LACO ASSOCIATES
ENGINEERS · GEOLOGISTS · ENVIRONMENTAL CONSULTANTS

LEONARD M. OSBORNE · CE 38573
DAVID R. GERVAN · CE 57282
DAVID N. LINDBERG · PG 5581/CEG 1895
FRANK R. BICKNER · PG 7428
RONALD C. CHANEY, Ph.D · CE 29027/GE 00934

April 3, 2006

4629.04

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

Attention: Mr. Cody Walker

Subject: Groundwater Monitoring Report; Fourth Quarter 2005
Former Shell Bulk Plant, Underground Storage Tank Area
400 Eighth Street, Fortuna, California; CRWQCB Case No. 1THU116

Dear Mr. Walker:

LACO ASSOCIATES (LACO) presents to you the results of groundwater monitoring for the fourth quarter of 2005. The fundamentals of this groundwater monitoring report include:

- Summary of work performed;
- Tabular summary of hydraulic heads and gradients;
- Tabular summary of current and historical analytical data;
- Tabular summary of Pay-for-Performance (PFP) Milestone;
- Tabular summary of *In-Situ* Chemical Oxidation (ISCO) treatment injection rates;
- Figures including a site map, location map, and hydraulic gradient directions; and
- Statement of future work.

This report has been prepared for W & S Enviro. Please call (707) 443-5054 if you have any questions or concerns.

Sincerely,
LACO ASSOCIATES

Amy M. Thomson
Staff Geologist

Christopher J. Watt
PG 7586, Exp. 03/31/08

PROFESSIONAL GEOLOGIST
CHRISTOPHER JOHN WATT
No. 7586
Exp.03/31/
STATE OF CALIFORNIA

Attachments

AMT:jg

cc: Jim Seiler, W & S Enviro (electronically sent)

P:\4000\4629 W&S Bulk Plant\submittals\GW Mon Reports\2005\4Q05\4629.03_UST 4Q05GMR.doc

21 W. 4th Street · P.O. Box 1023 · Eureka, California 95502 · 707-443-5054 · 1-800-515-5054 · FAX 707-443-0553
www.lacoassociates.us

GROUNDWATER MONITORING REPORT; FOURTH QUARTER 2005

Former Shell Bulk Plant, Underground Storage Tank Area
400 Eighth Street, Fortuna, California
CRWQCB Case No. 1THU116; LACO Project No. 4629.04

INTRODUCTION

Field activities were conducted on October 24, November 23, December 28, 2005, and January 25, 2006, in accordance with generally accepted practices at this or similar locations. Please refer below to Tables A through D for the current groundwater monitoring regime, and to LACO's *Standard Operating Procedures No. 2,* on file at your office, for details. A location and site map are provided as Figures 1 and 2, respectively.

SITE CHRONOLOGY

- **1993 though 2003**: The monitoring well network was constructed.
- **1996**: Two underground storage tanks (USTs), one 3000-gallon and one 4000-gallon, were removed.
- **November 2000**: 550 cubic yards of petroleum hydrocarbon impacted soil were excavated.
- **August 2002**: 510 cubic yards of petroleum hydrocarbon impacted soil were excavated.
- **May through June 2004**: An ISCO system was installed for remediation of petroleum hydrocarbon impacted soil and groundwater.
- **July 2004 through Present**: ISCO system in operation, injecting ozone and oxygen into the surrounding formations.

MONITORING REGIME

A key to abbreviations is included as Attachment 1, and the field sampling data sheets for this quarter are included as Attachment 2.

Table A: Monitoring Event for October 24, 2005

MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS	SAMPLING SCHEDULE
					INORGANICS	
MW27	5-10	7.36	DHP	---	Dissolved Metals EPA Method 200.7, Bromate	Monthly
MW28	5-10	8.19		---		
MW30	5-10	7.61	Cam Pump	pH, T, ECw, ORP, DO		
MW34	14-18	11.58	DHP			
MW38	12-14	8.11	Cam Pump			
MW43	16-18	8.40				
MW44	12-15	8.02				

Note: Dissolved Metals = Cr_6= Hexavalent Chromium; Mo = Molybdenum; Va = Vanadium; Se = Selenium

Table B: Monitoring Event for November 23, 2005						
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS	SAMPLING SCHEDULE
					ORGANICS	
MW27	5-10	4.38	DHP	pH, T, ECw, ORP, DO	INTRINSICS ONLY	Monthly
MW28	5-10	4.79				
MW30	5-10	4.35	Cam Pump			
MW34	14-18	7.40	DHP			
MW38	12-14	4.96	Cam Pump			
MW43	16-18	4.83				
MW44	12-15	4.48				

Table C: Monitoring Event for December 28, 2005							
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE
					ORGANICS	INORGANICS	
MW1A	5-15	0.42	DHP	pH, T, ECw, ORP, DO	TPHg, TPHd, BTEX, MTBE	---	Quarterly
MW15	4.5-14	1.84	1/2" Bailer	---		---	
MW16	3-14.5	3.14	1/2" Bailer	---		---	
MW19	22.5-25	Well Inaccessable					
MW20	15.5-19.5	Well Inaccessable					
MW23	5-10	0.42	CAM	pH, T, ECw, ORP, DO	TPHg, TPHd, BTEX, MTBE	---	
MW24	5-10	0.49				---	
MW25	5-10	0.80	DHP			---	
MW27	5-10	0.30	CAM			Diss. Cr_6, Se, Va, Mo; Bromate	Monthly
MW28	5-10	0.58					
MW29	5-10	0.44	DHP			---	Quarterly
MW30	5-10	0.43	CAM			Diss. Cr_6, Se, Va, Mo; Bromate	Monthly
MW33	14-17.5	0.61	DHP			---	Quarterly
MW34	14-18	0.80	CAM			Diss. Cr_6, Se, Va, Mo; Bromate	Monthly
MW35	17-20	1.22				---	Quarterly
MW36	13-14.5	1.07				---	
MW37	17.25-19	0.86	DHP			---	
MW38	12-14	0.93				Diss. Cr_6, Se, Va, Mo; Bromate	Monthly
MW39	17.75-19	0.84	CAM			---	Quarterly
MW40	13.25-16	1.01				---	
MW41	16.5-18	1.59				---	
MW42	12-14.5	0.85				---	
MW43	16-18	1.94				Diss. Cr_6, Se, Va, Mo; Bromate	Monthly
MW44	12-15	0.84					
Note: Dissolved Metals = Cr_6= Hexavalent Chromium; Mo = Molybdenum; Va = Vanadium; Se = Selenium							

Table D: Monitoring Event for January 25, 2006						
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS	SAMPLING SCHEDULE
					ORGANICS	
MW27	5-10	2.56	Cam Pump	pH, T, ECw, ORP, DO	INTRINSICS ONLY	Monthly
MW28	5-10	2.22				
MW30	5-10	1.64				
MW34	14-18	4.85				
MW38	12-14	2.59				
MW43	16-18	2.68				
MW44	12-15	2.79				

HYDRAULIC GRADIENT

Hydraulic gradients were calculated from hydraulic head measurements in three different water-bearing units (Unit 1, Unit 2, and Unit 3), utilizing the three-point method with the monitoring wells identified below. Surfer 7.0 software was used, as well as hydraulic head measurements to create potentiometric contours. Hydraulic gradients and potentiometric surfaces calculated for Units 1, 2, and 3 for the December sampling event are presented as Figures 3 through Figure 5, respectively, and historical hydraulic head data are presented in Table 1.

For the December 28, 2005, sampling event, the following hydraulic gradients were determined for Units 1 through Unit 3:

Unit 1- Monitoring Wells MW27, MW28, and MW30 (Figure 3)

- S39°W at 0.01 foot per foot (ft/ft)

Unit 2- Monitoring Wells MW33, MW38, and MW42 (Figure 4)

- S88°W at 0.02 ft/ft

Unit 3- Monitoring Wells MW33, MW37, and MW41 (Figure 5)

- S80°W at 0.02 ft/ft

LABORATORY RESULTS

Laboratory analytical results from the October 24 and December 28, 2005, sampling events for Unit 1, Unit 2, and Unit 3 are included below in Table E and F, respectively. Current and historical groundwater analytical data are included in Table 1, and copies of the laboratory analytical reports for this quarter are included as Attachment 3.

Table E: Laboratory Analytical Results for October 24, 2005									
WELL	**TPHg (µg/L)**	**TPHd (µg/L)**	**TPHmo (µg/L)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Xylenes (µg/L)**	**MTBE (µg/L)**	**Other Analytes (µg/L)**
					UNIT 1				
MW27	Analized for Intrinsic Parameters and Dissolved Metals Only								ND<10-20
MW28									
MW30									
					UNIT 2				
MW34	Analized for Intrinsic Parameters and Dissolved Metals Only								ND<10-20
MW38									
MW44									**Dissloved Vanadium = 12**, all others = ND<10-20
					UNIT 3				
MW34	Analized for Intrinsic Parameters and Dissolved Metals Only								ND<10-20
MW43									**Dissloved Vanadium = 10**, all others = ND<10-20
NOTE: MW33 and MW34 are screened in both Unit 2 and Unit 3									

Table F: Laboratory Analytical Results for December 28, 2005									
WELL	**TPHg (µg/L)**	**TPHd (µg/L)**	**TPHmo (µg/L)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Xylenes (µg/L)**	**MTBE (µg/L)**	**Other Analytes (µg/L)**
					UNIT 1				
MW1A	ND<50	ND<50	---	**0.66**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW15	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW16	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW23	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW24	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW25	**160**	**55**	---	ND<0.50	ND<3.5	ND<0.50	ND<0.50	ND<3.0	---
MW27	ND<50	ND<50	---	**0.94**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	ND<10-20
MW28	**86**	**56**	---	**2.6**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	ND<10-20
MW29	ND<50	**160**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW30	**5,600**	**230**	---	**3,300**	**24**	**23**	**96**	ND<30	ND<10-50
NOTE: MW1A, MW15, and MW16 are screened in both Unit 1 and Unit 2									

Table F Cont'd: Laboratory Analytical Results December 28, 2005									
WELL	**TPHg (µg/L)**	**TPHd (µg/L)**	**TPHmo (µg/L)**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Xylenes (µg/L)**	**MTBE (µg/L)**	**Other Analytes (µg/L)**
					UNIT 2				
MW1A	ND<50	ND<50	---	**0.66**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW15	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW16	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW33	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW34	**5,100**	**420**	---	**79**	**28**	**67**	**111**	ND<100	ND<10-20
MW36	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.7**	---
MW38	**300**	**75**	---	**63**	**2.0**	**2.0**	**2.09**	**12**	ND<10-50
MW40	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**6.5**	---
MW42	ND<50	**54**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**3.9**	---
MW44	**1,800**	**67**	---	**740**	**3.8**	**9.4**	**5.2**	ND<40	**Dissolved Vanadium=10** all others = ND<10-50
NOTE: MW33 and MW34 are screened in both Unit 2 and Unit 3									
					UNIT 3				
MW19	Well Inaccessable								
MW20	Well Inaccessable								
MW33	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---
MW34	**5,100**	**420**	---	**79**	**28**	**67**	**111**	ND<100	ND<10-20
MW35	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**8.5**	---
MW37	ND<50	**58**	---	**0.56**	ND<0.50	ND<0.50	ND<0.50	**4.8**	---
MW39	ND<50	**52**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**11**	---
MW41	ND<50	**67**	---	**0.52**	ND<0.50	ND<0.50	ND<0.50	**3.9**	---
MW43	**500**	**53**	---	**68**	**0.71**	**2.8**	**1.71**	ND<50	C_6 = NQ , ND<10-50
NOTE: MW33 and MW34 are screened in both Unit 2 and Unit 3									
ND = Non-Detect NQ = Not Quantifiable									

DISCUSSION OF GROUNDWATER RESULTS

The Total Petroleum Hydrocarbons as gasoline (TPHg) concentration has decreased to below detection limits in monitoring wells MW1A, MW16, MW27, and MW42 since December 2004, and has decreased by two orders of magnitude in monitoring wells MW27 and MW28. Dissolved vanadium was detected in samples collected from monitoring wells MW43 and MW44 at 10 and 12 µg/L, respectively, which is above the California State Action Level for Drinking Water of 0.05 µg/L (Department of Health Services). Currently, there is no maximum contaminant level established for vanadium in the state of California; however, the Superfund Removal Action Level is 250 µg/L.

In order to further analyze the detection of dissolved vanadium, an Eh-pH diagram has been created (Chart 1). To obtain the y-axis (Eh), oxidation reduction potential (ORP) measured in

millivolts from the December 28, 2005, sampling event was converted to Eh (a measure of intensity for chemical reactions in aqueous solution) where 1Eh=1mV or 0.001V. LACO's ORP measuring device does not take into account the Standard Hydrogen Electrode (SHE). SHE is the standard from which all oxidation/reduction potential are determined. In order that SHE be considered, 199mV is added to the ORP values, then converted to volts. The y-axis represents pH values measured for the specific monitoring wells.

Throughout the site, the average Eh is approximately 0.20 V, and the average pH is approximately 6.9. Vanadium was detected at this site when pH levels were between 6.4 and 7.5, and when ORP measurements were between -47 and -88 mV (Eh 0.152 and 0.111V). It appears when pH decreases below 6.5, and ORP is between 0.129-0.152 V, dissolved vanadium is formed (as detected in monitoring wells MW43 and MW44). As for the other dissolved metals, should they occur, dissolved selenium would be detected at the sites average Eh of 0.20 V should the average pH reach 7.0, dissolved chromium would be detected at the sites average Eh of 0.02 V should the average pH decrease below 4.0, and dissolved molybdenum would be detected at the sites average Eh of 0.02 V should the average pH decrease to between 1.0 and 6.0. Additional evidence is needed to support these predictions; therefore, LACO suggests continued sampling for these dissolved metals.

Analytical results from sampling performed during this quarter indicate that the sum of benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations exceeded the achievement of the 75 percent milestone goal for reduction in BTEX concentrations from baseline levels in key PFP monitoring wells MW27, MW28, MW30, and MW44. Table G, below, summarizes the baseline concentrations of TPHg, BTEX, and methyl tertiary butyl ether (MTBE) as well as laboratory analytical results from sampling performed in key PFP monitoring wells MW27, MW28, MW30, and MW44 for the period of July 2004 through January 2006.

TABLE H: PAY-FOR-PEFORMANCE MILESTONE ACHIEVEMENT									
Well ID/ DATE		TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	% BTEX Reduction
Target		**500**	**250**	**42**	**29**	**17**	**338**	**13**	
MW27	Baseline	8600	3500	26	81	23.6	3631	NA	
MW28	Baseline	16000	6100	35	83	28.4	6246.4	NA	
MW30	Baseline	22000	7700	150	900	481	9231	NA	
MW44	Baseline	4800	3000	10	26	6.8	3042.8	NA	
Sum COC			20300	221	1090	539.8	22151		
MW27	7/20/2004	2700	810	17	12	5.0	844	ND<3.0	
MW28	7/20/2004	10000	4800	28	31	15	4874	ND<30	
MW30	7/20/2004	31000	9400	230	840	437	10907	ND<300	
MW44	7/20/2004	12000	6500	22	27	14.6	6563.6	ND<60	
Sum COC			21510	297	910	472	23189		**-5%**
MW27	8/24/2004	3700	960	17	24	7.2	1008	ND<30	
MW28	8/24/2004	15000	6100	43	46	21	6210	ND<100	
MW30	8/24/2004	33000	10000	190	630	273	11093	ND<300	
MW44	8/24/2004	2700	2100	5.0	5.0	5.0	2115	ND<70	
Sum COC			19160	255	705	306	20426		**8%**
MW27	9/23/2004	2000	280	15	11	6.0	312	ND<40	
MW28	9/23/2004	9400	4700	34	40	18	4792	ND<80	
MW30	9/23/2004	20000	6200	150	470	576	7396	ND<300	
MW44	9/23/2004	8800	4600	14	32	13.1	4659.1	ND<60	
Sum COC			15780	213	553	613	17159		**24%**
MW27	10/21/2004	1100	170	8.2	16	6.0	200.2	10	
MW28	10/21/2004	130	53	0.50	0.90	0.61	55.01	ND<3.0	
MW30	10/21/2004	31000	9100	300	1400	870	11670	ND<300	
MW44	10/21/2004	3500	1600	4.7	3.7	6.8	1615.2	ND<40	
Sum COC			10923	313	1421	883	13540		**41%**
MW27	11/16/2004	1100	150	14	8.7	5.1	177.8	ND<25	
MW28	11/16/2004	980	500	3.6	4.4	3.2	511.2	ND<13	
MW30	11/16/2004	30000	9200	320	2000	930	12450	ND<300	
MW44	11/16/2004	3100	1700	6.6	8.4	9.6	1724.6	ND<60	
Sum COC			11550	344	2022	948	14864		**35%**
MW27	12/14/2004	1100	170	8.2	14	3.2	195.4	ND<20	
MW28	12/14/2004	1000	350	5.1	7.0	3.8	365.9	ND<20	
MW30	12/14/2004	26000	7300	270	1300	810	9680	ND<300	
MW44	12/14/2004	3000	1400	4.7	5.6	6.5	1416.8	ND<40	
Sum COC			9220	288	1327	824	11658		**50%**
MW27	1/11/2005	1300	310	7.6	9.9	6.0	333.5	ND<25	
MW28	1/11/2005	760	150	4.9	7.6	3.3	165.8	ND<20	
MW30	1/11/2005	25000	8100	310	1200	920	10530	ND<300	
MW44	1/11/2005	4000	2200	7.1	1.6	9.0	2217.7	ND<80	
Sum COC			10760	330	1219	938	13247		**43%**

TABLE H (continued): PAY-FOR-PEFORMANCE MILESTONE ACHIEVEMENT									
Well ID/ DATE		TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	% BTEX Reduction
MW27	2/15/2005	990	60	10	7.4	5.0	82.4	ND<20	
MW28	2/15/2005	640	94	3.3	6.2	2.4	105.9	ND<15	
MW30	2/15/2005	22000	6100	200	890	670	7860	ND<300	
MW44	2/15/2005	2900	1400	4.8	2.3	6.0	1413.1	ND<50	
Sum COC			7654	218	906	683	9461		**61%**
MW27	3/30/2005	1300	300	7.9	6.8	3.5	318.2	ND<30	
MW28	3/30/2005	780	100	4.2	8.5	1.7	114.4	ND<20	
MW30	3/30/2005	18000	5600	180	800	590	7170	ND<300	
MW44	3/30/2005	3600	1800	6.7	4.3	7.1	1818.1	ND<70	
Sum COC			7800	199	820	602	9421		**61%**
MW27	4/27/2005	1100	250	5.7	8.2	2.5	266.4	ND<20	
MW28	4/27/2005	620	58	2.9	6.7	0.84	68.44	ND<10	
MW30	4/27/2005	19000	4500	180	680	532	5892	ND<300	
MW44	4/27/2005	4500	2300	9.8	8.5	8.3	2326.6	ND<50	
Sum COC			7108	198	703	543.6	8553.4		**65%**
MW27	5/24/2005	820	280	4.9	6.1	2.06	293.1	ND<20	
MW28	5/24/2005	570	93	3.4	8.6	2.3	107.3	ND<10	
MW30	5/24/2005	12,000	3,100	150	530	400	4180.0	ND<300	
MW44	5/24/2005	4,800	2,900	13	13	10.6	2936.6	ND<60	
Sum COC			6373	171.3	557.7	414.96	7516.96		**70%**
MW27	6/20/2005	500	56	5	2.6	2.38	65.98	ND<7	
MW28	6/20/2005	430	48	3	4.2	2	57.2	ND<80	
MW30	6/20/2005	14000	3900	150	570	463	5083	ND<150	
MW44	6/20/2005	6800	3900	15	12	11.4	3938.4	ND<50	
Sum COC			7904	173	589	478.8	9144.6		**63%**
MW27	9/29/2005	880	12	10	8.3	4.5	34.8	ND<10	
MW28	9/29/2005	210	23	0.74	1.4	0.62	25.76	ND<3.0	
MW30	9/29/2005	4700	1900	31	51	46	2028	ND<30	
MW44	9/29/2005	5600	2800	14	24	12.5	2850.5	ND<50	
Sum COC			4735	56	85	63.6	4939.1		**83%**
MW27	12/29/2005	ND<50	0.94	0.5	0.5	0.5	2.44	ND<3.0	
MW28	12/29/2005	86	2.6	0.5	0.5	0.5	4.1	ND<3.0	
MW30	12/29/2005	5600	3300	24	23	106	3453	ND<30	
MW44	12/29/2005	1800	740	3.8	9.4	5.2	758.4	ND<40	
Sum COC			4043.54	29	33	112.2	4217.9		**86%**

BTEX results reported as non-detectable (ND) were included at the value for the minimum detection limit.

