L)	0.5		1.0		1.0					
PURGE: COLOR	Clear	Lt Brown Milky	Clear	clear	Clear	Clear				
PURGE: ODOR	None		Slight		Slight					
PURGE: INTAKE DEPTH (FEET)	–		–		–					
SAMPLE: TIME	10:53		9:20		9:36					
SAMPLE: METHOD (DHP/CB/B)	3/4" B		3/4" B		3/4" B					
SAMPLE: ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC	
SAMPLE: TOTAL DRAWDOWN (FEET)	2.76		6.63'		8.34'					
SAMPLE: REMARKS										
WELL CONDITION	Good		Good		Good					
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

LACO ASSOCIATES
CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Bulk Plant - HPI (AST)
Project No.: 4629.02
Date: 4-26-05
Golbal ID No.: T0602391121
PM: CJW

Tech: SJD
Mob/Demob time: .5/.5
Travel time: 1.00
Time on site: 8:00
Time off site: 11:45
Mileage: 36

WELL No.:	MW22		MW26		MW31		MW32			
DIAMETER (in)	2.00		2.00		1.50		1.50			
SCREENED INTERVAL (ft)	10-12		5-10		14-15.5		16.5-18			
DEPTH TO WATER (ft)										
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH										
TEMP (°C)										
Ecw (µmohs)										
ORP (mV)										
DO (mg/L)										
OTHER (units)										
PURGE: TIME										
METHOD (DHP/CB/B)										
RATE (Lpm)										
VOLUME (L)										
COLOR										
ODOR										
INTAKE DEPTH (FEET)										
SAMPLE: TIME										
METHOD (DHP/CB/B)										
ANALYTES			TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC			
TOTAL DRAWDOWN (FEET)										
REMARKS										
WELL CONDITION										
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Gas Plant (AST)
Project No.: 4629.02
Tech: JLS
Date: 4/26/05

WELL ID: 175		WELL ID: 170		WELL ID: 11		WELL ID: 14		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:05	3.47	9:08	8.31	9:49	12.95	10:34	10.28				
9:10	3.47	9:23	8.33	9:54	12.96	10:39	10.28				

WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)

WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 fax 707-822-6831

Chain of Custody

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone: (707) 443-5054
Copies of Report to: LACO; Chris Watt
Sampler (Sign & Print): SJD

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☑ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☑ Verbal ☐ By:
Final Report: FAX ☐ Verbal ☐ By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4629.02
Project Name: HPI - Bulk Plant-AST
Purchase Order Number: task 3025

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHg/BTEX (ANALYSIS)	TPHd w/SGC (ANALYSIS)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4629-MW-3-W	4-26-05	AM	GW	3	1	GEOTRACKER
	4629-MW-9-W				3	1	
	4629-MW-10-W				3	1	
	4629-MW-11-W				3	1	
	4629-MW-14-W				3	1	
	4629-MW-17s-W				3	1	
	4629-MW-17d-W				3	1	
	4629-MW-21-W				3	1	
	4629-MW-7-W		PM		3	1	

CONTAINER: 9 (TPHg/BTEX), 7 (TPHd w/SGC)
PRESERVATIVE: b (TPHg/BTEX), ------ (TPHd w/SGC)

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME

SAMPLE DISPOSAL
☑ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

NORTH COAST LABORATORIES LTD.
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707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501

Phone: (707) 443-5054
Copies of Report to: LACO; Chris Watt

Sampler (Sign & Print): SJD

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☑ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☑ Verbal ☐ By:
Final Report: FAX ☐ Verbal ☐ By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4629.02
Project Name: HPI - Bulk Plant-AST
Purchase Order Number: task 3023

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 1 (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd w/SGC (CONTAINER 7, PRESERVATIVE ------)
	4629-MW-26-W	4-26-05	AM	GW	3	1
	4629-MW-31-W	↓	↓	↓	3	1
	4629-MW-32-W				3	1
	4629-QCFD				3	
	4629-QCMB				3	
	4629-QCTB		PM		1	

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME

SAMPLE DISPOSAL
☑ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Attachment 2

NORTH COAST LABORATORIES LTD.