The 25% through 75% milestones are reached based on the sum of BTEX concentrations for all key wells. For the 100% milestone, each individual well must meet the PARG.

IN-SITU CHEMICAL OXIDATION REMEDIATION SYSTEM

As of January 19, 2006, approximately 28,962 kilowatt-hours (Kwh) of electricity have been used to operate the remediation system. Field forms for system checks that occurred between

October 25, 2005, and January 19, 2006, are included as Attachment 4. Table 2 presents the injection totals for oxygen into Unit 1, and injection totals for ozone into Units 2 and 3. Since remediation began, approximately 17,825.68 kilograms (kg) of oxygen have been injected into Unit 1, and approximately 11.12 kg of ozone has been injected into Units 2 and 3 combined. LACO shall continue with the weekly to bi-monthly system checks and quarterly sampling of monitoring wells.

GROUNDWATER INTRINSICS

Monitoring wells MW1A, MW23, MW24, MW25, MW27 through MW30, and MW33 through MW44 were monitored for field intrinsic bioremediation indicators dissolved oxygen (DO) and ORP (Table 3). A concentration of DO greater than 2.0 mg/L and an ORP voltage of 50 mV or greater is an indication of aerobic conditions, while values less than these are an indication of anaerobic conditions. For the period of October 2005 to January 2006, water quality parameters monitored in the field indicate that anaerobic conditions exist throughout the majority of the site.

Unit 1

DO and ORP readings for monitoring wells screened within Unit 1 (5 to 10 feet below ground surface [bgs]) indicate mostly anaerobic conditions exist, save for monitoring wells MW23 and MW29 where aerobic conditions are present. DO and ORP readings for monitoring well MW24 indicate that oxidizing and aerobic conditions (DO=5.62 mg/L and ORP=15 mV) exist in this area of Unit 1.

Unit 2

All monitoring wells screened within Unit 2 (12 to 16 feet bgs) indicate anaerobic conditions, with the exception of monitoring well MW40 which indicates that reducing and anaerobic conditions (DO=0.23 mg/L and ORP=64 mV) exist in this area of Unit 2.

Unit 3

All monitoring wells screened within Unit 3 (16 to 20 feet bgs) indicate anaerobic conditions, with the exception of monitoring well MW37 which indicates that that reducing and anaerobic conditions (DO=0.52 mg/L and ORP=113 mV) exist in this area of Unit 3.

FUTURE WORK

- Monthly monitoring of key and perimeter PFP monitoring wells will continue.
- LACO is currently evaluating the effectiveness of the ISCO remediation system, and will

- LACO is currently evaluating the effectiveness of the ISCO remediation system, and will present the data in the following groundwater monitoring report.

LIMITATIONS

LACO has exercised a standard of care equal to that generated for this industry to ensure that the information contained in this report is current and accurate. LACO disclaims any and all liability for any errors, omissions, or inaccuracies in the information and data presented in this report and/or any consequences arising there from, whether attributable to inadvertence or otherwise. LACO makes no representations or warranties of any kind including, but not limited to, any implied warranties with respect to the accuracy or interpretations of the data furnished. LACO assumes no responsibility of any third party reliance on the data presented and that data generated for this report represents information gathered at that time and at the indicated locations. It should not be utilized by any third party to represent data for any other time or location. This report is valid solely for the purpose, site, and project described in this document. Any alteration, unauthorized distribution, or deviation from this description will invalidate this report.

LIST OF FIGURES, TABLES, CHARTS, AND ATTACHMENTS

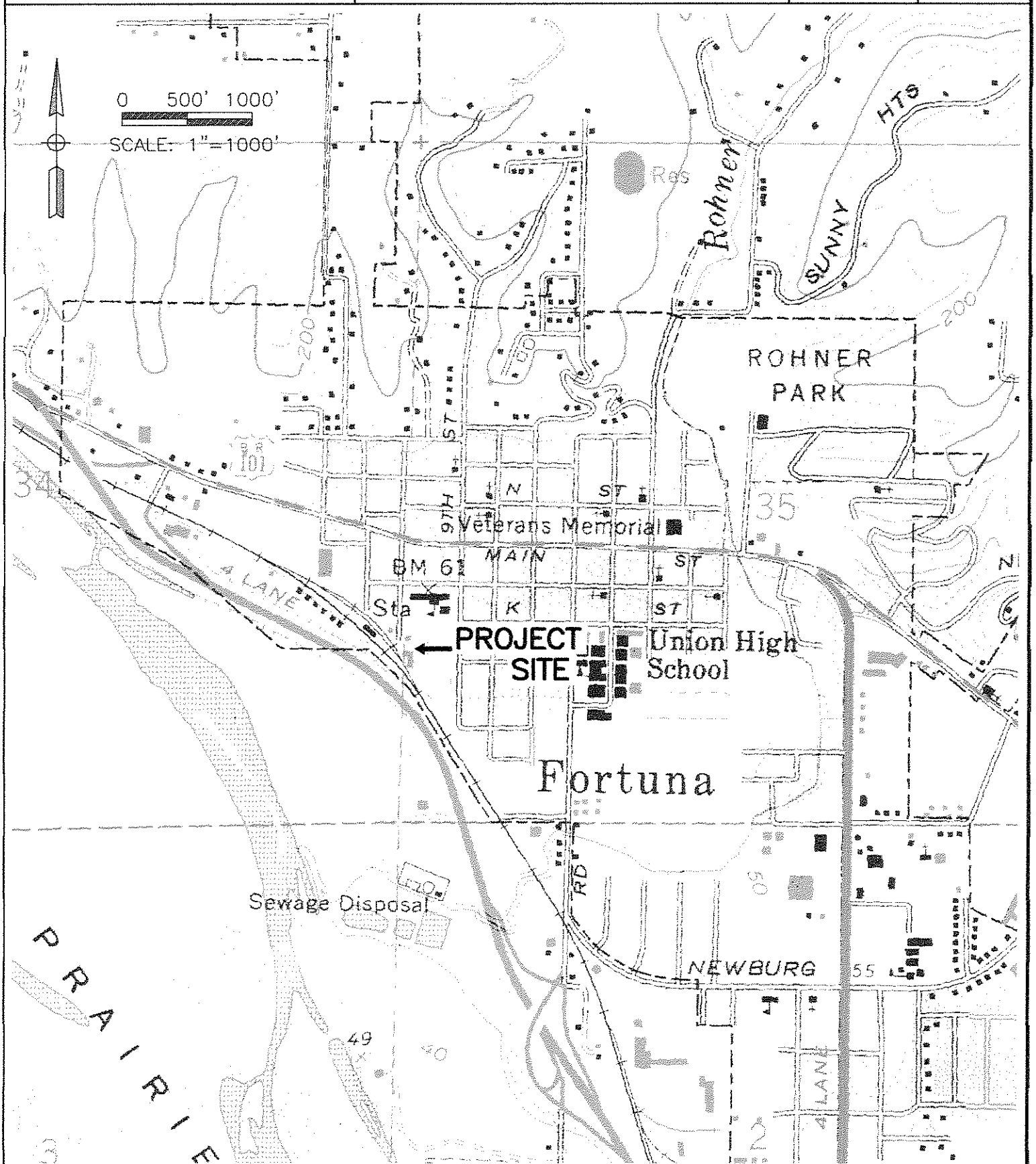
Figure 1: Location Map
Figure 2: Site Map
Figure 3: Hydraulic Gradient Map in Unit 1 (12/28/05)
Figure 4: Hydraulic Gradient Map in Unit 2 (12/28/05)
Figure 5: Hydraulic Gradient Map in Unit 3 (12/28/05)

Table 1: Well Data and Groundwater Analytical Results
Table 2: Ozone and Oxygen Injection Records
Table 3: Field Intrinsic Indicator Results (DO and ORP)

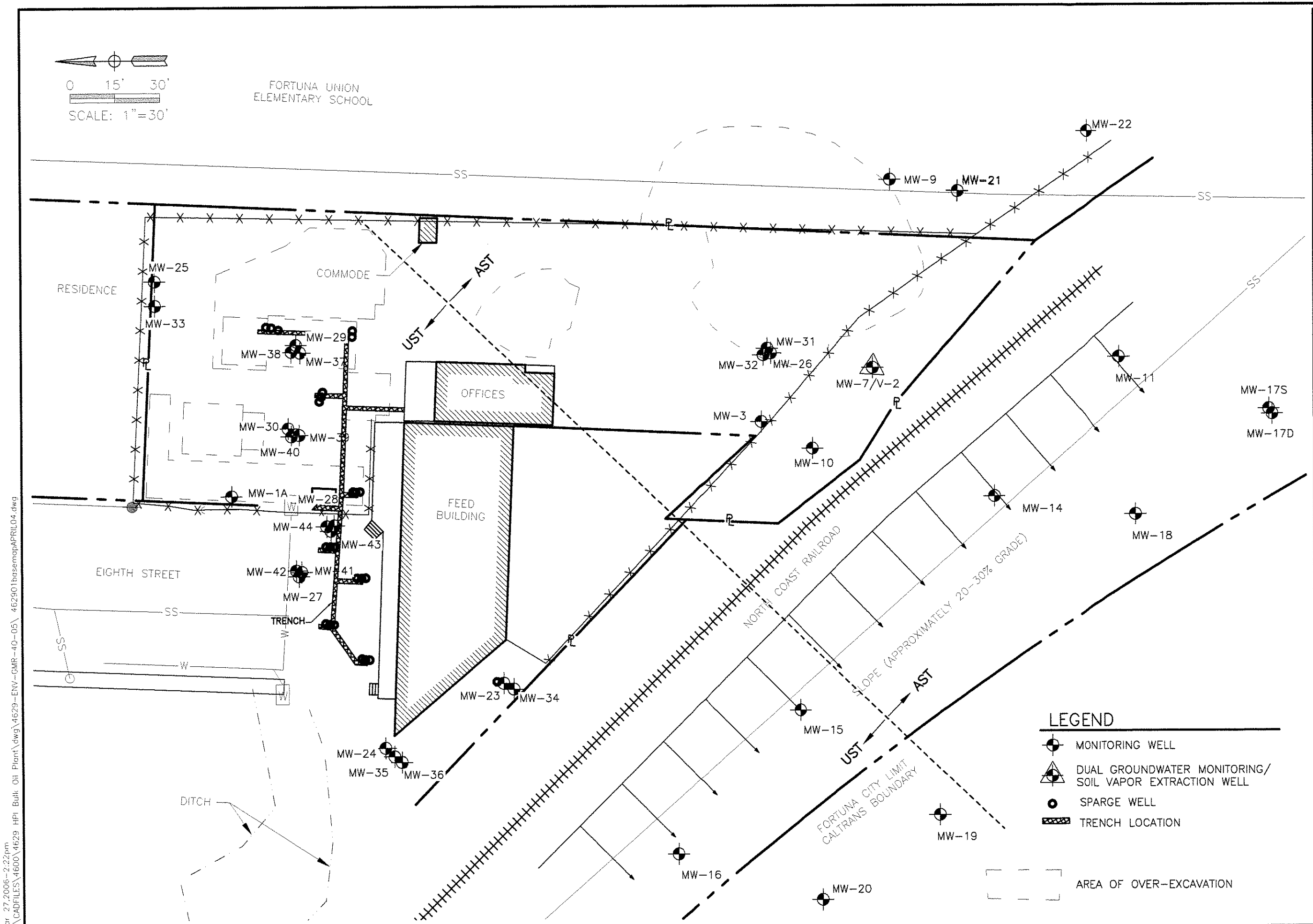
Chart 1: Vanadium Phase Diagram

Attachment 1: Key to Abbreviations
Attachment 2: Groundwater Sampling Field Data Sheets
Attachment 3: Laboratory Analytical Reports
Attachment 4: ISCO Operation and Maintenance: Field Data Sheets

LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
	CLIENT	W & S ENVIRO	DATE	3/27/06	1
	LOCATION	FORMER BULK PLANT, FORTUNA, CA	CHECK		JOB NO.
		LOCATION MAP	SCALE	1"=1000'	4629.04



Mar 30,2006-3:02pm
T:\CADFILES\4600\4629 HPI Bulk Oil Plant\dwg\4629-ENV-GMR-40-05\ 4629-LOC.dwg



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

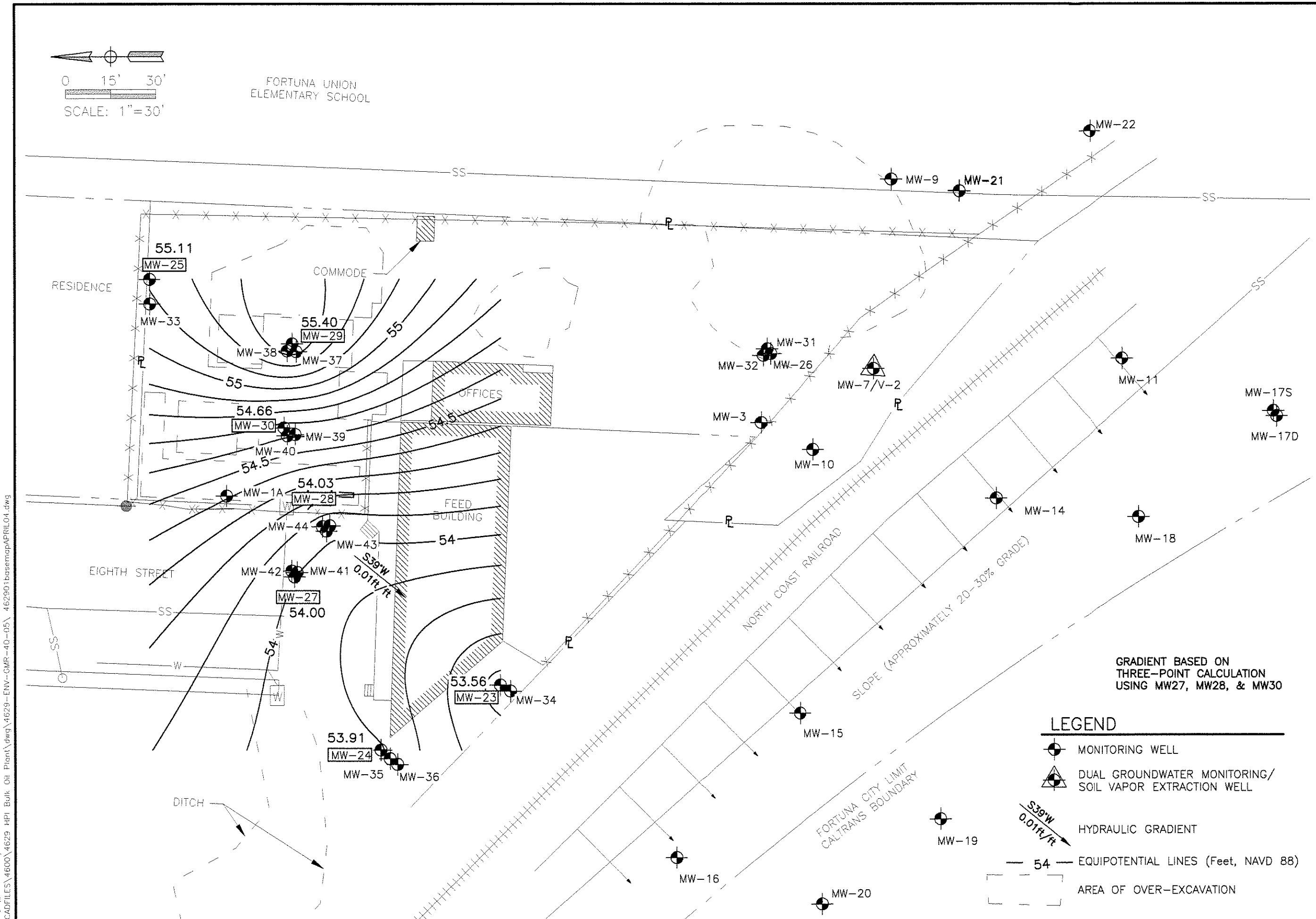
NO.	REVISION	BY	CHK	DATE

GROUNDWATER MONITORING REPORT - UST AREA
SITE MAP

W & S ENVIRO
FORMER BULK PLANT, FORTUNA, CA

SCALE	1"=30'
DRAWN	RJM
CHECK	AMT
APPVD	
DATE	3/27/06
JOB NO.	4629.04
FIGURE	2

Mar 27,2006-2:22pm
T:\CADFILES\4600\4629 HPI Bulk Oil Plant\dwg\4629-ENV-GMR-4Q-05\ 462901basemapAPRIL04.dwg



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

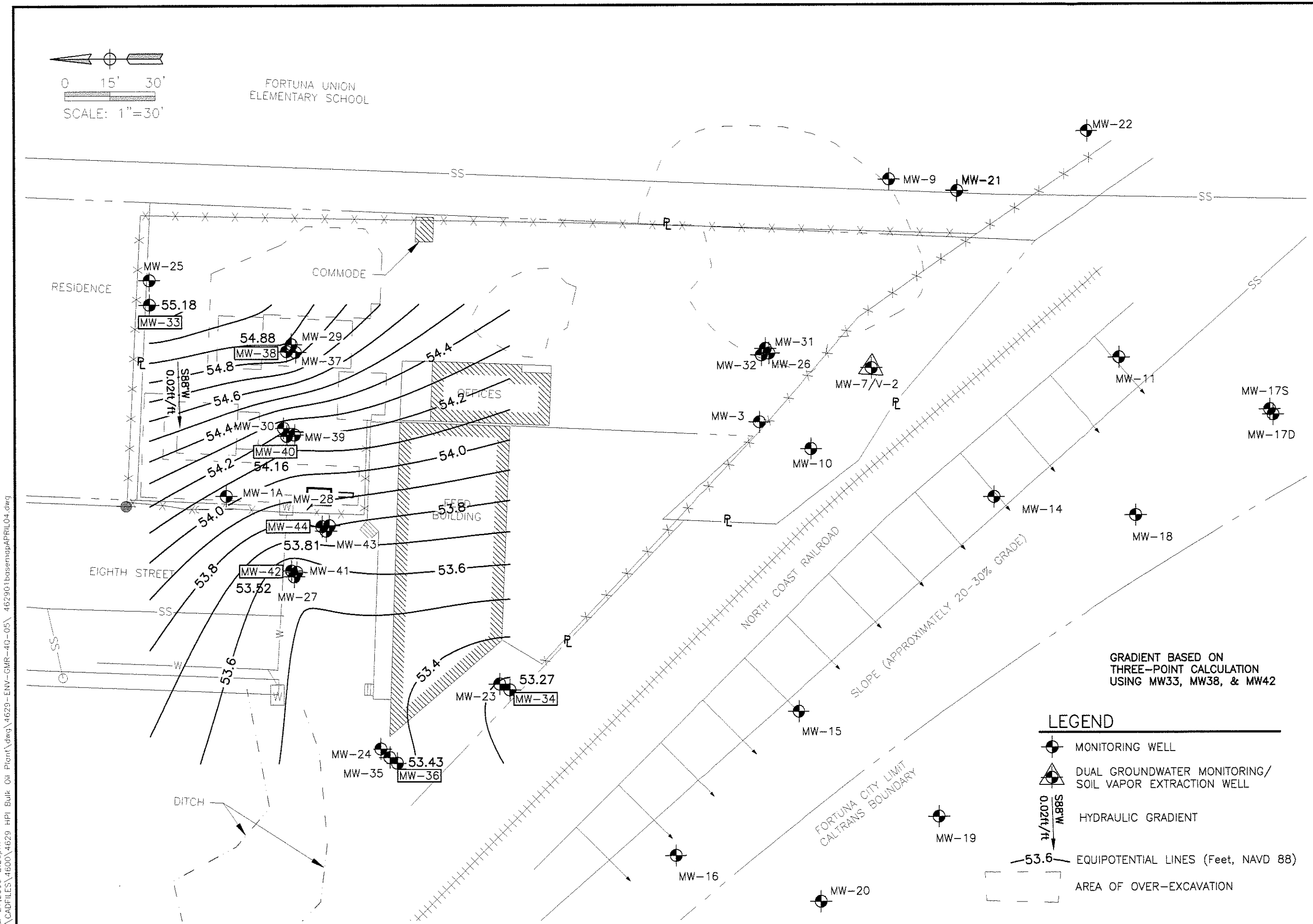
NO.	REVISION	BY	CHK	DATE

GROUNDWATER MONITORING REPORT - UST AREA
HYDRAULIC GRADIENT MAP IN UNIT 1 (12/28/05)

W & S ENVIRO
FORMER BULK PLANT, FORTUNA, CA

SCALE	1"=30'
DRAWN	RJM
CHECK	AMT
APPVD	
DATE	3/27/06
JOB NO.	4629.04
FIGURE	3

Mar 27,2006-2:24pm
T:\CADFILES\4600\4629 HPI Bulk Oil Plant\dwg\4629-ENV-GMR-4Q-05\ 462901basemapAPRIL04.dwg



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

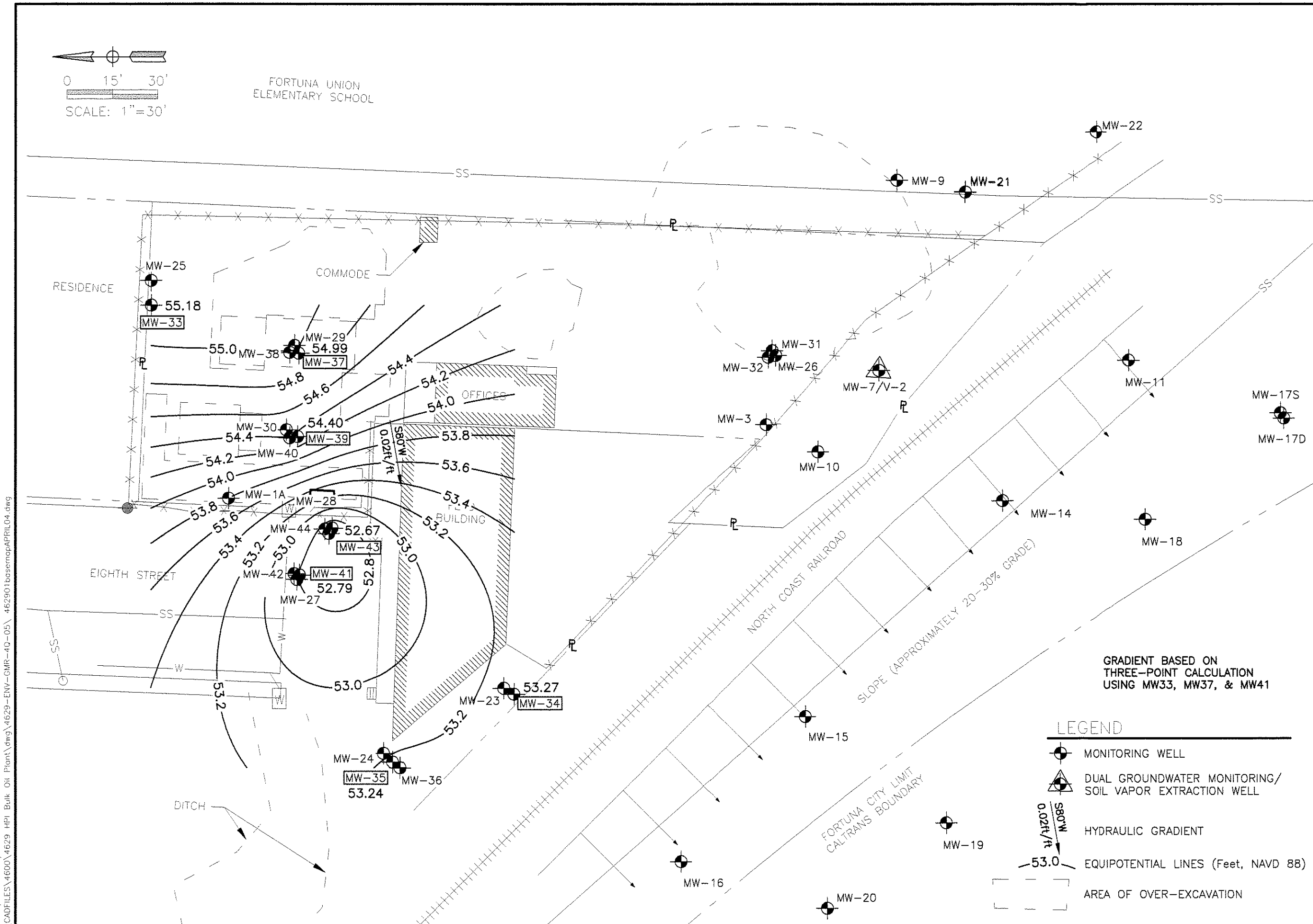
NO.	REVISION	BY	CHK	DATE

GROUNDWATER MONITORING REPORT - UST AREA
HYDRAULIC GRADIENT MAP IN UNIT 2 (12/28/05)

W & S ENVIRO
FORMER BULK PLANT, FORTUNA, CA

SCALE	1"=30'
DRAWN	RJM
CHECK	AMT
APPVD	
DATE	3/27/06
JOB NO.	4629.04
FIGURE	4

Mar 27,2006-2:26pm
T:\CADFILES\4600\4629 HPI Bulk Oil Plant\dwg\4629-ENV-GMR-4Q-05\ 4629011basemapAPRIL04.dwg



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

NO.	REVISION	BY	CHK	DATE

GROUNDWATER MONITORING REPORT - UST AREA
HYDRAULIC GRADIENT MAP IN UNIT 3 (12/28/05)

W & S ENVIRO
FORMER BULK PLANT, FORTUNA, CA

SCALE	1"=30'
DRAWN	RJM
CHECK	AMT
APPVD	
DATE	3/27/06
JOB NO.	4629.04
FIGURE	5

Mar 27,2006-2:27pm
T:\CADFILES\4600\4629 HPI Bulk Oil Plant\dwg\4629-ENV-GMR-4Q-05\ 4629Q1basemapAPRIL04.dwg

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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													
	10/7/1993		46.27	4.60	4,500	560	ND <500	---	2,000	110	ND	195	---	---	---
	11/11/1993		43.55	7.32	---	---	---	---	---	---	---	---	---	---	---
	12/29/1993		48.20	2.67	---	---	---	---	---	---	---	---	---	---	---
	1/24/1994		49.75	1.12	16,000	1,300	ND <500	---	5,300	270	120	490	---	---	---
	2/24/1994		50.19	0.68	---	---	---	---	---	---	---	---	---	---	---
	3/28/1994		49.34	1.53	---	---	---	---	---	---	---	---	---	---	---
	4/25/1994		49.36	1.51	14,000	5,500	---	ND	5,500	64	ND	150	---	---	---
	5/12/1994		48.84	2.03	---	---	---	---	---	---	---	---	---	---	---
	6/3/1994		48.13	2.74	---	---	---	---	---	---	---	---	---	---	---
	7/19/1994		45.78	5.09	0.02	feet free product									---
	9/21/1994		43.07	7.80	---	---	---	---	---	---	---	---	---	---	---
	10/25/1994		42.05	8.82	---	---	---	---	---	---	---	---	---	---	---
	11/16/1994		47.71	3.16	---	---	---	---	---	---	---	---	---	---	---
	12/8/1994		48.63	2.24	---	---	---	---	---	---	---	---	---	---	---
	1/9/1995		50.07	0.80	15,000	390,000	---	310	3,100	180	330	800	---	---	5.0
	2/7/1995		50.59	0.28	---	---	---	---	---	---	---	---	---	---	---
	3/7/1995		49.75	1.12	---	---	---	---	---	---	---	---	---	---	---
	4/5/1995		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	---	---	---
	6/23/1995		48.41	2.46	---	---	---	---	---	---	---	---	---	---	---
	7/5/1995		47.39	3.48	17,000	23,000	---	8.1	6,800	510	190	610	---	---	3.0
	8/3/1995		46.55	4.32	---	---	---	---	---	---	---	---	---	---	---
	9/6/1995		46.06	4.81	---	---	---	---	---	---	---	---	---	---	---
	10/9/1995		46.36	4.51	5,800	8,100	---	ND	2,100	48	100	150	---	---	1.5
	11/16/1995		46.89	3.98	---	---	---	---	---	---	---	---	---	---	---
	1/16/1996		49.90	0.97	20,000	25,000	---	23	7,100	400	380	940	---	---	2.0
	4/23/1996		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	---	---	---
	7/10/1996		48.17	2.70	11,000	13,000	---	ND	4,700	160	290	510	---	---	3.0
	10/22/1996		46.59	4.28	12,000	8,800	---	1.8	3,800	110	160	280	---	---	3.0
	1/21/1997		50.17	0.70	15,000	9,100	---	4.7	4,800	180	220	550	ND	---	4.0
	4/15/1997		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	---	---
	5/20/1997		48.82	2.05	---	---	---	---	---	---	---	---	---	---	---
	7/29/1997		46.92	3.95	11,000	21,000	---	---	3,300	68	150	220	ND	---	3.0
	10/15/1997		47.12	3.75	13,000	11,000	---	1.8	5,500	140	120	380	250	---	4.0
	1/20/1998		50.67	0.20	2,600	5,300	---	ND	880	24	30	78	ND	---	3.0
	1/20/98 (D)		50.87		2,700	1,900	---	---	780	ND	ND	69	ND	---	---
	4/15/1998		50.07	0.80	12,000	8,000	---	50.0	3,400	93	210	380	ND	---	3.8
	7/28/1998		46.67	4.20	7,300	5,500	---	5.7	1,700	53	120	190	ND <2.5	---	2.6
	1/26/2000		50.04	0.83	14,000	10,000	1,900	---	3,300	100	70	252	---	---	---
						6,300 w/silica gel cleanup	*700 w/silica gel cleanup*								

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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															
	5/3/2000		49.60	1.27	**3,700**	**3,200**	**190**	---	**1,100**	**62**	**110**	**169**	ND<100	---	---
	8/3/2000		45.62	5.25	**11,000**	**7,600**	**340**	---	**2,700**	**79**	**72**	**158**	ND<150		1.7
	10/11/2000		44.39	6.48	**9,900**	**6,200**	**360**	---	**3,400**	**61**	**69**	**178**	ND<10	---	---
	11/14/2000		well destroyed												
MW-1A		51.08													
	2/1/2001		well reinstalled												
	2/14/2001		46.54	4.33	**500**	**210**	ND<170	---	**77**	**3.1**	**1.3**	**5.0**	ND<1.0	ND<2.5-50	---
	4/12/2001		49.30	1.78	**900**	***200 w/ sgc***	ND< 170	---	**110**	**4.3**	**3.9**	**5.1**	ND<1.0	ND<1-50	1
	7/10/2001		46.19	4.89	**1,400**	**680**	ND<170	---	**41**	**4.0**	**5.1**	**3.5**	ND<1.0	ND<1-20	0.5
	11/1/2001		45.70	5.38	**200**	ND<50	ND<170	---	**15**	**0.71**	**0.64**	**1.2**	ND<1.0	ND<1-20	---
	12/10/2001		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
	3/28/2002		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
	6/27/2002		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
	9/11/2002		44.17	6.91	**190**	ND<50	ND<170	---	**17**	ND<0.50	**0.52**	**0.68**	ND<1.0	ND<1-20	---
	1/31/2003		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
	3/26/2003		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
	6/19/2003		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
	9/24/2003		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
	12/18/2003		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
	3/23/2004		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
	6/29/2004		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
	9/23/2004		43.23	7.85	**310**	ND<50	---	---	**28**	ND<2.0	ND<0.50	**0.51**	ND<15	---	0.27
	12/14/2004		49.58	1.50	**250**	ND<50	---	---	**12**	ND<1.0	ND<0.50	ND<0.50	ND<13	**Iron = 690**	---
	4/27/2005		49.41	1.67	**170**	ND<50	---	---	**3.2**	ND<1.5	ND<0.50	ND<0.50	ND<3.0	---	0.38
	6/20/2005		50.00	1.08	**72**	ND<50	---	---	**0.98**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.35
	9/29/2005		43.94	7.14	**280**	**51**	---	---	**2.6**	ND<3.0	ND<0.50	**0.88**	ND<3.0	---	---
	12/28/2005		50.66	0.42	ND<50	ND<50	---	---	**0.66**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.44
MW-2		51.86													
	10/7/1993		42.20	9.66	**11,000**	**870**	ND <500	---	**4,200**	**55**	ND <10	**19**	---	Tannin/Lignin = 20	---
	11/11/1993		42.58	9.28	---	---	---	---	---	---	---	---	---	---	---
	12/29/1993		46.65	5.21	---	---	---	---	---	---	---	---	---	---	---
	1/24/1994		51.65	0.21	**12,000**	**1,500**	ND <500	---	**3,800**	**68**	**82**	**243**	---	---	---
	2/24/1994		51.31	0.55	---	---	---	---	---	---	---	---	---	---	---
	3/28/1994		50.03	1.83	---	---	---	---	---	---	---	---	---	---	---
	4/25/1994		50.50	1.36	**22,000**	**6,500**	---	ND	**6,800**	**99**	**210**	**420**	---	Tannin/Lignin = 74	---
	5/12/1994		47.82	4.04	---	---	---	---	---	---	---	---	---	---	---
	6/3/1994		46.78	5.08	---	---	---	---	---	---	---	---	---	---	---
	7/19/1994		44.68	7.18	**16,000**	**8,600**	---	3,500	**4,400**	**120**	**160**	**300**	---	Tannin/Lignin: ND	3.2
	9/21/1994		42.26	9.60	---	---	---	---	---	---	---	---	---	---	---
	10/25/1994		40.99	10.87	**17,000**	**3,400**	---	ND	**6,400**	ND	**120**	**190**	---	Tannin/Lignin = 83	2.0
	11/16/1994		45.85	6.01	---	---	---	---	---	---	---	---	---	---	---
	12/8/1994		48.17	3.69	---	---	---	---	---	---	---	---	---	---	---
	1/9/1995		51.81	0.05	**13,000**	**7,500**	---	ND	**3,200**	**75**	**160**	**890**	---	Tannin/Lignin = 55	3.0
	2/7/1995		50.77	1.09	---	---	---	---	---	---	---	---	---	---	---
	3/7/1995		50.35	1.51	---	---	---	---	---	---	---	---	---	---	---
	4/5/1995		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. 4629.02/04, CRWQCB Case No. 1THU116