April 19, 2005

RECEIVED
LACO ASSOCIATES
APR 21 2005
BY: JG

LACO Associates
P.O. Box 1023
Eureka, CA 95502

Order No.: 0503661
Invoice No.: 49442
PO No.: TASK 3020
ELAP No. 1247-Expires July 2006

Attn: Accounts Payable

RE: 4629.02, HPI-Bulk Plant-AST

CJW
FRB

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4629-MW3-W
01D	4629-MW3-W
02A	4629-MW31-W
02D	4629-MW31-W
03A	4629-MW32-W
03D	4629-MW32-W
04A	4629-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s) | QA Unit | Jesse G. Chaney, Jr. Laboratory Director

5680 West End Road • Arcata California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Printed on Recycled Paper

North Coast Laboratories, Ltd. **Date:** *19-Apr-05*

CLIENT: LACO Associates
Project: 4629.02, HPI-Bulk Plant-AST
Lab Order: 0503661

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel/motor oil. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

TPH as Diesel/Motor Oil w/ Silica Gel Cleanup:
Samples 4629-MW31-W and 4629-MW32-W contain some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights. These samples also contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

The method blank that is associated with the samples analyzed on 4/12/05 had values above the reporting limits for both diesel and motor oil. The samples with values above the reporting limit for diesel did not show the same pattern as the method blank. The samples with values above the reporting limit for diesel were re-extracted and analyzed. Sample 4629-MW32-W had problems associated with the re-extraction and is being reported from the analysis on 4/12/05. Because the sample did not have the same pattern as the method blank and the re-extracted sample showed a pattern that confirms the original analysis, the data were accepted.

TPH as Gasoline:
The gasoline values for samples 4629-MW3-W, 4629-MW31-W and 4629-MW32-W include the reported gasoline components in addition to other peaks in the gasoline range.

BTEX:
Some reporting limits were raised for samples 4629-MW31-W and 4629-MW32-W due to matrix interference.

The surrogate recovery was below the lower acceptance limit for sample 4629-QCTB-W. The response of the reporting limit standard was such that the analytes would have been detected even with the low recovery; therefore, the data were accepted.

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Date: 19-Apr-05
WorkOrder: 0503661

ANALYTICAL REPORT

Client Sample ID: 4629-MW3-W **Received:** 3/30/05 **Collected:** 3/30/05 0:00
Lab ID: 0503661-01A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/9/05
Benzene	38	5.0	µg/L	10		4/9/05
Toluene	1.2	0.50	µg/L	1.0		4/9/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/9/05
m,p-Xylene	0.59	0.50	µg/L	1.0		4/9/05
o-Xylene	ND	0.50	µg/L	1.0		4/9/05
Surrogate: Cis-1,2-Dichloroethylene	104	85-115	% Rec	1.0		4/9/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	180	50	µg/L	1.0		4/9/05

Client Sample ID: 4629-MW3-W **Received:** 3/30/05 **Collected:** 3/30/05 0:00
Lab ID: 0503661-01D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	4/8/05	4/12/05
TPHC Motor Oil	ND	170	µg/L	1.0	4/8/05	4/12/05

Client Sample ID: 4629-MW31-W **Received:** 3/30/05 **Collected:** 3/30/05 0:00
Lab ID: 0503661-02A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	8.0	µg/L	1.0		4/9/05
Benzene	240	50	µg/L	100		4/9/05
Toluene	ND	20	µg/L	1.0		4/9/05
Ethylbenzene	ND	5.0	µg/L	1.0		4/9/05
m,p-Xylene	ND	5.0	µg/L	1.0		4/9/05
o-Xylene	ND	5.0	µg/L	1.0		4/9/05
Surrogate: Cis-1,2-Dichloroethylene	102	85-115	% Rec	1.0		4/9/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1,100	50	µg/L	1.0		4/9/05

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Date: 19-Apr-05
WorkOrder: 0503661

ANALYTICAL REPORT

Client Sample ID: 4629-MW31-W **Received:** 3/30/05 **Collected:** 3/30/05 0:00
Lab ID: 0503661-02D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	82	50	µg/L	1.0	4/12/05	4/15/05
TPHC Motor Oil	ND	170	µg/L	1.0	4/12/05	4/15/05