WELL/ Date	Sample	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															
	6/23/1995		46.93	4.93	---	---	---	---	---	---	---	---	---	---	---
	7/5/1995		45.91	5.95	19,000	11,000	---	ND	6,400	140	330	1,100	---	Tannin/Lignin = 120	3.5
	8/3/1995		44.79	7.07	---	---	---	---	---	---	---	---	---	---	---
	9/6/1995		43.83	8.03	---	---	---	---	---	---	---	---	---	---	---
	10/9/1995		42.99	8.87	14,000	8,800	---	ND	7,000	140	230	470	---	Tannin/Lignin = 83	2.0
	11/16/1995		42.41	9.45	---	---	---	---	---	---	---	---	---	---	---
	1/16/1996		51.59	0.27	10,000	11,000	---	1.5	3,100	74	110	490	---	Tannin/Lignin = 57	3.0
	4/23/1996		50.59	1.27	13,000	14,000	---	2.3	3,700	85	190	920	---	Tannin/Lignin = 74	4.0
	7/10/1996		46.26	5.60	15,000	13,000	---	ND	4,600	160	220	760	---	Tannin/Lignin = 86	4.0
	10/22/1996		43.31	8.55	7,100	8,500	---	2.8	3,300	77	96	180	340	Tannin/Lignin = 220	3.0
	1/21/1997		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		---
	4/15/1997		47.31	4.55	9,500	7,300	---	3.6	2,600	60	110	470	160	Tannin/Lignin = 47	3.0
	5/20/1997		46.91	4.95	---	---	---	---	---	---	---	---	---	---	---
	7/29/1997		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	---	---
	10/15/1997		44.86	7.00	19,000	8,700	---	1.3	4,500	130	120	170	ND <250	---	3.0
	10/15/97 (D)		duplicate sample		16,000	6,300	---	---	4,200	120	100	150	ND <250	---	---
	1/20/1998		51.61	0.25	7,900	8,100	---	ND	1,700	40	72	200	ND	---	2.0
	4/15/1998		51.03	0.83	9,900	8,500	---	65	2,300	50	100	280	ND	Tannin/Lignin = 42	2.2
	7/28/1998		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	---	---
	1/26/2000		50.83	1.03	7,900	2,400	ND <500	---	3,300	70	93	84	ND<10		---
	5/3/2000		48.64	3.22	5,800	55	ND<170	---	1,600	ND<80	120	214	ND<30	---	---
	8/3/2000		44.74	7.12	10,000	92	ND<170	---	3,200	69	90	108	ND<200	---	0.8
	10/11/2000		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	---	---
	4/12/2001		49.59	2.27	1,100	*65 w/ silica gel cleanup*	*ND<170*	---	230	2.4	14	7.7	ND<2.0	---	0.8
	7/10/2001		44.86	7.00	5,600	3,100	270	---	1,700	23	39	29	ND<10	ND<10-200	0.3
	11/1/2001		40.81	11.05	10,000	360	ND<170	---	3,900	53	41	37.3	ND<5.0	ND<5-100	---
	12/10/2001		47.36	4.50	10,000	140	ND<170	---	4,600	77	53	41.5	ND<1.0	**COD - 380,000**	2.8
	3/28/2002		48.49	3.37	6,200	270	ND<170	---	1,900	34	34	37	ND<50	ND<50-1000	1.0
	6/27/2002		44.83	7.03	5,800	310	ND<170	---	3,800	56	34	ND<25	ND<50	ND<50-1000	0.5
	9/11/2002		45.78	6.08	7,700	160	ND<170	---	2,600	50	39	25	ND<50	ND<50-1000	---
	12/4/2002		well destroyed												
MW-3		50.87													
	10/7/1993		40.28	10.59	340	230	ND <500	---	140	3.0	1.3	2.8	---	---	---
	11/11/1993		39.48	11.39	---	---	---	---	---	---	---	---	---	---	---
	12/29/1993		43.91	6.96	---	---	---	---	---	---	---	---	---	---	---
	1/24/1994		49.57	1.30	690	170	ND <500	---	150	5.4	2.6	4.2	---	---	---
	2/24/1994		47.11	3.76	---	---	---	---	---	---	---	---	---	---	---
	3/28/1994		45.63	5.24	---	---	---	---	---	---	---	---	---	---	---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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															
	4/25/1994		46.27	4.60	**860**	**1,100**	---	ND	**190**	ND	ND	ND	---	---	---
	5/12/1994		44.45	6.42	---	---	---	---	---	---	---	---	---	---	---
	6/3/1994		43.85	7.02	---	---	---	---	---	---	---	---	---	---	---
	7/19/1994		41.95	8.92	**980**	**2,200**	---	ND	**240**	**10**	**4.7**	**11**	---	---	4.0
	9/21/1994		39.38	11.49	---	---	---	---	---	---	---	---	---	---	---
	10/25/1994		38.40	12.47	**530**	**1,200**	---	ND	**170**	ND	ND	ND	---	---	3.0
	11/16/1994		39.47	11.40	---	---	---	---	---	---	---	---	---	---	---
	12/8/1994		44.48	6.39	---	---	---	---	---	---	---	---	---	---	---
	1/9/1995		50.83	0.04	**510**	**1,100**	---	ND	**110**	**2.0**	**1.6**	**2.3**	---	---	5.0
	2/7/1995		46.51	4.36	---	---	---	---	---	---	---	---	---	---	---
	3/7/1995		46.11	4.76	---	---	---	---	---	---	---	---	---	---	---
	4/5/1995		45.76	5.11	**480**	**1,500**	---	ND	**130**	**3.1**	ND	**2.7**	---	---	3.0
	6/23/1995		43.92	6.95	---	---	---	---	---	---	---	---	---	---	---
	7/5/1995		43.38	7.49	**560**	**1,700**	---	ND	**130**	**4.6**	**1.6**	**2.1**	---	---	3.0
	8/3/1995		42.40	8.47	---	---	---	---	---	---	---	---	---	---	---
	9/6/1995		41.19	9.68	---	---	---	---	---	---	---	---	---	---	2.5
	10/9/1995		40.46	10.41	**570**	**2,300**	---	ND	**210**	**3.8**	ND	**4.6**	---	---	---
	11/16/1995		39.82	11.05	---	---	---	---	---	---	---	---	---	---	---
	1/16/1996		48.44	2.43	**680**	**2,200**	---	**1.4**	**200**	**3.8**	ND	**3.1**	---	---	4.0
	4/23/1996		46.17	4.70	**520**	**2,300**	---	ND	**160**	**2.2**	ND	**2.2**	---	---	4.0
	7/10/1996		44.12	6.75	**680**	**2,100**	---	ND	**240**	**5.4**	ND	**5.9**	---	---	4.0
	10/22/1996		42.17	8.70	**550**	**2,600**	---	ND	**210**	**2.2**	ND	**3.9**	**27**	---	4.0
	1/21/1997		45.47	5.40	**370**	**1,400**	---	ND	**87**	**1.2**	ND	**1.1**	**7.7**	---	3.0
	4/15/1997		44.12	6.75	**820**	**1,800**	---	ND	**170**	**3.3**	**2.5**	**4.2**	**32**	---	4.0
	7/29/1997		43.27	7.60	**790**	**2,300**	---	---	**230**	ND	ND	ND	ND	---	4.0
	10/15/1997		43.62	7.25	**210**	**2,100**	---	ND <1.2	**49**	**0.60**	ND <0.50	**0.57**	**4.9**	---	3.0
	1/20/1998		49.59	1.28	**370**	**1,100**	---	ND	**67**	ND	ND	**0.80**	**15**	---	3.0
	4/15/1998		46.37	4.50	**1,600**	**2,600**	---	**17**	**310**	ND	ND	ND	ND	---	2.6
	7/28/1998		42.72	8.15	**960**	**2,900**	---	ND <5.0	**230**	**6.2**	**3.8**	**4.2**	**6.7**	---	2.0
	1/26/2000		46.87	4.00	**1,400**	**370**	ND <500	---	**270**	**7.5**	**2.2**	**3.9**	ND<8.0	---	---
	5/3/2000		44.88	5.99	**640**	ND<50	ND<170	---	**200**	**ND<10**	**2.5**	**1.7**	ND<10	---	---
	8/3/2000		42.07	8.80	**1,000**	ND<50	ND<170	---	**210**	**8.5**	**2.8**	**3.0**	ND<30	---	0.7
	10/11/2000		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	---	---
	4/12/2001		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
	7/10/2001		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
	11/1/2001		Well is buried		---	---	---	---	---	---	---	---	---	---	---
	12/10/2001		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
	3/28/2002		45.80	5.07	**82**	**62**	ND<170	---	**11**	ND<0.50	ND<0.50	**0.61**	ND<1.0	ND<1-20	---
	6/27/2002		Well inaccessible		---	---	---	---	---	---	---	---	---	---	---
	3/25/2003		---	---	---	---	---	---	---	---	---	---	---	---	
	9/23/2003		40.90	9.97	**1,000**	**65**	ND<170	---	**200**	**3.9**	**1.2**	**2.0**	ND<1.0	ND<1-20	0.63
	3/23/2004		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. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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															
	9/22/2004		39.64	11.23	**2,100**	**110**	ND<170	---	**480**	**16**	**3.9**	**6.9**	ND<20	---	0.52
	3/30/2005		48.64	2.23	**180**	ND<50	ND<170	---	**38**	**1.2**	ND<0.50	**0.59**	ND<3.0	---	0.51
	4/26/2005		44.58	6.29	**1,400**	**71**	---	---	**270**	**11**	**2.7**	**4.5**	ND<20	---	0.42
	5/24/2005		44.71	6.16	**1,700**	**91**	ND<170	---	**400**	**12**	**3.3**	**7.0**	ND<20	---	0.34
	6/27/2005		44.02	6.85	**1,800**	**110**	ND<170	---	**440**	**10**	**2.8**	**6.9**	ND<18	---	2.52
	7/28/2005		42.86	8.01	**1,600**	**130**	---	---	**360**	**11**	**1.9**	**5.5**	ND<15	---	0.38
	12/8/2005		44.90	5.97	**310**	**55**	---	---	**76**	**1**	ND<0.50	**0.68**	ND<1.0	---	0.44
MW-4		52.62													
	6/3/1994		48.79	3.83	---	---	---	---	---	---	---	---	---	---	---
	7/19/1994		47.27	5.35	ND	ND	---	**2,800**	ND	ND	ND	ND	---	Tannin/Lignin = ND	3.0
	9/21/1994		44.29	8.33	---	---	---	---	---	---	---	---	---	---	---
	10/25/1994		42.99	9.63	ND	ND	---	ND	ND	ND	ND	ND	---	---	7.0
	11/16/1994		47.75	4.87	---	---	---	---	---	---	---	---	---	---	---
	12/8/1994		49.87	2.75	---	---	---	---	---	---	---	---	---	---	---
	1/9/1995		52.62	0.00	ND	**300**	---	ND	ND	ND	ND	ND	---	---	6.0
	2/7/1995		51.76	0.86	---	---	---	---	---	---	---	---	---	---	---
	3/7/1995		51.43	1.19	---	---	---	---	---	---	---	---	---	---	---
	4/5/1995		51.07	1.55	ND	**86**	---	ND	ND	ND	ND	ND	---	---	4.0
	6/23/1995		49.47	3.15	---	---	---	---	---	---	---	---	---	---	---
	7/5/1995		48.87	3.75	ND	**130**	---	ND	ND	ND	ND	ND	---	---	2.5
	8/3/1995		47.69	4.93	---	---	---	---	---	---	---	---	---	---	---
	9/6/1995		46.42	6.20	---	---	---	---	---	---	---	---	---	---	---
	10/9/1995		46.21	6.41	ND	**69**	---	ND	ND	ND	ND	ND	---	---	2.5
	1/16/1996		51.75	0.87	ND	**95**	---	**1.1**	ND	ND	ND	ND	---	---	4.5
	4/23/1996		51.42	1.20	ND	**59**	---	ND	ND	ND	ND	ND	---	---	4.0
	7/10/1996		48.37	4.25	ND	**53**	---	ND	ND	ND	ND	ND	---	---	4.0
	10/22/1996		46.10	6.52	ND	**86**	---	ND	ND	ND	ND	ND	ND	---	4.0
	1/21/1997		51.37	1.25	ND	**81**	---	ND	ND	ND	ND	ND	ND	---	3.0
	4/15/1997		49.62	3.00	ND	ND	---	ND	ND	ND	ND	ND	ND	---	3.0
	5/20/1997		49.10	3.52	---	---	---	---	---	---	---	---	---	---	---
	7/29/1997		46.97	5.65	ND	**210**	---	---	ND	ND	ND	ND	ND	---	3.0
	10/15/1997		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
	1/20/1998		49.97	2.65	ND	**140**	---	ND	ND	ND	ND	ND	ND	---	2.0
	4/15/1998		51.27	1.35	ND	ND	---	**1.0**	ND	ND	ND	ND	ND	---	2.4
	7/28/1998		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
	1/26/2000		51.85	0.77	ND<50	ND<50	ND<500	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**37**	---	---
	5/3/2000		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	---	---
	8/3/2000		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
	8/3/2000		duplicate sample		ND<50	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	10/11/2000		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	---	---
	4/12/2001		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
	7/10/2001		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
	11/1/2001		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	---
	12/10/2001		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
	3/28/2002		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
	6/27/2002		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
	9/11/2002		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	---
	12/4/2002		Well destroyed												

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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													
	6/3/1994		47.96	4.44	---	---	---	---	---	---	---	---	---	---	---
	7/19/1994		46.57	5.83	ND	**400**	---	ND	ND	ND	ND	ND	---	---	4.0
	9/21/1994		43.70	8.70	---	---	---	---	---	---	---	---	---	---	---
	10/25/1994		42.40	10.00	ND	**78**	---	ND	ND	ND	ND	ND	---	---	1.0
	11/16/1994		47.42	4.98	---	---	---	---	---	---	---	---	---	---	---
	12/8/1994		48.75	3.65	---	---	---	---	---	---	---	---	---	---	---
	1/9/1995		51.32	1.08	ND	**330**	---	ND	**1.8**	ND	ND	**2.2**	---	---	5.0
	2/7/1995		50.54	1.86	---	---	---	---	---	---	---	---	---	---	---
	3/7/1995		50.02	2.38	---	---	---	---	---	---	---	---	---	---	---
	4/5/1995		49.84	2.56	**53**	**380**	---	ND	**2.4**	**0.53**	**0.53**	**3.0**	---	---	3.0
	6/23/1995		48.33	4.07	---	---	---	---	---	---	---	---	---	---	---
	7/5/1995		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	---	---	---
	8/3/1995		46.50	5.90	---	---	---	---	---	---	---	---	---	---	---
	9/6/1995		45.56	6.84	---	---	---	---	---	---	---	---	---	---	---
	10/9/1995		45.08	7.32	ND	**50**	---	ND	ND	ND	ND	ND	---	---	6.0
	11/16/1995		44.77	7.63	---	---	---	---	---	---	---	---	---	---	---
	1/16/1996		51.30	1.10	ND	**560**	---	**1.4**	**4.2**	**0.78**	**0.58**	**2.9**	---	---	3.0
	4/23/1996		50.30	2.10	ND	**590**	---	ND	**2.3**	ND	ND	**1.1**	---	---	4.0
	7/10/1996		47.65	4.75	ND	**380**	---	ND	ND	ND	ND	ND	---	---	3.0
	7/10/1996		duplicate sample		ND	**380**	---	ND	**0.52**	ND	ND	ND	---	---	---
	10/22/1996		45.50	6.90	ND	**320**	---	ND	ND	ND	ND	ND	ND	---	3.0
	1/21/1997		50.05	2.35	**75**	**630**	---	ND	**0.90**	ND	ND	**0.82**	**3.2**	---	3.0
	4/15/1997		48.40	4.00	ND	**330**	---	ND	**0.69**	ND	ND	ND	ND	---	3.0
	5/20/1997		48.72	3.68	---	---	---	---	---	---	---	---	---	---	---
	7/29/1997		46.70	5.70	ND	**450**	---	---	ND	ND	ND	ND	ND	---	3.0
	10/15/1997		46.05	6.35	ND <50	**450**	---	ND <1.1	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	3.0
	1/20/1998		50.25	2.15	ND	**430**	---	ND	ND	ND	ND	ND	ND	---	3.0
	4/15/1998		50.35	2.05	ND	**550**	---	**6.4**	**0.5**	ND	ND	ND	ND	---	2.8
	7/28/1998		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
	1/26/2000		Well not found		---	---	---	---	---	---	---	---	---	---	---
	5/3/2000		Well not found		---	---	---	---	---	---	---	---	---	---	---
	8/3/2000		Well not found		---	---	---	---	---	---	---	---	---	---	---
	10/11/2000		Well not found		---	---	---	---	---	---	---	---	---	---	---
	1/4/2001		Well not found		---	---	---	---	---	---	---	---	---	---	---
	4/12/2001		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
	7/10/2001		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
	11/1/2001		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	---
	12/10/2001		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
	3/28/2002		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
	6/27/2002		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
	9/11/2002		Well not found	---	---	---	---	---	---	---	---	---	---	---	---
	12/4/2002		Well destroyed												

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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													
	6/3/1994		46.32	4.31	---	---	---	---	---	---	---	---	---	---	---
	7/19/1994		44.63	6.00	ND	ND	---	ND	ND	ND	ND	ND	---	---	2.0
	9/21/1994		42.17	8.46	---	---	---	---	---	---	---	---	---	---	---
	10/25/1994		41.30	9.33	ND	ND	---	ND	ND	ND	ND	ND	---	---	2.0
	11/16/1994		48.24	2.39	---	---	---	---	---	---	---	---	---	---	---
	12/8/1994		48.75	1.88	---	---	---	---	---	---	---	---	---	---	---
	1/9/1995		49.62	1.01	ND	**150**	---	ND	ND	ND	ND	ND	---	---	3.0
	2/7/1995		49.01	1.62	---	---	---	---	---	---	---	---	---	---	---
	3/7/1995		48.28	2.35	---	---	---	---	---	---	---	---	---	---	---
	4/5/1995		48.20	2.43	ND	**87**	---	ND	**0.81**	ND	ND	ND	---	---	2.0
	6/23/1995		47.46	3.17	---	---	---	---	---	---	---	---	---	---	---
	7/5/1995		46.65	3.98	ND	**120**	---	ND	ND	ND	ND	ND	---	---	3.5
	8/3/1995		46.03	4.60	---	---	---	---	---	---	---	---	---	---	---
	9/6/1995		46.13	4.50	---	---	---	---	---	---	---	---	---	---	---
	10/9/1995		47.14	3.49	ND	**150**	---	ND	ND	ND	ND	ND	---	---	1.5
	11/16/1995		48.11	2.52	---	---	---	---	---	---	---	---	---	---	---
	1/16/1996		49.70	0.93	ND	**200**	---	**1.3**	ND	ND	ND	ND	---	---	2.0
	4/23/1996		49.38	1.25	ND	**140**	---	ND	ND	ND	ND	ND	---	---	3.0
	7/10/1996		47.78	2.85	ND	**120**	---	ND	ND	ND	ND	ND	---	---	3.0
	10/22/1996		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	---	---
	1/21/1997		50.08	0.55	ND	**120**	---	ND	ND	ND	ND	ND	**3.7**	---	3.0
	4/15/1997		48.88	1.75	ND	ND	---	ND	ND	ND	ND	ND	ND	---	3.0
	5/20/1997		47.96	2.67	---	---	---	---	---	---	---	---	---	---	---
	7/29/1997		47.13	3.50	ND	**99**	---	---	ND	ND	ND	ND	ND	---	3.0
	10/15/1997		47.53	3.10	ND <50	**86**	---	ND <1.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	3.0
	1/20/1998		49.38	1.25	ND	**52**	---	ND	ND	ND	ND	ND	ND	---	2.0
	4/15/1998		49.28	1.35	ND	ND	---	**2.8**	ND	ND	ND	ND	ND	---	2.6
	7/28/1998		47.15	3.48	ND <50	**74**	---	ND <5.0	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	2.4
	1/26/2000		49.23	1.40	ND<50	ND<50	ND<500	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	**37**	---	---
	5/3/2000		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	---	---
	8/3/2000		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
	10/11/2000		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**	---	---
	4/12/2001		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
	7/10/2001		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
	11/1/2001		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	---
	12/10/2001		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
	6/27/2002		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
	9/11/2002		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	---
	12/5/2002		Well destroyed												

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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													
	6/3/1994		42.49	8.56	---	---	---	---	---	---	---	---	---	---	---
	7/19/1994		40.62	10.43	5,100	4,700	---	2,700	460	87	160	130	---	---	3.0
	9/21/1994		36.83	14.22	---	---	---	---	---	---	---	---	---	---	---
	10/25/1994		35.87	15.18	4,000	2,500	---	ND	430	46	95	59	---	---	1.0
	11/16/1994		39.29	11.76	---	---	---	---	---	---	---	---	---	---	---
	12/8/1994		43.88	7.17	---	---	---	---	---	---	---	---	---	---	---
	1/9/1995		49.78	1.27	3,400	3,000	---	ND	350	66	99	73	---	---	5.0
	2/7/1995		46.73	4.32	---	---	---	---	---	---	---	---	---	---	---
	3/7/1995		46.41	4.64	---	---	---	---	---	---	---	---	---	---	---
	4/5/1995		45.95	5.10	2,900	2,100	---	ND	340	38	61	39	---	---	4.0
	6/23/1995		42.86	8.19	---	---	---	---	---	---	---	---	---	---	---
	7/5/1995		42.75	8.30	3,500	2,700	---	ND	390	60	74	30	---	---	3.0
	8/3/1995		41.31	9.74	---	---	---	---	---	---	---	---	---	---	---
	9/6/1995		39.47	11.58	---	---	---	---	---	---	---	---	---	---	---
	10/9/1995		38.01	13.04	2,500	4,300	---	ND	330	45	55	35	---	---	2.5
	11/16/1995		36.76	14.29	---	---	---	---	---	---	---	---	---	---	---
	1/16/1996		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	---	---	---
	4/23/1996		46.40	4.65	2,400	2,100	---	2.2	250	32	41	20	---	---	3.0
	7/10/1996		43.85	7.20	3,900	3,900	---	ND	570	54	110	83	---	---	3.0
	10/22/1996		38.25	12.80	3,200	4,100	---	2.2	390	54	57	43	87	---	4.0
	1/21/1997		45.95	5.10	2,900	5,500	---	2.5	370	15	41	33	250	---	3.0
	4/15/1997		43.50	7.55	4,200	3,000	---	2.9	340	37	50	45	ND	---	4.0
	5/20/1997		43.40	7.65	---	---	---	---	---	---	---	---	---	---	---
	7/29/1997		40.70	10.35	3,800	4,200	---	---	450	41	67	54	ND	---	4.0
	10/15/1997		39.00	12.05	3,900	7,300	---	1.8	350	55	58	35	120	---	4.0
	1/20/1998		49.90	1.15	2,000	2,300	---	1.1	140	23	ND	17	64	---	3.0
	4/15/1998		46.60	4.45	6,300	3,600	---	30	530	34	37	63	ND	---	3.0
	7/28/1998		41.40	9.65	3,100	2,600	---	ND <5.0	360	29	32	26	36	---	2.6
	1/26/2000		46.69	4.36	3,700	1,000	ND<500	---	280	ND<0.50	27	19	ND<30	---	---
	5/3/2000		44.66	6.39	400	89	ND<170	---	61	ND<10	ND<3.0	ND<3.0	ND<10	---	---
	8/3/2000		40.27	10.78	890	ND<50	ND<170	---	120	14	9	5.3	ND<50	---	0.9
	10/11/2000		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	---	---
	4/12/2001		45.41	5.64	380	*ND<50 w/ silica*	ND<170	---	39	1.4	1.4	ND<1.0	ND<1.0	---	0.5
	7/10/2001		40.11	10.94	4,500	420	ND<170	---	380	33	36	32.6	ND<1.0	ND<1-20	2.0
	11/1/2001		35.98	15.07	2,600	220	ND<170	---	340	26	26	21.7	ND<2.0	ND<2-40	---
	12/10/2001		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
	3/28/2002		46.40	4.65	1,000	140	ND<170	---	41	3.4	4.4	4.0	ND<1.0	ND<1-20	1.0
	6/27/2002		42.89	8.16	2,700	350	ND<170	---	370	25	23	19	ND<10	ND<1-200	0.4
	9/11/2002		39.70	11.35	4,100	270	ND<170	---	320	22	ND<2.5	20	ND<5.0	**TBA - 120**	1.4
	3/27/2003		---	---	3,300	140	ND<170	---	130	16	22	19.8	ND<1.0	ND<1.0-20	
	9/23/2003		40.05	11.00	1,200	74	ND<170	---	120	11	12	7.0	ND<1.0	ND<1.0-20	0.0
	3/23/2004		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. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHlr (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															
	9/22/2004		37.89	13.16	**1,800**	**75**	ND<170	---	**230**	**28**	**16**	**10**	ND<70	---	0.25
	4/26/2005		45.25	5.80	**500**	ND <50	---	---	**13**	**4.9**	**2.8**	**2.1**	ND<18	---	0.65
MW-8		51.13													
	5/20/1997		43.70	7.43	ND	**74**	---	ND	ND	ND	ND	ND	ND	---	---
	7/29/1997		41.78	9.35	ND	**150**	---	---	ND	ND	ND	ND	ND	---	2.0
	10/15/1997		39.86	11.27	ND <50	**160**	---	ND <1.1	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	3.0
	1/20/1998		49.28	1.85	ND	**110**	---	ND	ND	ND	ND	ND	ND	---	2.0
	4/15/1998		48.13	3.00	ND	ND	---	**4.1**	ND	ND	ND	ND	ND	---	2.2
	7/28/1998		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
	1/26/2000		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	---	---
	5/3/2000		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	---	---
	8/3/2000		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
	10/11/2000		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	---	---
	4/12/2001		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
	7/10/2001		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
	11/1/2001		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	---
	12/10/2001		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
	3/28/2002		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
	6/20/2002		Well Destroyed	---	---	---	---	---	---	---	---	---	---	---	---
MW-9		53.13													
	5/20/1997		42.95	10.18	**1,200**	**1,700**	---	**7.6**	**400**	ND	ND	ND	ND	---	---
	7/29/1997		40.93	12.20	**530**	**5,500**	---	---	**150**	ND	ND	ND	ND	---	2.0
	10/15/1997		39.13	14.00	**3,200**	**13,000**	---	**13**	**160**	ND <2.5	ND <2.5	ND <2.5	**18**	---	3.0
	1/20/1998		49.23	3.90	**150**	**990**	---	ND	**34**	ND	ND	ND	ND	---	2.0
	4/15/1998		47.18	5.95	**460**	**940**	---	**26**	**2.5**	ND	ND	ND	ND	---	2.6
	7/28/1998		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
	1/26/2000		46.88	6.25	**1300**	**280**	ND<500	---	**470**	**2.6**	**1.9**	ND <0.50	ND<3.0	---	---
	5/3/2000		43.88	9.25	**340**	ND<50	ND<170	---	**100**	**1.1**	**0.93**	ND<0.50	ND<3.0	---	---
	8/3/2000		41.33	11.80	**350**	ND<50	ND<170	---	**120**	**1.1**	**1.2**	ND<1.5	ND<15	---	1.1
	10/11/2000		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	---	---
	4/12/2001		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
	7/10/2001		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
	11/1/2001		37.34	15.79	**1,100**	**160**	ND< 170	---	**310**	**3.2**	**0.62**	**0.80**	ND<1.0	ND<1.0-20	
	12/10/2001		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	
	3/28/2002		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
	6/27/2002		42.44	10.69	**130**	**62**	---	---	**8.3**	ND<1.0	ND <0.50	ND <0.50	ND<1.0	ND<1.0-20	---
	9/11/2002		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
	3/27/2003		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
	9/23/2003		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. 4629.02/04, CRWQCB Case No. 1THU116

WELL/ Date	Sample	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHlr (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															
	3/23/2004		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
	9/22/2004		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
	4/26/2005		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													
	5/20/1997		43.05	8.37	ND	**910**	---	**7.6**	ND	ND	ND	ND	ND	---	---
	7/29/1997		41.82	9.60	ND	**1,100**	---	---	ND	ND	ND	ND	ND	---	3.0
	10/15/1997		41.72	9.70	ND <50	**860**	---	ND <1.1	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <2.5	---	2.0
	1/20/1998		48.17	3.25	ND	**640**	---	ND	ND	ND	ND	ND	ND	---	2.0
	4/15/1998		45.17	6.25	ND	**800**	---	**5.6**	ND	ND	ND	ND	ND	---	2.4
	7/28/1998		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
	1/26/2000		45.67	5.75	ND<50	**69**	ND<500	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND<3.0	---	---
	5/3/2000		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	---	---
	8/3/2000		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
	10/11/2000		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	---	---
	4/12/2001		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
	7/10/2001		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
	11/1/2001		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	---
	12/10/2001		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
	3/28/2002		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
	6/27/2002		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
	9/11/2002		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
	3/27/2003		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
	9/23/2003		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
	3/23/2004		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
	9/22/2004		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
	3/30/2005		47.71	3.71	---	---	---	---	---	---	---	---	---	---	---
	4/26/2005		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
	5/24/2005		44.29	7.13	---	---	---	---	---	---	---	---	---	---	---
	6/27/2005		44.81	6.61	---	---	---	---	---	---	---	---	---	---	---
	7/28/2005		42.10	9.32	---	---	---	---	---	---	---	---	---	---	---
	12/8/2005		44.40	7.02	Measure DTW only										
MW-11		48.30													
	5/20/1997		34.34	13.96	ND	---	---	---	ND	ND	ND	ND	---	---	---
	7/29/1997		32.30	16.00	----- Insufficient amount of water to sample -----										
	10/15/1997		32.45	15.85	----- Insufficient amount of water to sample -----										
	1/20/1998		---	---	----- Well Inaccessible -----										
	4/15/1998		---	---	----- Well Inaccessible -----										
	5/14/1998		---	---	ND	**320**	---	---	ND	ND	ND	ND	---	---	---
	7/28/1998		33.05	15.25	----- Insufficient amount of water to sample -----										
	1/26/2000		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	---	---
	5/3/2000		35.13	13.17	ND<50	ND<50	ND<170	---	ND<0.50	**0.73**	ND<0.50	ND<0.50	ND<3.0	---	---
	8/3/2000	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
	10/11/2000	----- 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 -----								
	4/12/2001		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
	7/10/2001	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
	11/1/2001	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
	12/10/2001		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
	3/28/2002		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. 4629.02/04, CRWQCB Case No. 1THU116