Client Sample ID: 4629-MW32-W **Received:** 3/30/05 **Collected:** 3/30/05 0:00
Lab ID: 0503661-03A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	20	µg/L	1.0		4/9/05
Benzene	680	50	µg/L	100		4/9/05
Toluene	13	5.0	µg/L	10		4/9/05
Ethylbenzene	ND	10	µg/L	1.0		4/9/05
m,p-Xylene	ND	10	µg/L	1.0		4/9/05
o-Xylene	ND	5.0	µg/L	1.0		4/9/05
Surrogate: Cis-1,2-Dichloroethylene	91.3	85-115	% Rec	100		4/9/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	2,000	500	µg/L	10		4/9/05

Client Sample ID: 4629-MW32-W **Received:** 3/30/05 **Collected:** 3/30/05 0:00
Lab ID: 0503661-03D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	160	50	µg/L	1.0	4/8/05	4/12/05
TPHC Motor Oil	ND	170	µg/L	1.0	4/8/05	4/12/05

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Date: 19-Apr-05
WorkOrder: 0503661

ANALYTICAL REPORT

Client Sample ID: 4629-QCTB-W **Received:** 3/30/05 **Collected:** 3/30/05 0:00
Lab ID: 0503661-04A **Matrix:** Trip Blank

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/8/05
Benzene	ND	0.50	µg/L	1.0		4/8/05
Toluene	ND	0.50	µg/L	1.0		4/8/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/8/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/8/05
o-Xylene	ND	0.50	µg/L	1.0		4/8/05
Surrogate: Cis-1,2-Dichloroethylene	78.7	85-115	% Rec	1.0		4/8/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		4/8/05

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North Coast Laboratories, Ltd.

Date: 19-Apr-05

CLIENT: LACO Associates
Work Order: 0503661
Project: 4629.02, HPI-Bulk Plant-AST

QC SUMMARY REPORT

Method Blank

Sample ID **MB-4/8/05** Batch ID: **R34290** Test Code: **BTXEW** Units: **µg/L** Analysis Date **4/8/05 8:04:21 PM** Prep Date
Client ID: Run ID: **ORGC8_050408B** SeqNo: **497151**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	3.0									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									
Cis-1,2-Dichloroethylene	0.878	0.10	1.00	0	87.8%	85	115	0			

Sample ID **MB-13296** Batch ID: **13296** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **4/12/05 1:29:03 AM** Prep Date **4/8/05**
Client ID: Run ID: **ORGC5_050411B** SeqNo: **498755**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	188.1	50									
TPHC Motor Oil	180.9	170									

Sample ID **MB-13318** Batch ID: **13318** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **4/15/05 5:05:09 PM** Prep Date **4/12/05**
Client ID: Run ID: **ORGC5_050411B** SeqNo: **498764**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	24.57	50									J
TPHC Motor Oil	ND	170									

Sample ID **MB-4/8/05** Batch ID: **R34289** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **4/8/05 8:04:21 PM** Prep Date
Client ID: Run ID: **ORGC8_050408A** SeqNo: **497137**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	ND	50									

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

North Coast Laboratories, Ltd.

Date: 19-Apr-05

CLIENT: LACO Associates
Work Order: 0503661
Project: 4629.02, HPI-Bulk Plant-AST

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-05243** Batch ID: **R34290** Test Code: **BTXEW** Units: **µg/L** Analysis Date **4/8/05 5:11:22 PM** Prep Date
Client ID: Run ID: **ORGC8_050408B** SeqNo: **497149**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	45.09	3.0	40.0	0	113%	85	115	0			
Benzene	5.298	0.50	5.00	0	106%	85	115	0			
Toluene	5.089	0.50	5.00	0	102%	85	115	0			
Ethylbenzene	5.009	0.50	5.00	0	100%	85	115	0			
m,p-Xylene	10.13	0.50	10.0	0	101%	85	115	0			
o-Xylene	5.049	0.50	5.00	0	101%	85	115	0			
Cis-1,2-Dichloroethylene	0.991	0.10	1.00	0	99.1%	85	115	0			