WELL/ Date	Sample	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															
	6/27/2002	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
	9/11/2002	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
	3/27/2003		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
	9/23/2003	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
	3/23/2004		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	---
	9/22/2004	----- Insufficient amount of water to sample -----					----- Insufficient amount of water to sample -----								
	3/30/2005		39.58	8.72	---	---	---	---	---	---	---	---	---	---	---
	4/26/2005		35.34	12.96	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	5/24/2005		35.67	12.63	---	---	---	---	---	---	---	---	---	---	---
	6/27/2005		34.58	13.72	---	---	---	---	---	---	---	---	---	---	---
	7/28/2005	----- Insufficient amount of water to sample -----													
	12/8/2005		35.02	13.28							Measure DTW only				
MW-12		51.11													
	5/20/1997		47.67	3.44	**47,000**	**7,000**	---	**7.8**	**12,000**	**1,600**	**1,000**	**2,600**	ND	---	---
	7/29/1997		43.76	7.35	**67,000**	**4,500**	---	---	**24,000**	**640**	**1,500**	**1,900**	ND	---	4.0
	10/15/1997		46.74	4.37	**24,000**	**2,600**	---	**2.1**	**8,300**	**160**	**560**	**770**	ND <500	---	4.0
	1/20/1998		47.66	3.45	**17**	**4,500**	---	**1.4**	**5,200**	**350**	**730**	**1,500**	ND	---	3.0
	4/15/1998		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	---	---
	7/28/1998		46.16	4.95	**72,000**	**4,900**	---	ND <5.0	**23,000**	**830**	**1,700**	**2,200**	ND <2.5	---	---
	1/26/2000		49.17	1.94	**12,000**	**410**	ND<500	---	**3,300**	**60**	ND<5.0	**52**	ND<100	---	---
	5/3/2000		47.50	3.61	**32,000**	ND<50	ND<170	---	**17,000**	**380**	**610**	**880**	ND<300	---	---
	5/3/2000		duplicate sample		**31,000**	---	---	---	**17,000**	**360**	**560**	**800**	ND<150	---	---
	8/3/2000		44.14	6.97	**60,000**	ND<50	ND<170	---	**44,000**	**390**	**1200**	**417**	ND<600	---	0.8
	10/11/2000		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	---	---
	4/12/2001		48.37	2.74	**15,000**		ND<170	---	**7,100**	**88**	**350**	**358**	ND<20	---	0.6
						180 ***w/ silica gel cleanup***									
	7/10/2001		44.61	6.50	**52,000**	**300**	ND<170	---	**41,000**	**250**	**1,100**	**318**	ND<20	ND<20-400	0.6
	11/1/2001		44.87	6.24	**48,000**	**220**	ND<170	---	**50,000**	**190**	**700**	**321**	ND<50	ND<20-400	---
	12/10/2001		49.51	1.60	**19,000**	**100**	ND<170	---	**7,900**	**62**	**150**	**138**	ND<5.0	**COD - 160000**	0.2
	3/28/2002		48.33	2.78	**20,000**	**180**	ND<170	---	**6,300**	**42**	**82**	**64**	ND<50	ND<50-1000	0.9
	6/27/2002		46.22	4.89	**19,000**	**480**	ND<170	---	**10,000**	**140**	**410**	**504**	ND<4.0	ND<1-20	0.48
	9/11/2002		43.01	8.10	**91,000**	**200**	ND<170	---	**45,000**	**190**	**750**	**184**	ND<50	ND<50-1000	---
	12/6/2002		Well destroyed												
MW-13		50.19													
	5/20/1997		44.09	6.10	**38,000**	**3,400**	---	ND	**8,900**	**2,600**	**1,200**	**2,000**	ND	---	---
	7/29/1997		45.19	5.00	**37,000**	**3,200**	---	---	**7,400**	**1,700**	**1,300**	**1,400**	ND	---	4.0
	10/15/1997		43.59	6.60	**27,000**	**2,700**	---	**3.8**	**7,600**	**1,300**	**1,300**	**1,000**	ND <500	---	3.0
	1/20/1998		46.79	3.40	**25,000**	**2,200**	---	**2.3**	**6,000**	**2,400**	**1,200**	**910**	ND	---	2.0
	4/15/1998		44.54	5.65	**26,000**	**2,400**	---	**8.6**	**5,200**	**2,500**	**1,100**	**1,400**	ND	---	3.4
	7/28/1998		42.59	7.60	**18,000**	**2,200**	---	ND <5.0	**3,800**	**1,200**	**870**	**720**	ND <2.5	---	3.0
	1/26/2000		Well Not Found												
	5/3/2000		43.95	6.24	**2,800**	ND<50	ND<170	---	**440**	**210**	**180**	**234**	ND<100	---	---
	8/3/2000		40.31	9.88	**14,000**	ND<50	ND<170	---	**1,800**	**560**	**770**	**580**	ND<350	---	0.8
	10/11/2000		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. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHir (µg/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**	---	---
	4/12/2001		44.50	5.69	**210**	ND<50	ND<170	---	**34**	**2.7**	**3.8**	**7.58**	ND<0.50	---	1.3
	7/10/2001		40.27	9.92	**6,100**	**150**	ND<170	---	**580**	**230**	**300**	**281**	ND<10	ND<10-200	1.0
	11/1/2001		40.44	9.75	**3,100**	**77**	ND<170	---	**610**	**52**	**120**	**68**	ND<20	ND<1-60	---
	12/10/2001		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	---
	3/28/2002		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
	6/27/2002		41.52	8.67	**520**	ND<50	ND<170	---	**50**	**15**	**35**	**22.7**	ND<1.0	ND<1-20	0.66
	9/11/2002		38.64	11.55	**2,800**	**100**	ND<170	---	**320**	**49**	**180**	**71.1**	**2.2**	ND<1-20	2.22
	12/9/2002		Well destroyed												
MW-14		47.89													
	1/26/2000		38.00	9.89	ND<50	ND<50	ND<500	---	**1.1**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	5/3/2000		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	---	---
	8/3/2000		33.44	14.45					----- Insufficient amount of water to sample -----						
	10/11/2000		33.30	14.59					----- Insufficient amount of water to sample -----						
	1/4/2001		33.55	14.34					----- Insufficient amount of water to sample -----						
	4/12/2001		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
	7/10/2001		33.32	14.57					----- Insufficient amount of water to sample -----						
	11/1/2001	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
	12/10/2001		33.34	14.55					----- Insufficient amount of water to sample -----						
	3/28/2002		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
	6/27/2002		33.32	14.57					----- Insufficient amount of water to sample -----						
	9/11/2002		33.27	14.62					----- Insufficient amount of water to sample -----						
	3/27/2003		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
	9/23/2003		33.29	14.60	---	---	---	---	---	---	---	---	---	---	---
	3/23/2004		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	---
	9/22/2004	----- monitoring well can not be located -----			---	---	---	---	---	---	---	---	---	---	---
	3/30/2005		41.79	6.10	---	---	---	---	---	---	---	---	---	---	---
	4/26/2005		37.61	10.28	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	5/24/2005		38.19	9.70	---	---	---	---	---	---	---	---	---	---	---
	6/27/2005		35.82	12.07	---	---	---	---	---	---	---	---	---	---	---
	7/28/2005		33.49	14.40	---	---	---	---	---	---	---	---	---	---	---
	12/8/2005		33.38	14.51							Measure DTW only				
MW-15		49.28													
	1/26/2000		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	---	---
	5/3/2000		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	---	---
	8/3/2000		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	---	---
	10/11/2000	----- 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 -----						
	4/12/2001		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
	7/10/2001		35.58	13.70					----- Insufficient amount of water to sample -----						
	11/1/2001	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
	12/10/2001		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
	3/28/2002		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
	6/27/2002		36.76	12.52					----- Insufficient amount of water to sample -----						3.1
	9/11/2002		34.83	14.45					----- Insufficient amount of water to sample -----						
	1/31/2003		---	---	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
	3/26/2003		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
	6/19/2003		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
	9/24/2003		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. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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															
	12/18/2003		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
	3/23/2004		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	---
	6/29/2004		35.58	13.70					----- Insufficient amount of water to sample -----						
	9/23/2004		---	---					----- Insufficient amount of water to sample -----						
	12/14/2004		---	---	---	---	---	---	---	---	---	---	---	---	---
	4/27/2005		---	---	---	---	---	---	---	---	---	---	---	---	---
	6/20/2005		Well is obstructed, unable to sample												
	9/29/2005		Well is obstructed, unable to sample												
	12/28/2005		47.44	1.84	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
MW-16		48.88													
	1/26/2000		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	---	---
	5/3/2000		36.77	12.11	ND<50	ND<50	ND<170	---	**3**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	8/3/2000		34.47	14.41					----- Insufficient amount of water to sample -----						
	10/11/2000		34.43	14.45					----- Insufficient amount of water to sample -----						
	1/4/2001		34.61	14.27					----- Insufficient amount of water to sample -----						
	4/12/2001		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
	7/10/2001		34.39	14.49					----- Insufficient amount of water to sample -----						
	11/1/2001		34.39	14.49					----- Insufficient amount of water to sample -----						
	12/10/2001		41.86	7.02	ND<50	ND<50	**340**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	3/28/2002		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
	6/27/2002		34.33	14.55					----- Insufficient amount of water to sample -----						
	9/11/2002		34.26	14.62					----- Insufficient amount of water to sample -----						
	1/31/2003		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
	3/27/2003		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
	6/19/2003		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
	9/24/2003		34.29	14.59					----- Well not sampled -----						
	12/18/2003		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
	3/23/2004		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	---
	6/29/2004		---	---					----- Insufficient amount of water to sample -----						
	9/23/2004		34.38	14.50					----- Insufficient amount of water to sample -----						
	12/14/2004		37.43	11.45	**93**	ND<50	---	---	**8.3**	**1.1**	**0.52**	**0.73**	ND<7.0	**Iron = 270**	---
	4/27/2005		36.81	12.07	ND<50	ND<50	---	---	**1.6**	**0.66**	ND<0.50	ND<0.50	ND<3.0	---	---
	6/20/2005		Well is obstructed, unable to sample												
	9/29/2005		Well is obstructed, unable to sample												
	12/28/2005		45.74	3.14	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
MW-17S		30.92													
	10/1/2001	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
	11/1/2001	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
	12/10/2001		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
	3/28/2002		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
	6/27/2002		18.23	12.69	---	---	---		----- Insufficient amount of water to sample -----				---	---	---
	9/11/2002	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
	3/27/2003		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
	9/23/2003	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
	12/18/2003														
	3/23/2004		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	---
	9/22/2004	----- Insufficient amount of water to sample -----							----- Insufficient amount of water to sample -----						
	4/26/2005		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 02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHlr (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													
	10/1/2001		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	---
	11/1/2001		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	---
	12/10/2001		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
	3/28/2002		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
	6/27/2002		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
	9/11/2002		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
	3/27/2003		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
	9/23/2003		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
	3/23/2004		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	---
	9/22/2004		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	---	---
	3/30/2005		23.34	7.48	---	---	---	---	---	---	---	---	---	---	---
	4/26/2005		22.49	8.33	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	5/24/2005		21.49	9.33	---	---	---	---	---	---	---	---	---	---	---
	6/27/2005		20.25	10.57	---	---	---	---	---	---	---	---	---	---	---
	7/28/2005		16.91	13.91	---	---	---	---	---	---	---	---	---	---	---
	12/8/2005		21.15	9.67	Measure DTW only										
MW-18		30.82													
	10/1/2001		14.31	16.51	**110**	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**DIPE = 270**	---
	11/1/2001		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**	---
	12/10/2001		-------Standing water-------					-------Standing water-------							
	3/28/2002		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
	6/27/2002		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
	9/11/2002		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
	3/27/2003		-------Standing water-------					-------Standing water-------							
	9/23/2003		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	---
	3/23/2004		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	---
	9/22/2004		13.64	17.18	**310**	ND<50	ND<170	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	3/30/2005		Well inaccessible							Well inaccessible					
	4/26/2005		Well inaccessible							Well inaccessible					
	5/24/2005		Well inaccessible							Well inaccessible					
	6/27/2005		18.07	12.75	**240**	**52**	ND<170	---	ND<0.50	ND<2.0	ND<0.50	ND<2.0	ND<3.0	---	---
	7/28/2005		17.40	13.42	**250**	**60**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<3.0	---	---
	12/8/2005		-------Standing water-------					-------Standing water-------							
MW-19		31.56													
	10/1/2001		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	---
	11/1/2001		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	---
	12/10/2001		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
	3/28/2002		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
	6/27/2002		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
	9/11/2002		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
	1/31/2003		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
	3/27/2003		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
	6/19/2003		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
	9/24/2003		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	---
	12/18/2003		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
	3/23/2004		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	---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	Well Head Elevation (feet, NAVD88)	Groundwater Elevation (feet, NAVD88)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHlr (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-19 Cont'd														
	6/30/2004		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	---
	9/23/2004		13.19	18.37	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	12/14/2004		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**	---
	4/27/2005		17.71	13.85	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	6/20/2005		19.06	12.50	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	9/29/2005		13.58	17.98	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	12/28/2005	-------Standing water-------						-------Standing water-------							
MW-20		30.69													
	10/1/2001		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	---
	11/1/2001		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	---
	12/10/2001		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
	3/28/2002		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
	6/27/2002		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
	9/11/2002		---	---	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
	1/31/2003		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
	3/27/2003		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
	6/19/2003		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
	9/24/2003		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	---
	12/18/2003		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
	3/23/2004		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	---
	6/30/2004		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	---
	9/23/2004		13.15	17.54	ND<50	**180**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.6**	---	---
	12/14/2004		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**	---
	4/27/2005		20.73	9.96	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	6/20/205		25.07	5.62	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	9/29/2005		13.91	16.78	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.2**	---	---
	12/28/2005	-------Standing water-------						-------Standing water-------							
MW-21		50.99													
	3/28/2002		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
	6/27/2002		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
	9/11/2002	----- Insufficient amount of water to sample -----				---	---	---	---	---	---	---	---	---	---
	3/27/2003		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
	9/23/2003		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	---
	3/23/2004		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	---
	9/22/2004	----- Insufficient amount of water to sample -----						----- Insufficient amount of water to sample -----							
	4/26/2005		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													
	3/28/2002		---	---	ND<50	*	*	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	1.59
	6/27/2002		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
	9/11/2002		---	---	---	---	---	---	---	---	---	---	---	---	---
	3/27/2003		---	---	---	---	---	---	---	---	---	---	---	---	---
	9/23/2003		---	---	---	---	---	---	---	---	---	---	---	---	---
	3/23/2004	----- monitoring well can not be located -----													---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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													
	1/31/2003		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
	3/25/2003		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
	6/19/2003	----- Insufficient amount of water to sample -----				---	---	---	---	---	---	---	---	---	---
	9/24/2003		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	---
	12/18/2003		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
	3/23/2004		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
	6/29/2004		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
	9/23/2004		44.18	9.80	----- Insufficient amount of water to sample -----										
	12/14/2004		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	---
	4/27/2005		48.08	5.90	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.58
	6/20/2005		48.82	5.16	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	5.76
	9/29/2005	----- Insufficient amount of water to sample -----													
	12/28/2005		53.56	0.42	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	2.79
MW-24		54.40													
	1/31/2003		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
	3/25/2003		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
	6/19/2003		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
	9/24/2003		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	---
	12/18/2003		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	
	3/23/2004		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
	6/29/2004		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
	9/23/2004		44.93	9.47	ND<50	ND<170	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
	12/14/2004		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	---
	4/27/2005		48.82	5.58	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.41
	6/20/2005		49.84	4.56	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	8.05
	9/29/2005	----- Insufficient amount of water to sample -----													
	12/28/2005		53.91	0.49	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	5.62
MW-25		55.91													
	1/31/2003		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
	3/25/2003		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
	6/19/2003		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
	9/24/2003		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
	12/18/2003		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
	3/23/2004		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
	6/29/2004		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
	9/23/2004		47.39	8.52	**56**	ND<50	---	---	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<3.0	---	0.59
	12/14/2004		53.27	2.64	**470**	ND<50	---	---	**5.3**	**6.2**	ND<0.50	ND<0.50	ND<12	**Iron = 15,000**	0.37
	4/27/2005		53.59	2.32	**230**	ND<50	---	---	ND<1.5	ND<5.0	ND<0.50	ND<0.50	ND<3.0	---	0.70
	6/20/2005		53.65	2.26	**160**	ND<50	---	---	ND<1.0	ND<4.0	ND<0.50	ND<0.50	ND<3.0	---	0.34
	9/29/2005		47.92	7.99	**88**	ND<50	---	---	ND<0.50	ND<2.0	ND<0.50	ND<0.50	ND<3.0	---	0.59
	12/28/2005		55.11	0.80	**160**	**55**	---	---	ND<0.50	ND<3.5	ND<0.50	ND<0.50	ND<3.0	---	0.35

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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-26		54.74													
	1/31/2003		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
	2/10/2003		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
	3/27/2003		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
	9/23/2003		45.43	9.31	**690**	---	---	---	**2.1**	**0.53**	**0.54**	ND<0.50	ND<1.0	ND<1.0-20	---
	3/23/2004		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
	9/22/2004		45.48	9.26	ND<50	**420**	**920**	---	**1.3**	**0.65**	ND<0.50	ND<0.50	ND<3.0	---	---
	4/26/2005		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
MW-27		54.30													
	1/31/2003		49.83	4.47	**4,400**	**150**	ND<170	---	**900**	**10**	**0.61**	**29.3**	ND<10	**TBA=22** All others ND	3.59
	3/26/2003		52.87	1.43	**3,800**	**160**	ND<170	---	**1,100**	**8.2**	**25**	**14.2**	ND<10	ND<1.0-20	2.85
	6/19/2003		48.98	5.32	**12,000**	**280**	ND<170	---	**3,800**	**28**	**87**	**38.7**	ND<10	**TBA=25** All others ND	1.41
	9/24/2003		48.11	6.19	**11,000**	**270**	ND<170	---	**4,700**	**26**	**72**	**26.8**	ND<10	ND<1.0-20	0.40
	12/18/2003		50.38	3.92	**4,600**	**130**	ND<170	---	**3,100**	**15**	**42**	**12.9**	ND<10	ND<1.0-20	0.64
	3/23/2004		50.38	3.92	**6,800**	**160**	ND<170	---	**2,300**	**12**	**19**	**10.6**	ND<12	ND<1.0-35	0.97
	6/29/2004		48.80	5.50	**5,800**	**270**	ND<170	---	**2,600**	**18**	**32**	**16.8**	ND<8.0	ND<1.0-30	0.41
	7/20/2004		48.07	6.23	**2,700**	ND<50	---	---	**810**	**17**	**12**	ND<5.0	ND<3.0	---	0.57
	8/24/2004		47.40	6.90	**3,700**	**110**	---	---	**960**	**17**	**24**	**7.2**	ND<30	---	1.38
	9/23/2004		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
	10/21/2004		48.43	5.87	**1,100**	**89**	---	---	**170**	**8.2**	**16**	ND<6.0	**10**	---	0.90
	11/16/2004		49.34	4.96	**1,100**	**120**	---	---	**150**	ND<14	**8.7**	**5.1**	ND<25	---	0.55
	12/14/2004		49.03	5.27	**1,100**	**100**	---	---	**170**	**8.2**	**14**	**3.2**	ND<20	**Iron = 14,000**	0.45
	1/11/2005		48.52	5.78	**1,300**	**98**	---	---	**310**	**7.6**	**9.9**	ND<6.0	ND<25	**16,000**	0.40
	2/15/2005		49.65	4.65	**990**	**91**	---	---	**60**	ND<10	**7.4**	ND<5.0	ND<20	---	0.48
	3/30/2005		49.95	4.35	**1,300**	**80**	---	---	**300**	**7.9**	**6.8**	**3.5**	ND<30	---	0.49
	4/27/2005		49.80	4.50	**1,100**	**92**	---	---	**250**	**5.7**	**8.2**	**2.5**	ND<20	---	0.34
	5/24/2005		49.38	4.92	**820**	**85**	---	---	**280**	**4.9**	**6.1**	**2.06**	ND<15	---	0.43
	6/20/2005		51.58	2.72	**500**	ND<50	---	---	**56**	ND<5.0	**2.6**	**2.38**	ND<7.0	---	0.31
	8/11/2005		48.51	5.79			Intrinsics Only								0.64
	8/30/2005		47.74	6.56			Intrinsics Only								0.64
	9/29/2005		46.66	7.64	**880**	**110**	---	---	**12**	ND<10	**8.3**	ND<1.5	ND<10	---	0.92
	10/24/2005		46.94	7.36			Measure DTW							Dissolved Metals= ND<10-20	
	11/23/2005		49.92	4.38			Intrinsics Only								6.47
	12/29/2005		54.00	0.30	ND<50	ND<50	---	---	**0.94**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	Dissolved Metals= ND<10-20, Bromate=ND<10	3.73
	1/25/2006		51.74	2.56			Intrinsics Only								0.81

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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-28		54.61													
	1/31/2003		47.31	7.30	10,000	120	ND<170	---	4,800	14	30	61.9	ND<10	ND<1.0-20	4.16
	3/26/2003		53.04	1.57	13,000	470	ND<170	---	6,100	24	10	81.8	ND<10	ND<1.0-20	2.81
	6/19/2003		49.80	4.81	13,000	520	ND<170	---	9,700	29	56	45.5	6.8	TBA=24 All others ND	1.62
	9/24/2003		47.68	6.93	23,000	250	ND<170	---	11,000	33	49	41.6	ND<12	ND<1.0-20	0.45
	12/18/2003		52.13	2.48	21,000	470	ND<170	---	8,900	60	170	98.0	ND<6	ND<1.0-20	---
	3/23/2004		50.54	4.07	18,000	150	ND<170	---	9,600	27	15	24	ND<16	ND<1.0-45	0.49
	6/29/2004		49.36	5.25	15,000	210	ND<170	---	7,600	48	61	46.2	ND<7.0	ND<1.0-20	0.43
	7/20/2004		48.16	6.45	10,000	76	---	---	4,800	28	31	15	ND<30	---	0.63
	8/24/2004		46.88	7.73	15,000	180	---	---	6,100	43	46	21	ND<100	---	1.67
	9/23/2004		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	---
	10/21/2004		49.43	5.18	130	ND<50	---	---	53	ND<0.50	0.90	0.61	ND<3.0	---	1.45
	11/16/2004		50.54	4.07	980	71	---	---	500	3.6	4.4	3.2	ND<13	---	0.70
	12/14/2004		51.71	2.90	1,000	70	---	---	350	5.1	7.0	3.8	ND<20	Iron = 3,200	0.45
	1/11/2005		53.05	1.56	760	84	---	---	150	4.9	7.6	3.3	ND<20	Iron = 2,900	0.39
	2/15/2005		52.45	2.16	640	75	---	---	94	3.3	6.2	2.4	ND<15	---	0.46
	3/30/2005		51.39	3.22	780	81	---	---	100	4.2	8.5	1.7	ND<20	---	0.51
	4/27/2005		51.02	3.59	620	97	---	---	58	2.9	6.7	0.84	ND<10	---	0.89
	5/24/2005		51.66	2.95	570	76	---	---	93	3.4	8.6	2.3	ND<16	---	0.33
	6/20/2005		51.96	2.65	430	100	---	---	48	ND<3.0	4.2	ND<2.0	ND<8.0	---	0.37
	8/11/2005		49.46	5.15			Intrinsics Only								0.44
	8/30/2005		46.50	8.11			Intrinsics Only								2.56
	9/29/2005		46.60	8.01	210	ND<50	---	---	23	0.74	1.4	0.62	ND<3.0	---	5.79
	10/24/2005		46.42	8.19			Measure DTW							Dissolved Metals= ND<10-20	
	11/23/2005		49.82	4.79			Intrinsics Only								5.24
	12/29/2005		54.03	0.58	86	56	---	---	2.6	ND<0.50	ND<0.50	ND<0.50	ND<3.0	Dissolved Metals= ND<10-20, Bromate=ND<10	0.90
	1/25/2006		52.08	2.22			Intrinsics Only								0.78
MW-29		55.84													
	1/31/2003		54.84	1.00	130	130	ND<170	---	18	1.0	4.1	3.65	ND<1.0	ND<1.0-20	2.8
	3/25/2003		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
	6/19/2003		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
	9/24/2003		49.25	6.59	2,400	140	ND<170	---	840	25	120	14.2	ND<1.0	ND<1.0-20	0.54
	12/18/2003		54.32	1.52	400	ND<50	ND<170	---	110	3.4	15	5.1	ND<1.0	ND<1.0-20	0.47
	3/23/2004		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
	6/29/2004		51.09	4.75	230	ND<50	ND<170	---	80	1.4	3.4	0.79	ND<3.0	---	1.59
	9/23/2004		48.60	7.24	3,400	84	---	---	1,900	29	16	20	ND<35	---	0.51
	12/14/2004		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
	4/27/2005		53.64	2.20	ND<50	210	---	---	1.1	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.99
	6/20/2005		53.52	2.32	ND<50	910	---	---	21	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.20
	9/29/2005		49.04	6.80	450	180	---	---	100	1.9	1.7	0.89	ND<3.0	---	3.10
	12/29/2005		55.40	0.44	ND<50	160	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	33.32