Sample ID **LCSD-05243** Batch ID: **R34290** Test Code: **BTXEW** Units: **µg/L** Analysis Date **4/8/05 5:46:14 PM** Prep Date
Client ID: Run ID: **ORGC8_050408B** SeqNo: **497150**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	43.29	3.0	40.0	0	108%	85	115	45.1	4.08%	15	
Benzene	5.261	0.50	5.00	0	105%	85	115	5.30	0.715%	15	
Toluene	5.057	0.50	5.00	0	101%	85	115	5.09	0.637%	15	
Ethylbenzene	4.993	0.50	5.00	0	99.9%	85	115	5.01	0.326%	15	
m,p-Xylene	10.12	0.50	10.0	0	101%	85	115	10.1	0.131%	15	
o-Xylene	5.018	0.50	5.00	0	100%	85	115	5.05	0.619%	15	
Cis-1,2-Dichloroethylene	1.01	0.10	1.00	0	101%	85	115	0.991	2.02%	15	

Sample ID **LCS-13296** Batch ID: **13296** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **4/11/05 10:43:48 PM** Prep Date **4/8/05**
Client ID: Run ID: **ORGC5_050411B** SeqNo: **498753**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	352.3	50	500	0	70.5%	42	96	0			B
TPHC Motor Oil	898.5	170	1,000	0	89.9%	52	103	0			B

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates
Work Order: 0503661
Project: 4629.02, HPI-Bulk Plant-AST

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-13296** Batch ID: **13296** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **4/11/05 11:16:53 PM** Prep Date **4/8/05**
Client ID: Run ID: **ORGC5_050411B** SeqNo: **498754**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	357.6	50	500	0	71.5%	42	96	352	1.50%	15	B
TPHC Motor Oil	922.4	170	1,000	0	92.2%	52	103	898	2.62%	15	B

Sample ID **LCS-13318** Batch ID: **13318** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **4/15/05 2:20:14 PM** Prep Date **4/12/05**
Client ID: Run ID: **ORGC5_050411B** SeqNo: **498762**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	289.1	50	500	0	57.8%	42	96	0			
TPHC Motor Oil	648.6	170	1,000	0	64.9%	52	103	0			

Sample ID **LCSD-13318** Batch ID: **13318** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **4/15/05 2:53:17 PM** Prep Date **4/12/05**
Client ID: Run ID: **ORGC5_050411B** SeqNo: **498763**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	292.5	50	500	0	58.5%	42	96	289	1.18%	15	
TPHC Motor Oil	651.0	170	1,000	0	65.1%	52	103	649	0.378%	15	

Sample ID **LCS-05244** Batch ID: **R34289** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **4/8/05 6:20:54 PM** Prep Date
Client ID: Run ID: **ORGC8_050408A** SeqNo: **497135**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	558.8	50	500	0	112%	81	126	0			

Sample ID **LCSD-05244** Batch ID: **R34289** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **4/8/05 6:55:30 PM** Prep Date
Client ID: Run ID: **ORGC8_050408A** SeqNo: **497136**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	547.5	50	500	0	110%	81	126	559	2.03%	15	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

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Chain of Custody

0503661

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone: (707) 443-5054
Copies of Report to: LACO; Chris Watt
Sampler (Sign & Print): SJD

TAT: [ ] 24 Hr [ ] 48 Hr [ ] 5 Day [ ] 5–7 Day
[✓] STD (2–3 Wk) [ ] Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms [ ]
Preliminary: FAX [✓] Verbal [ ] By:
Final Report: FAX [ ] Verbal [ ] By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4629.02
Project Name: HPI - Bulk Plant-AST
Purchase Order Number: task 3020

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: TPHg/BTEX (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd/mo w/SGC (CONTAINER 7, PRESERVATIVE ------)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4629-MW-3-W	3-30-05	AM	GW	3	1	GEOTRACKER
	4629-MW31-W				3	1	
	4629-MW32-W				3	1	
	4629-QCTB-W				1		
							cold intact

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	3-30-05 4:25 pm	R. Thompson	3/30/05 1625

SAMPLE DISPOSAL
[✓] NCL Disposal of Non-Contaminated
[ ] Return [ ] Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

NORTH COAST LABORATORIES LTD.

RECEIVED
LACO ASSOCIATES
MAY 13 2005
BY: JG

May 11, 2005

LACO Associates
P.O. Box 1023
Eureka, CA 95502

DRG
CJW
FRB

Attn: Accounts Payable

Order No.: 0504594
Invoice No.: 50045
PO No.: TASK 3023
ELAP No. 1247-Expires July 2006

RE: 4629.02, HPI-Bulk Plant-AST

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4629-MW-3-W
01D	4629-MW-3-W
02A	4629-MW-9-W
02D	4629-MW-9-W
03A	4629-MW-10-W
03D	4629-MW-10-W
04A	4629-MW-11-W
04D	4629-MW-11-W
05A	4629-MW-14-W
05D	4629-MW-14-W
06A	4629-MW-17s-W
06D	4629-MW-17s-W
07A	4629-MW-17d-W
07D	4629-MW-17d-W
08A	4629-MW-21-W
08D	4629-MW-21-W
09A	4629-MW-7-W
09D	4629-MW-7-W
10A	4629-MW-26-W
10D	4629-MW-26-W
11A	4629-MW-31-W
11D	4629-MW-31-W
12A	4629-MW-32-W
12D	4629-MW-32-W
13A	4629-QCFD
14A	4629-QCMB
15A	4629-QCTB

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s) | QA Unit | Jesse G. Chaney, Jr. Laboratory Director

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CLIENT: LACO Associates
Project: 4629.02, HPI-Bulk Plant-AST
Lab Order: 0504594

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel. The samples showing no detectable levels of the analyte were not subjected to the cleanup procedure.

TPH as Diesel with Silica Gel Cleanup:
The surrogate recoveries for samples 4629-MW-3-W, 4629-MW-9-W, 4629-MW-7-W, 4629-MW-31-W and 4629-MW-32-W were outside of the acceptance limits. The surrogate recoveries for the quality control samples were within the acceptance limits. This indicates that the low surrogate recoveries may be due to matrix effects from the samples.

Samples 4629-MW-3-W, 4629-MW-9-W, 4629-MW-31-W, and 4629-MW-32-W contain some material lighter than diesel. Some of this material extends into the diesel range. These samples also contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

There was an interferent present in the method blank, analyzed on 5/6/05, that was above the reporting limit for diesel. The samples analyzed on 5/6/05 were not affected by the interferent; therefore, the data were accepted.

The relative percent difference's (RPD's) for the laboratory control samples analyzed on 5/10/05 were above the upper acceptance limits for diesel and the surrogate. This indicates that the results could be variable.

TPH as Gasoline:
Samples 4629-MW-9-W and 4629-QCFD do not present a peak pattern consistent with that of gasoline. The reported results represent the amount of material in the gasoline range.

The gasoline values for samples 4629-MW-3-W, 4629-MW-7-W, 4629-MW-31-W and 4629-MW-32-W include the reported gasoline components in addition to other peaks in the gasoline range.

BTEX:
Some reporting limits were raised for samples 4629-MW-3-W, 4629-MW-7-W, 4629-MW-31-W and 4629-MW-32-W due to matrix interference.

The laboratory control sample (LCS) recovery was above the upper acceptance limit for MTBE. The laboratory control sample duplicate (LCSD) recovery was within the acceptance limits; therefore, the data were accepted.

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Date: 11-May-05
WorkOrder: 0504594

ANALYTICAL REPORT

Client Sample ID: 4629-MW-3-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-01A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	20	µg/L	1.0		4/29/05
Benzene	270	25	µg/L	50		4/29/05
Toluene	11	10	µg/L	20		4/29/05
Ethylbenzene	2.7	0.50	µg/L	1.0		4/29/05
m,p-Xylene	4.5	0.50	µg/L	1.0		4/29/05
o-Xylene	ND	2.0	µg/L	1.0		4/29/05
Surrogate: Cis-1,2-Dichloroethylene	99.6	85-115	% Rec	20		4/29/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1,400	50	µg/L	1.0		4/29/05

Client Sample ID: 4629-MW-3-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-01D **Matrix:** Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	71	50	µg/L	1.0	5/3/05	5/10/05
Surrogate: N-Tricosane	25.3	70-130	% Rec	1.0	5/3/05	5/10/05