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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-30		55.09													
	1/31/2003		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
	3/26/2003		54.77	0.32	33,000	430	ND<170	---	13,000	150	1,200	714	ND<50	ND<50-1,000	2.69
	6/19/2003		51.68	3.41	29,000	710	ND<170	---	12,000	150	1,300	753	ND<4.0	ND<1.0-20	2.2
	9/24/2003		48.08	7.01	34,000	550	ND<170	---	14,000	150	540	416	ND<50	ND<50-1,000	1.14
	12/18/2003		53.56	1.53	39,000	220	ND<170	---	16,000	140	790	523	ND<50	ND<50-1,000	0.52
	3/23/2004		52.68	2.41	23,000	170	ND<170	---	7,600	110	830	409	ND<4.0	ND<1-10	0.22
	6/29/2004		50.47	4.62	29,000	860	ND<170	---	10,000	250	880	507	ND<360	---	0.79
	7/20/2004		49.32	5.77	31,000	280	---	---	9,400	230	840	437	ND<300	---	0.57
	8/24/2004		47.62	7.47	33,000	310	---	---	10,000	190	630	273	ND<300	---	1.30
	9/23/2004		46.60	8.49	20,000	370	---	---	6,200	150	470	576	ND<300	**F-Hyde = 59** **A-Hyde = 32** Cr = ND<10	---
	10/21/2004		50.57	4.52	31,000	590	---	---	9,100	300	1,400	870	ND<300	---	0.32
	11/16/2004		51.04	4.05	30,000	740	---	---	9,200	320	2,000	930	ND<300	---	0.58
	12/14/2004		52.41	2.68	26,000	840	---	---	7,300	270	1,300	810	ND<300	**Iron = 21,000**	---
	1/11/2005		54.36	0.73	25,000	600	---	---	8,100	310	1,200	920	ND<300	**Iron = 17,000**	0.22
	2/15/2005		53.84	1.25	22,000	770	---	---	6,100	200	890	670	ND<300	---	0.41
	3/30/2005		54.52	0.57	18,000	580	---	---	5,600	180	800	590	ND<300	---	0.43
	4/27/2005		52.94	2.15	19,000	530	---	---	4,500	180	680	532	ND<300	---	0.19
	5/24/2005		52.98	2.11	12,000	830	---	---	3,100	150	530	400	ND<300	---	0.31
	6/20/2005		53.09	2.00	14,000	560	---	---	3,900	150	570	463	ND<150	---	0.32
	8/11/2005		49.85	5.24			Intrinsics Only								0.31
	8/30/2005		49.06	6.03			Intrinsics Only								0.38
	9/29/2005		47.60	7.49	4,700	270	---	---	1,900	31	51	45	ND<30	---	0.36
	10/24/2005		47.48	7.61			Measure DTW							Dissolved Metals= ND<10-20	
	11/23/2005		50.74	4.35			Intrinsics Only								0.80
	12/29/2005		54.66	0.43	5,600	230	---	---	3,300	24	23	96	ND<30	Dissolved Metals= ND<10-20, Bromate=ND<50	0.37
	1/25/2006		52.66	1.64			Intrinsics Only								0.63
MW-31		54.61													
	1/31/2003		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
	3/27/2003		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
	9/23/2003		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
	3/23/2004		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
	9/22/2004		42.89	11.72	3,200	190	ND<170	---	940	24	6.9	7.5	ND<30	---	0.30
	3/30/2005		52.49	2.12	1,100	82	ND<170	---	240	ND<20	ND<5.0	ND<5.0	ND<8.0	---	0.44
	4/26/2005		49.65	4.96	1,000	83	---	---	270	7.9	ND<5.0	ND<5.0	ND<7.0	---	0.49
	5/1/2405		49.67	4.94	1,500	140	ND<170	---	330	ND<20	ND<6.0	ND<6.0	ND<10	---	0.30
	6/27/2005		48.51	6.10	860	110	ND<170	---	190	ND<10	ND<4.0	ND<3.0	ND<6.0	---	0.59
	7/28/2005		47.30	7.31	980	140	---	---	210	6.3	ND<3.0	ND<3.0	ND<6.0	---	0.64
	12/8/2005		48.31	6.30	1,100	140	---	---	200	3.0	0.96	1.2	ND<1.0	---	0.36

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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-32		54.63													
	1/31/2003		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
	3/27/2003		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
	9/23/2003		44.78	9.85	**3,500**	**120**	**180**	---	**620**	**7.0**	**2.4**	**3.46**	ND<1.0	ND<1.0-20	0.00
	3/23/2004		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
	9/22/2004		41.95	12.68	**1,400**	**72**	ND<170	---	**450**	ND<15	**4.0**	ND<12.5	ND<10	---	0.30
	3/30/2005		52.14	2.49	**2,000**	**160**	ND<170	---	**680**	**13.0**	ND<10	ND<15.0	ND<20	---	0.32
	4/26/2005		50.34	4.29	**2,400**	**150**	---	---	**630**	**15**	ND<12	ND<12	ND<20	---	0.57
	5/24/2005		49.29	5.34	**2,100**	**170**	ND<170	---	**640**	**13**	ND<10	ND<10	ND<20	---	0.36
	6/27/2005		47.71	6.92	**1,900**	**160**	ND<170	---	**600**	**12**	ND<10	ND<10	ND<20	---	0.52
	7/28/2005		47.16	7.47	**2,600**	**190**	---	---	**590**	**15**	ND<10	ND<10	ND<6.0	---	0.28
	12/8/2005		47.49	7.14	**2,000**	**190**	---	---	**450**	**7.2**	**2.0**	**3.56**	ND<1.0	---	0.35
MW-33		55.79													
	1/31/2003		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
	3/25/2003		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
	6/19/2003		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
	9/24/2003		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
	12/18/2003		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	---
	3/23/2004		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
	6/29/2004		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
	9/23/2004		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
	12/14/2004		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
	4/27/2005		53.56	2.23	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.62
	6/20/2005		53.62	2.17	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.31
	9/29/2005		48.85	6.94	ND<50	ND<50	---	---	**2.3**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.12
	12/29/2005		55.18	0.61	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	0.46
MW-34		54.07													
	1/31/2003		49.07	5.00	**15,000**	**120**	ND<170	---	**690**	**970**	**110**	**1,090**	ND<25	**TAME=22** All others ND	4.3
	3/25/2003		49.02	5.05	**14,000**	**190**	ND<170	---	**380**	**580**	**440**	**730**	ND<40	**TAME=10** All others ND	3.41
	6/19/2003		46.17	7.90	**4,500**	**320**	ND<170	---	**300**	**200**	**260**	**242**	ND<40	**TAME=9.1** All others ND	3.6
	9/24/2003		42.40	11.67	**8,200**	**360**	ND<170	---	**450**	**76**	**360**	**197**	ND<16	**TAME=2.5** All others ND	1.08
	12/18/2003		48.56	5.51	**9,100**	**200**	ND<170	---	**400**	**320**	**380**	**350**	ND<10	**TAME=1.7** All others ND	0.62
	3/23/2004		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
	6/29/2004		46.62	7.45	**11,000**	**530**	ND<170	---	**540**	**200**	**640**	**505**	ND<300	---	0.56
	7/20/2004		43.54	10.53	**9,100**	**230**	---	---	**490**	**120**	**380**	**220**	ND<300	---	0.57
	8/24/2004		42.35	11.72	**11,000**	**320**	---	---	**490**	**84**	**390**	**248**	ND<400	---	1.97

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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-34 Cont'd														
	9/23/2004		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
	10/21/2004		46.53	7.54	**8,200**	**260**	---	---	**260**	**99**	**160**	**410**	ND<300	---	0.59
	11/16/2004		47.82	6.25	**8,500**	**340**	---	---	**250**	**110**	**170**	**438**	ND<300	---	0.48
	12/14/2004		47.58	6.49	**4,100**	**260**	---	---	**160**	**73**	**130**	**200**	ND<170	**Iron = 3,500**	---
	1/11/2005		51.26	2.81	**5,300**	**380**	---	---	**170**	**69**	**130**	**295**	ND<180	**Iron = 3,900**	0.39
	2/15/2005		48.61	5.46	**3,400**	**310**	---	---	**120**	**39**	**120**	**167**	ND<100	---	0.37
	3/30/2005		51.43	2.64	**5,500**	**190**	---	---	**95**	**58**	**120**	**255**	ND<180	---	0.54
	4/27/2005		47.38	6.69	**4,200**	**290**	---	---	**74**	**41**	**110**	**179**	ND<100	---	0.51
	5/24/2005		47.65	6.42	**5,000**	**450**	---	---	**82**	**52**	**150**	**241**	ND<180	---	0.42
	6/20/2005		48.22	5.85	**8,500**	**570**	---	---	**59**	**64**	**130**	**366**	ND<150	---	0.37
	8/11/2005		44.73	9.34			Intrinsics Only								0.48
	8/30/2005		43.06	11.01			Intrinsics Only								0.40
	9/29/2005		41.95	12.12	**4,700**	**300**	---	---	**61**	**20**	**50**	**37.6**	ND<100	---	0.62
	10/24/2005		42.49	11.58			Measure DTW							Dissolved Metals= ND<10-20	
	11/23/2005						Intrinsics Only								0.77
	12/29/2005		53.27	0.80	**5,100**	**420**	---	---	**79**	**28**	**67**	**111**	ND<100	Dissolved Metals= ND<10-20, Bromate=ND<10	3.57
	1/25/2006		49.45	4.85			Intrinsics Only								0.54
MW-35		54.46													
	1/31/2003		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
	3/25/2003		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
	6/19/2003		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
	9/24/2003		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
	12/18/2003		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	---
	3/23/2004		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
	6/29/2004		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
	9/23/2004		43.52	10.94	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**12**	---	0.32
	12/14/2004		49.21	5.25	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**11**	**Iron = 3,600**	---
	4/27/2005		48.45	6.01	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**10**	---	0.33
	6/20/2005		49.49	4.97	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**10**		0.54
	9/29/2005		43.46	11.00	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**12**	---	0.67
	12/29/2005		53.24	1.22	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**8.5**	---	1.85

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No 4629.02/04; CRWQCB Case No. 1THU116

WELL/ Date	Sample	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-36		54.50													
	1/31/2003		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
	3/25/2003		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
	6/19/2003		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
	9/24/2003		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
	12/18/2003		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	---
	3/23/2004		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
	6/29/2004		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
	9/23/2004		43.01	11.49	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**11**	---	0.31
	12/14/2004		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**	---
	4/27/2005		48.70	5.80	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.8**	---	0.38
	6/20/2005		49.44	5.06	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**6.2**	---	0.35
	9/29/2005		42.98	11.52	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**8.9**	---	0.43
	12/29/2005		53.43	1.07	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.7**	---	1.33
MW-37		55.85													
	1/31/2003		44.57	11.28	**1,100**	**51**	ND<170	---	**74**	**3.3**	**18**	**39.8**	ND<1.0	ND<1.0-20	5.56
	3/25/2003		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
	6/19/2003		51.90	3.95	--- No Sample Collected ---										---
	9/24/2003		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
	12/18/2003		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
	3/23/2004		52.97	2.88	**120**	ND<50	**180**	---	**2.8**	ND<0.50	**0.98**	**0.63**	**4.3**	ND<1-10	0.46
	6/29/2004		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
	9/23/2004		46.68	9.17	ND<50	ND<50	---	---	**1.5**	ND<0.50	ND<0.50	ND<0.50	ND<10	---	0.16
	12/14/2004		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
	4/27/2005		53.21	2.64	ND<50	ND<50	---	---	**0.82**	ND<0.50	ND<0.50	ND<0.50	**5.2**	---	0.66
	6/20/2005		52.49	3.36	ND<50	ND<50	---	---	**1.0**	ND<0.50	ND<0.50	ND<0.50	**5.8**	---	0.85
	9/29/2005		48.26	7.59	ND<50	ND<50	---	---	**11**	ND<0.50	ND<0.50	ND<0.50	**4.5**	---	0.22
	12/29/2005		54.99	0.86	ND<50	**58**	---	---	**0.56**	ND<0.50	ND<0.50	ND<0.50	**4.8**	---	0.52
MW-38		55.81													
	1/31/2003		53.99	1.82	**7,100**	**280**	ND<170	---	**2,100**	**41**	**180**	**134**	ND<1.0	ND<1.0-20	3.40
	3/25/2003		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
	6/19/2003		51.82	3.99	**3,000**	**160**	ND<170	---	**1,300**	**16**	**37**	**39.4**	**12**	**TBA=32** All others ND	3.8
	9/24/2003		48.56	7.25	**680**	**62**	ND<170	---	**130**	**2.1**	**7.0**	**3.52**	**11**	ND<1.0-20	0.31
	12/18/2003		53.81	2.00	**980**	ND<50	ND<170	---	**330**	**6.5**	**28.0**	**12.10**	**11**	ND<1.0-20	---
	3/23/2004		52.86	2.95	**640**	ND<50	ND<170	---	**150**	**2.7**	**9.9**	**5.1**	**12**	ND<1.0-26	0.40
	6/29/2004		50.67	5.14	**140**	ND<50	ND<170	---	**21**	ND<1.8	**0.70**	**0.70**	**14**	---	0.89
	7/20/2004		49.48	6.33	**270**	**56**	---	---	**40**	ND<3.0	**1.4**	**0.74**	**14**	---	0.64
	8/24/2004		47.90	7.91	**94**	ND<50	---	---	**10**	ND<1.0	**0.66**	**0.50**	**11**	---	3.28
	9/23/2004		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. 4629.02/04, CRWQCB Case No. 1THU116

WELL/ Date	Sample	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															
	10/21/2004		49.19	6.62	83	ND<50	---	---	11	ND<1.0	ND<0.50	0.50	12	---	0.55
	11/16/2004		50.68	5.13	82	ND<50	---	---	12	0.60	ND<0.50	0.58	11	---	2.87
	12/14/2004		52.54	3.27	72	ND<50	---	---	13	0.54	ND<0.50	ND<0.50	11	Iron = 150	2.78
	1/11/2005		54.52	1.29	270	ND<50	---	---	80	2.3	2.1	1.5	17	Iron = 210	1.12
	2/15/2005		53.97	1.84	250	ND<50	---	---	47	2.1	2.0	2.0	12	---	0.38
	3/30/2005		54.65	1.16	200	ND<50	---	---	28	1.5	1.3	1.2	14	---	0.66
	4/27/2005		53.01	2.80	100	ND<50	---	---	19	0.61	ND<0.50	ND<0.50	11	---	0.49
	5/24/2005		53.19	2.62	100	ND<50	---	---	16	0.87	0.80	0.57	12	---	0.44
	6/20/2005		52.70	3.11	84	65	---	---	12	0.65	0.56	ND<0.50	10	---	0.48
	8/11/2005		49.87	5.94			Intrinsics Only								0.31
	8/30/2005		49.09	6.72			Intrinsics Only								0.34
	9/29/2005		48.13	7.68	64	ND<50	---	---	10	ND<0.50	ND<0.50	ND<0.50	8.5	---	0.22
	10/24/2005		47.70	8.11			Measure DTW							Dissolved Metals= ND<10-20	
	11/23/2005		50.85	4.96			Intrinsics Only								0.93
	12/29/2005		54.88	0.93	300	75	---	---	63	2.0	2.0	2.09	12	Dissolved Metals= ND<10-20, Bromate=ND<50	0.51
	1/25/2006		51.71	2.59			Intrinsics Only								0.54
MW-39		55.24													
	1/31/2003		41.37	13.87	Did not sample, bailer dropped into well										4.79
	2/10/2003		44.34	10.90	760	53	ND<170	---	40	0.53	2.9	38.7	17	ND<1.0-20	3.5
	3/26/2003		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
	6/19/2003		51.24	4.00	1,600	ND<50	ND<170	---	22	ND<0.50	1.8	ND<0.50	16	ND<1.0-20	---
	9/24/2003		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
	12/18/2003		53.21	2.03	140	ND<50	310	---	17.0	ND<0.50	1.4	0.88	13	ND<1.0-20	0.57
	3/23/2004		52.20	3.04	170	ND<50	170	---	4.7	ND<0.50	0.95	0.56	18	ND<1-10	0.85
	6/29/2004		50.14	5.10	57	ND<50	ND<170	---	7.9	ND<0.50	1.5	0.88	17	---	0.29
	9/23/2004		46.56	8.68	ND<50	ND<50	---	---	4.3	ND<0.50	0.83	0.62	14	---	0.14
	12/14/2004		51.39	3.85	ND<50	ND<50	---	---	1.6	ND<0.50	0.51	ND<0.50	13	Iron = 10,000	0.51
	4/27/2005		53.06	2.18	ND<50	63	---	---	0.95	ND<0.50	ND<0.50	ND<0.50	14	---	0.33
	6/20/2005		52.86	2.38	ND<50	ND<50	---	---	0.88	ND<0.50	ND<0.50	ND<0.50	13	---	0.41
	9/29/2005		47.18	8.06	52	ND<50	---	---	9.60	ND<0.50	1.1	0.9	11	---	0.21
	12/29/2005		54.40	0.84	ND<50	52	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	---	0.26
MW-40		55.17													
	1/31/2003		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
	3/26/2003		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
	6/19/2003		51.36	3.81	720	ND<50	ND<170	---	110	ND<0.50	2.3	0.63	27	ND<1.0-20	---
	9/24/2003		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
	12/18/2003		52.45	2.72	150	ND<50	ND<170	---	34	ND<0.50	1.4	1.0	15	ND<1.0-20	0.83
	3/23/2004		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
	6/29/2004		48.77	6.40	74	ND<50	ND<170	---	17	ND<0.50	1.4	ND<3.7	19	---	0.31
	9/23/2004		46.27	8.90	ND<50	ND<50	---	---	8.3	ND<0.50	ND<0.50	ND<0.50	14	---	1.10
	12/14/2004		50.95	4.22	ND<50	ND<50	---	---	0.76	ND<0.50	ND<0.50	ND<0.50	11	Iron = 16,000	0.81
	4/27/2005		52.12	3.05	ND<50	ND<50	---	---	0.51	ND<0.50	ND<0.50	ND<0.50	11	---	0.36
	6/20/2005		51.31	3.86	ND<50	51	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	---	0.71
	9/29/2005		47.24	7.93	ND<50	ND<50	---	---	4.2	ND<0.50	ND<0.50	ND<0.50	10	---	0.50
	12/29/2005		54.16	1.01	ND<50	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.5	---	0.23