Client Sample ID: 4629-MW-9-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-02A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/29/05
Benzene	ND	0.50	µg/L	1.0		4/29/05
Toluene	ND	0.50	µg/L	1.0		4/29/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/29/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/29/05
o-Xylene	ND	0.50	µg/L	1.0		4/29/05
Surrogate: Cis-1,2-Dichloroethylene	103	85-115	% Rec	1.0		4/29/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	160	50	µg/L	1.0		4/29/05

Date: 11-May-05
WorkOrder: 0504594

ANALYTICAL REPORT

Client Sample ID: 4629-MW-9-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-02D **Matrix:** Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	69	50	µg/L	1.0	5/3/05	5/10/05
Surrogate: N-Tricosane	58.8	70-130	% Rec	1.0	5/3/05	5/10/05

Client Sample ID: 4629-MW-10-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-03A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/28/05
Benzene	ND	0.50	µg/L	1.0		4/28/05
Toluene	ND	0.50	µg/L	1.0		4/28/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/28/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/28/05
o-Xylene	ND	0.50	µg/L	1.0		4/28/05
Surrogate: Cis-1,2-Dichloroethylene	99.4	85-115	% Rec	1.0		4/28/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		4/28/05

Client Sample ID: 4629-MW-10-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-03D **Matrix:** Groundwater

Test Name: TPH as Diesel **Reference:** EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	4/29/05	4/29/05
Surrogate: N-Tricosane	94.4	70-130	% Rec	1.0	4/29/05	4/29/05

Date: 11-May-05
WorkOrder: 0504594

ANALYTICAL REPORT

Client Sample ID: 4629-MW-11-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-04A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/28/05
Benzene	ND	0.50	µg/L	1.0		4/28/05
Toluene	ND	0.50	µg/L	1.0		4/28/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/28/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/28/05
o-Xylene	ND	0.50	µg/L	1.0		4/28/05
Surrogate: Cis-1,2-Dichloroethylene	102	85-115	% Rec	1.0		4/28/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		4/28/05

Client Sample ID: 4629-MW-11-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-04D **Matrix:** Groundwater

Test Name: TPH as Diesel **Reference:** EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	4/29/05	4/29/05
Surrogate: N-Tricosane	92.6	70-130	% Rec	1.0	4/29/05	4/29/05

Client Sample ID: 4629-MW-14-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-05A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/28/05
Benzene	ND	0.50	µg/L	1.0		4/28/05
Toluene	ND	0.50	µg/L	1.0		4/28/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/28/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/28/05
o-Xylene	ND	0.50	µg/L	1.0		4/28/05
Surrogate: Cis-1,2-Dichloroethylene	109	85-115	% Rec	1.0		4/28/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		4/28/05

Date: 11-May-05
WorkOrder: 0504594

ANALYTICAL REPORT

Client Sample ID: 4629-MW-14-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-05D **Matrix:** Groundwater

Test Name: TPH as Diesel **Reference:** EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	4/29/05	4/29/05
Surrogate: N-Tricosane	89.8	70-130	% Rec	1.0	4/29/05	4/29/05

Client Sample ID: 4629-MW-17s-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-06A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/28/05
Benzene	ND	0.50	µg/L	1.0		4/28/05
Toluene	ND	0.50	µg/L	1.0		4/28/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/28/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/28/05
o-Xylene	ND	0.50	µg/L	1.0		4/28/05
Surrogate: Cis-1,2-Dichloroethylene	111	85-115	% Rec	1.0		4/28/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		4/28/05

Client Sample ID: 4629-MW-17s-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-06D **Matrix:** Groundwater

Test Name: TPH as Diesel **Reference:** EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	4/29/05	4/29/05
Surrogate: N-Tricosane	85.1	70-130	% Rec	1.0	4/29/05	4/29/05

Date: 11-May-05
WorkOrder: 0504594

ANALYTICAL REPORT

Client Sample ID: 4629-MW-17d-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-07A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/29/05
Benzene	ND	0.50	µg/L	1.0		4/29/05
Toluene	ND	0.50	µg/L	1.0		4/29/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/29/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/29/05
o-Xylene	ND	0.50	µg/L	1.0		4/29/05
Surrogate: Cis-1,2-Dichloroethylene	103	85-115	% Rec	1.0		4/29/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		4/29/05

Client Sample ID: 4629-MW-17d-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-07D **Matrix:** Groundwater

Test Name: TPH as Diesel **Reference:** EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	4/29/05	4/29/05
Surrogate: N-Tricosane	89.3	70-130	% Rec	1.0	4/29/05	4/29/05

Client Sample ID: 4629-MW-21-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-08A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/29/05
Benzene	ND	0.50	µg/L	1.0		4/29/05
Toluene	ND	0.50	µg/L	1.0		4/29/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/29/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/29/05
o-Xylene	ND	0.50	µg/L	1.0		4/29/05
Surrogate: Cis-1,2-Dichloroethylene	106	85-115	% Rec	1.0		4/29/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		4/29/05

Date: 11-May-05
WorkOrder: 0504594

ANALYTICAL REPORT

Client Sample ID: 4629-MW-21-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-08D **Matrix:** Groundwater

Test Name: TPH as Diesel **Reference:** EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	4/29/05	4/29/05
Surrogate: N-Tricosane	94.7	70-130	% Rec	1.0	4/29/05	4/29/05

Client Sample ID: 4629-MW-7-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-09A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	18	µg/L	1.0		4/29/05
Benzene	13	5.0	µg/L	10		4/29/05
Toluene	4.9	0.50	µg/L	1.0		4/29/05
Ethylbenzene	2.8	0.50	µg/L	1.0		4/29/05
m,p-Xylene	2.1	0.50	µg/L	1.0		4/29/05
o-Xylene	ND	2.0	µg/L	1.0		4/29/05
Surrogate: Cis-1,2-Dichloroethylene	89.5	85-115	% Rec	10		4/29/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	500	50	µg/L	1.0		4/29/05

Client Sample ID: 4629-MW-7-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-09D **Matrix:** Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/3/05	5/6/05
Surrogate: N-Tricosane	35.4	70-130	% Rec	1.0	5/3/05	5/6/05

Date: 11-May-05
WorkOrder: 0504594

ANALYTICAL REPORT

Client Sample ID: 4629-MW-26-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-10A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/29/05
Benzene	ND	0.50	µg/L	1.0		4/29/05
Toluene	ND	0.50	µg/L	1.0		4/29/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/29/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/29/05
o-Xylene	ND	0.50	µg/L	1.0		4/29/05
Surrogate: Cis-1,2-Dichloroethylene	95.4	85-115	% Rec	1.0		4/29/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		4/29/05

Client Sample ID: 4629-MW-26-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-10D **Matrix:** Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/3/05	5/6/05
Surrogate: N-Tricosane	86.5	70-130	% Rec	1.0	5/3/05	5/6/05

Client Sample ID: 4629-MW-31-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-11A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	7.0	µg/L	1.0		4/29/05
Benzene	270	50	µg/L	100		4/29/05
Toluene	7.9	0.50	µg/L	1.0		4/29/05
Ethylbenzene	ND	5.0	µg/L	1.0		4/29/05
m,p-Xylene	ND	5.0	µg/L	1.0		4/29/05
o-Xylene	ND	5.0	µg/L	1.0		4/29/05
Surrogate: Cis-1,2-Dichloroethylene	111	85-115	% Rec	1.0		4/29/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1,000	50	µg/L	1.0		4/29/05

Date: 11-May-05
WorkOrder: 0504594

ANALYTICAL REPORT

Client Sample ID: 4629-MW-31-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-11D **Matrix:** Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	83	50	µg/L	1.0	5/3/05	5/10/05
Surrogate: N-Tricosane	48.0	70-130	% Rec	1.0	5/3/05	5/10/05

Client Sample ID: 4629-MW-32-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-12A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	20	µg/L	1.0		4/29/05
Benzene	630	50	µg/L	100		4/29/05
Toluene	15	5.0	µg/L	10		4/29/05
Ethylbenzene	ND	12	µg/L	1.0		4/29/05
m,p-Xylene	ND	12	µg/L	1.0		4/29/05
o-Xylene	ND	7.0	µg/L	1.0		4/29/05
Surrogate: Cis-1,2-Dichloroethylene	106	85-115	% Rec	10		4/29/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	2,400	500	µg/L	10		4/29/05