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No 1THU116

WELL/ Date	Sample	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-41		54.38													
	2/10/2003		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
	3/26/2003		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
	6/19/2003		49.80	4.58	**120**	ND<50	ND<170	---	**38**	ND<0.50	ND<0.50	ND<0.50	**10**	**TBA=22**	4.48
														All others ND	
	9/24/2003		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
	12/18/2003		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
	3/23/2004		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
	6/29/2004		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
	9/23/2004		45.79	8.59	ND<50	ND<50	---	---	**3.7**	ND<0.50	ND<0.50	ND<2.0	ND<10	---	1.39
	12/14/2004		51.00	3.38	ND<50	ND<50	---	---	**1.6**	ND<0.50	ND<0.50	ND<5.0	**5.5**	**Iron = 7,700**	0.45
	4/27/2005		50.60	3.78	ND<50	ND<50	---	---	**0.95**	ND<0.50	ND<0.50	ND<0.50	**5.9**	---	0.30
	6/20/2005		51.14	3.24	ND<50	**60**	---	---	**0.54**	ND<0.50	ND<0.50	ND<0.50	**6.2**	---	0.43
	9/29/2005		46.28	8.10	ND<50	ND<50	---	---	**1.0**	ND<0.50	**0.7**	**0.79**	**4.4**	---	0.26
	12/29/2005		52.79	1.59	ND<50	**67**	---	---	**0.52**	ND<0.50	ND<0.50	ND<1.5	**3.9**	---	1.61
MW-42		54.37													
	1/31/2003		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
	3/26/2003		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
	6/19/2003		49.80	4.57	**700**	ND<50	ND<170	---	**230**	ND<0.50	ND<0.50	ND<0.50	**7.8**	**TBA=41**	4.17
														All others ND	
	9/24/2003		46.84	7.53	**480**	ND<50	ND<170	---	**230**	**0.75**	**0.64**	ND<0.50	**6.5**	**TBA=31**	0.43
														All others ND	
	12/18/2003		51.96	2.41	**230**	ND<50	ND<170	---	**80**	**0.67**	ND<0.50	ND<0.50	**6.2**	ND<1.0-20	---
	3/23/2004		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
	6/29/2004		49.54	4.83	**240**	ND<50	ND<170	---	**51**	ND<1.8	ND<2.0	ND<1.5	ND<20	---	0.41
	9/23/2004		46.11	8.26	**150**	ND<50	---	---	**19**	ND<0.50	ND<2.0	ND<1.5	ND<20	---	1.40
	12/14/2004		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
	4/27/2005		50.72	3.65	**58**	ND<50	---	---	**1.5**	ND<0.50	ND<0.50	ND<0.50-1.0	**5.6**	---	0.33
	6/20/2005		50.79	3.58	**95**	**62**	---	---	**1.8**	ND<0.50	ND<0.50	ND<0.50-1.0	**7.6**	---	0.78
	9/29/2005		46.33	8.04	**71**	ND<50	---	---	**1.9**	**0.62**	**1.2**	**1.9**	**5.1**	---	0.22
	12/29/2005		53.52	0.85	ND<50	**54**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**3.9**	---	1.48

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/04; CRWQCB Case No 1THU116

WELL/ Date	Sample	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-43		54.61													
	2/10/2003		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
	3/26/2003		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
	6/19/2003		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	---
	9/24/2003		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
	12/18/2003		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
	3/23/2004		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
	6/29/2004		48.46	6.15	**1,900**	ND<50	ND<170	---	**1,100**	**1.2**	**4.2**	**3.7**	ND<60	---	1.05
	7/20/2004		48.10	6.51	**3,500**	ND<50	---	---	**2,000**	ND<5.0	ND<5.0	ND<5.0	ND<30	---	1.40
	8/24/2004		45.95	8.66	**12,000**	ND<50	---	---	**5,700**	**18**	**23**	**13.5**	ND<30	---	1.54
	9/23/2004		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
	10/21/2004		49.54	5.07	**410**	ND<50	---	---	**260**	ND<0.50	**0.80**	**0.83**	ND<30	---	0.48
	11/16/2004		50.41	4.20	**870**	**62**	---	---	**360**	**1.1**	**6.2**	**2.0**	ND<50	---	---
	12/14/2004		51.89	2.72	**1,000**	ND<50	---	---	**270**	**1.2**	**0.91**	**2.6**	ND<70	ND<100	0.14
	1/11/2005		52.98	1.63	**350**	ND<50	---	---	ND<6.0	ND<2.0	ND<0.50	**0.60**	ND<100	ND<100	0.28
	2/15/2005		52.12	2.49	**320**	ND<50	---	---	ND<4.0	ND<1.5	ND<0.50	ND<0.50	ND<40	---	0.35
	3/30/2005		52.55	2.06	**650**	ND<50	---	---	**120**	ND<2.0	ND<2.0	**1.6**	ND<80	---	0.74
	4/27/2005		52.59	2.02	**670**	**66**	---	---	**220**	**0.70**	**1.2**	**1.6**	ND<40	---	0.61
	5/24/2005		51.60	3.01	**1,100**	ND<50	---	---	**490**	**1.4**	**4.2**	**2.4**	ND<60	---	0.47
	6/20/2005		51.31	3.30	**1,800**	**59**	---	---	**980**	ND<3.0	**7.0**	**1.2**	ND<70	---	1.39
	8/11/2005		48.63	5.98			Intrinsics Only								0.54
	8/30/2005		47.09	7.52			Intrinsics Only								1.00
	9/29/2005		47.03	7.58	**1,600**	ND<50	---	---	**840**	**1.4**	**6.8**	**3.0**	ND<50	---	0.51
	10/24/2005		46.21	8.40					Measure DTW					**Vanadium=10**, other Dissolved Metals= ND<10-20	
	11/23/2005		49.78	4.83			Intrinsics Only								0.81
	12/29/2005		52.67	1.94	**500**	**53**	---	---	**68**	**0.71**	**2.8**	**1.71**	ND<50	Dissolved Metals= ND<10-20, Hexavalent Chromium= NQ, Bromate = ND<50	1.37
	1/25/2006		51.62	2.68			Intrinsics Only								0.60
MW-44		54.65													
	2/10/2003		51.15	3.50	**54,000**	**180**	ND<170	---	**22,000**	**92**	**30**	**78**	ND<1.0	**TBA=59** All others ND	3.2
	3/26/2003		53.04	1.61	**23,300**	**100**	ND<170	---	**11,000**	**26**	**59**	ND<25	ND<50	ND<50-1,000	3.86
	6/19/2003		50.52	4.13	**6,100**	**61**	ND<170	---	**3,800**	**16**	**50**	**9.3**	ND<3.0	ND<1.0-20	3.91
	9/24/2003		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
	12/18/2003		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
	3/23/2004		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
	6/29/2004		48.45	6.20	**11,000**	**81**	ND<170	---	**6,000**	**26**	**30**	**16.7**	ND<60	---	0.28
	7/20/2004		47.98	6.67	**12,000**	ND<50	---	---	**6,500**	**22**	**27**	**14.6**	ND<60	---	0.51
	8/24/2004		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. 4629.02/04; CRWQCB Case No 1THU116

WELL/ Date	Sample	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															
9/23/2004			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
10/21/2004			49.53	5.12	**3,500**	**59**	---	---	**1,600**	**4.7**	**3.7**	**6.8**	ND<40	----	0.27
11/16/2004			50.63	4.02	**3,100**	**72**	---	---	**1,700**	**6.6**	**8.4**	**9.6**	ND<60	----	0.56
12/14/2004			51.76	2.89	**3,000**	**56**	---	---	**1,400**	**4.7**	**5.6**	**6.5**	ND<40	**Iron = 3,500**	0.29
1/11/2005			53.66	0.99	**4,000**	**57**	---	---	**2,200**	**7.1**	**1.6**	**9.0**	ND<80	**Iron = 4,600**	0.36
2/15/2005			52.10	2.55	**2,900**	**55**	---	---	**1,400**	**4.8**	**2.3**	**6.0**	ND<50	---	0.36
3/30/2005			53.26	1.39	**3,600**	ND<50	---	---	**1,800**	**6.7**	**4.3**	**7.1**	ND<70	---	0.39
4/27/2005			51.51	3.14	**4,500**	**82**	---	---	**2,300**	**9.8**	**8.5**	**8.3**	ND<50	---	0.75
5/24/2005			51.69	2.96	**4,800**	ND<50	---	---	**2,900**	**13**	**13**	**10.6**	ND<60	---	0.48
6/20/2005			51.45	3.20	**6,800**	**71**	---	---	**3,900**	**15**	**12**	**11.4**	ND<60	---	0.29
8/11/2005			48.64	6.01			Intrinsics Only								0.48
8/30/2005			47.50	7.15			Intrinsics Only								0.70
9/29/2005			46.17	8.48	**5,600**	**73**	---	---	**2,800**	**14**	**24**	**12.5**	ND<50	---	0.81
10/24/2005			46.63	8.02					Measure DTW					**Vanadium=12**, other Dissolved Metals= ND<10-20	
11/23/2005			50.17	4.48			Intrinsics Only								0.60
12/29/2005			53.81	0.84	**1,800**	**67**	---	---	**740**	**3.8**	**9.4**	**5.2**	ND<40	**Vanadium=10**, other Dissolved Metals= ND<10-20, Bromate=ND<50	0.75
1/25/2006			51.51	2.79			Intrinsics Only								0.62
Duplicate Samples															
MW-13															
1/4/2001					**6,800**	---	---	---	**580**	**340**	**300**	**281**	**4.4**	---	---
MW-13															
4/12/2001					**240**	---	---	---	**35**	**2.9**	**4.2**	**8.06**	ND<0.50	---	---
MW-6															
7/10/2001					ND<50	---	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**32**	---	---
MW-19															
11/1/2001					ND<50	---	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20	---
MW-9															
11/1/2001					**900**	---	---	---	**330**	**3.1**	**0.60**	**0.72**	ND<1.0	ND<1.0-20	---
MW-44															
12/29/2005					**1,800**	---	---	---	**740**	**3.1**	**7.6**	**4**	ND<30	---	---

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
Dissolved Metals = Hexavalent Chromium, Molybdenum, Vanadium, and Selenium
Cr - Dissolved Chromium
COD - Chemical oxygen demand
All results reported in micrograms per liter (µg/L)
ND<50 - non-detect at reporting limits shown
NQ = Non-Quantifiable
--- = sample not analyzed for parameter
* - sample broken in laboratory and not analyzed

TABLE 2: OZONE AND OXYGEN INJECTION RECORDS
Former Shell Bulk Plant
400 Eigth Street, Fortuna
LACO Project No. 4629.04; CRWQCB Case No. 1THU116

IN-SITU CHEMICAL OXIDATION REMEDIATION SYSTEM HISTORY						
Units 2 and 3 (C-Sparger #2 & #5)						
Remediation Unit	**Date**	**Ozone Master Panel Runtime Indicator (hr)**	**Ozone Injection Interval (hr)**	**Ozone Injection Rate (g/hr)**	**Total Ozone Injected per Interval (kg)**	**Total Ozone (kg)**
C-Sparger #2						
	7/2/2004 (startup)	7,497	0.0	4.0	0.00	0.00
	7/6/2004	7,527.8	30.9	4.0	0.12	0.12
	7/8/2204	7561.06	33.3	4.0	0.13	0.26
	7/21/2004	7576.46	15.4	4.0	0.06	0.32
	8/3/2004	7656.83	80.4	4.0	0.32	0.64
	8/12/2004	7659.18	2.4	4.0	0.01	0.65
	8/24/2004	7808.1	148.9	4.0	0.60	1.24
	9/8/2004	System Off				
C-Sparger #5						
	11/4/2004	7.01	0.0	4.0	0.00	1.24
	11/5/2004	16.65	9.6	4.0	0.04	1.28
	11/18/2004	269.44	252.8	4.0	1.01	2.29
	11/30/2004	System Off				
	4/15/2005	377.23	107.8	4.0	0.43	2.73
	7/8/2005	389.21	12.0	4.0	0.05	2.77
	7/11/2005	499.47	110.3	4.0	0.44	3.21
	7/12/2005	504.25	4.8	4.0	0.02	3.23
	7/18/2005	544.00	39.8	4.0	0.16	3.39
	8/9/2005	783.52	239.5	4.0	0.96	4.35
	8/16/2005	885.62	102.1	4.0	0.41	4.76
	8/23/2005	983.2	97.6	4.0	0.39	5.15
	9/7/2005	1012.8	29.6	4.0	0.12	5.27
	10/25/2005	1719.1	706.3	4.0	2.83	8.09
	11/10/2005	1861.97	142.9	4.0	0.57	8.66
	11/18/2005	1876.95	15.0	4.0	0.06	8.72
	11/29/2005	2050.4	173.5	4.0	0.69	9.42
	12/28/2005	2371.59	321.2	4.0	1.28	10.70
	1/6/2006	2371.84	0.3	4.0	0.00	10.70
	1/19/2006	2475.74	103.9	4.0	0.42	11.12

TABLE 2: OZONE AND OXYGEN INJECTION RECORDS
Former Shell Bulk Plant
400 Eigth Street, Fortuna
LACO Project No. 4629.04; CRWQCB Case No. 1THU116

IN-SITU CHEMICAL OXIDATION REMEDIATION SYSTEM HISTORY, continued						
Unit 1 (102-M, LACO Master Panel, Oxygen Concentrator #5)						
Remediation Unit	**Date**	**Master Panel Runtime Indicator (hr)**	**Oxygen Injection Interval (hr)**	**Oxygen Injection Rate (g/hr)**	**Oxygen Injected per Interval (kg)**	**Total Oxygen (kg)**
M-102 Air Compressor						
	7/2/2004	0	0	6.79	0.00	0.00
	7/6/2004	96	96	6.79	0.65	0.65
	7/8/2004	144	48	6.79	0.33	0.98
	7/21/2004	456	312	6.79	2.12	3.10
	8/3/2004	768	312	6.79	2.12	5.21
	Reset Runtime Indicator					
	8/12/2004	0.73	0	6.79	0.00	5.21
	8/24/2004	1.89	1.16	6.79	0.01	5.22
	9/8/2004	380.21	378.32	6.79	2.57	7.79
	9/23/2004	707	326.79	6.79	2.22	10.01
	10/6/2004	1017.57	310.57	6.79	2.11	12.12
	10/21/2004	1370.73	353.16	6.79	2.40	14.52
Oxygen Concentrator #5						
	10/26/2004	1489.6	118.87	3023.93	359.45	373.97
	Reset Runtime Indicator					
	10/26/2004	0.1	0	3023.93	0.00	373.97
	11/4/2005	164.5	164.4	3023.93	497.13	871.11
	11/5/2004	179.4	14.9	3023.93	45.06	916.16
	11/18/2004	395.2	215.8	3023.93	652.56	1568.73
	11/30/2004	System Off				
	12/16/2004	634.1	0	3023.93	0.00	1568.73
	4/15/2005	634.2	0.1	3023.93	0.30	1569.03
	Reset Runtime Indicator					
	5/4/2005	0	0	3023.93	0.00	1569.03
	5/11/2005	168	168	3023.93	508.02	2077.05
	5/25/2005	336	168	3023.93	508.02	2585.07
	6/9/2005	360	24	3023.93	72.57	2657.64
	7/8/2005	696	336	3023.93	1016.04	3673.68
	7/11/2005	768	72	3023.93	217.72	3891.41
	7/12/2005	792	24	3023.93	72.57	3963.98
	7/18/2005	936	144	3023.93	435.45	4399.43
	8/9/2005	1464	528	3023.93	1596.64	5996.06
	8/16/2005	1632	168	3023.93	508.02	6504.08
	9/7/2005	2160	528	3023.93	1596.64	8100.72
	10/25/2005	3312	1152	3023.93	3483.57	11584.28
	11/10/2005	3696	384	3023.93	1161.19	12745.47
	11/18/2005	3888	192	3023.93	580.59	13326.07
	11/29/2005	4152	264	3023.93	798.32	14124.39
	12/28/2005	4848	696	3023.93	2104.66	16229.04
	1/6/2006	5064	216	3023.93	653.17	16882.21
	1/19/2006	5376	312	3023.93	943.47	17825.68

TABLE 3: FIELD INTRINSIC INDICATOR RESULTS (DO AND ORP)
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.04; CRWQCB Case No. 1THU116

Well ID / Sample Date	ORP (mV)	DO (mg/L)
MW1A		
9/23/2004	Ur	0.27
11/16/2004	---	---
12/14/2004	-49	0.49
4/27/2005	-63	0.38
6/20/2005	-67	0.35
9/29/2005	-88	0.68
12/28/2005	5	0.44
MW15		
9/23/2004	---	---
11/16/2004	---	---
12/14/2004	---	---
4/27/2005	---	---
6/20/2005	---	---
9/29/2005	---	---
12/28/2005	---	---
MW16		
9/23/2004	---	---
11/16/2004	---	---
12/14/2004	---	---
4/27/2005	---	---
6/20/2005	---	---
9/29/2005	---	---
12/28/2005	---	---
MW19		
9/23/2004	---	---
11/16/2004	---	---
12/14/2004	---	---
4/27/2005		
6/20/2005	---	---
9/29/2005	---	---
12/28/2005	---	---
MW20		
9/23/2004	---	---
11/16/2004	---	---
12/14/2004	---	---
4/27/2005	---	---
6/20/2005	---	---
9/29/2005	---	---
12/28/2005	---	---
MW23		
9/23/2004	---	---
11/16/2004	---	---
12/14/2004	-15	0.99
4/27/2005	10	0.58
6/20/2005	30	5.76
9/29/2005	---	---
12/28/2005	63	2.79

TABLE 3: FIELD INTRINSIC INDICATOR RESULTS (DO AND ORP)
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.04; CRWQCB Case No. 1THU116

Well ID / Sample Date	ORP (mV)	DO (mg/L)
MW24		
9/23/2004	---	---
11/16/2004	---	---
12/14/2004	12	3.07
4/27/2005	22	0.41
6/20/2005	76	8.05
9/29/2005	---	---
12/28/2005	15	5.62
MW25		
9/23/2004	-59	0.59
11/16/2004	---	---
12/14/2004	Ur	0.37
4/27/2005	-37	0.70
6/20/2005	-57	0.34
9/29/2005	-87	0.59
12/28/2005	30	0.35
MW27		
7/20/2004	-83	0.57
8/24/2004	Ur	1.38
9/8/2004	Ur	0.35
9/23/2004	Ur	2.15
10/21/2004	-90	0.90
11/16/2004	Ur	0.