Client Sample ID: 4629-MW-32-W **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-12D **Matrix:** Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	150	50	µg/L	1.0	5/3/05	5/10/05
Surrogate: N-Tricosane	56.2	70-130	% Rec	1.0	5/3/05	5/10/05

Date: 11-May-05
WorkOrder: 0504594

ANALYTICAL REPORT

Client Sample ID: 4629-QCFD **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-13A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/29/05
Benzene	ND	0.50	µg/L	1.0		4/29/05
Toluene	ND	0.50	µg/L	1.0		4/29/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/29/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/29/05
o-Xylene	ND	0.50	µg/L	1.0		4/29/05
Surrogate: Cis-1,2-Dichloroethylene	106	85-115	% Rec	1.0		4/29/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	160	50	µg/L	1.0		4/29/05

Client Sample ID: 4629-QCMB **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-14A **Matrix:** Groundwater

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/28/05
Benzene	ND	0.50	µg/L	1.0		4/28/05
Toluene	ND	0.50	µg/L	1.0		4/28/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/28/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/28/05
o-Xylene	ND	0.50	µg/L	1.0		4/28/05
Surrogate: Cis-1,2-Dichloroethylene	93.1	85-115	% Rec	1.0		4/28/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		4/28/05

Date: 11-May-05
WorkOrder: 0504594

ANALYTICAL REPORT

Client Sample ID: 4629-QCTB **Received:** 4/26/05 **Collected:** 4/26/05 0:00
Lab ID: 0504594-15A **Matrix:** Trip Blank

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/28/05
Benzene	ND	0.50	µg/L	1.0		4/28/05
Toluene	ND	0.50	µg/L	1.0		4/28/05
Ethylbenzene	ND	0.50	µg/L	1.0		4/28/05
m,p-Xylene	ND	0.50	µg/L	1.0		4/28/05
o-Xylene	ND	0.50	µg/L	1.0		4/28/05
Surrogate: Cis-1,2-Dichloroethylene	109	85-115	% Rec	1.0		4/28/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		4/28/05

North Coast Laboratories, Ltd.

Date: 11-May-05

CLIENT: LACO Associates
Work Order: 0504594
Project: 4629.02, HPI-Bulk Plant-AST

QC SUMMARY REPORT

Method Blank

Sample ID **MB-4/28/05** Batch ID: **R34661** Test Code: **BTXEW** Units: **µg/L** Analysis Date **4/28/05 8:20:48 PM** Prep Date
Client ID: Run ID: **ORGC8_050428B** SeqNo: **502449**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	3.0									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									
Cis-1,2-Dichloroethylene	0.932	0.10	1.00	0	93.2%	85	115	0			

Sample ID **MB-13440** Batch ID: **13440** Test Code: **SGTPHDW** Units: **µg/L** Analysis Date **5/6/05 12:12:27 PM** Prep Date **5/3/05**
Client ID: Run ID: **ORGC5_050506A** SeqNo: **504014**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	126.2	50									
N-Tricosane	44.7	0.10	50.0	0	89.5%	70	130	0			

Sample ID **MB-13440** Batch ID: **13440** Test Code: **SGTPHDW** Units: **µg/L** Analysis Date **5/10/05 3:29:57 PM** Prep Date **5/3/05**
Client ID: Run ID: **ORGC5_050510A** SeqNo: **504128**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	41.64	50									J
N-Tricosane	37.3	0.10	50.0	0	74.6%	70	130	0			

Sample ID **MB-4/28/05** Batch ID: **R34660** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **4/28/05 8:20:48 PM** Prep Date
Client ID: Run ID: **ORGC8_050428A** SeqNo: **502427**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	ND	50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates
Work Order: 0504594
Project: 4629.02, HPI-Bulk Plant-AST

QC SUMMARY REPORT

Method Blank

Sample ID **MB-13424** Batch ID: **13424** Test Code: **TPHDIW** Units: **µg/L** Analysis Date **4/29/05 5:41:34 PM** Prep Date **4/29/05**

Client ID: Run ID: **ORGC7_050429A** SeqNo: **502300**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	ND	50									
N-Tricosane	46.5	0.10	50.0	0	93.0%	70	130	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank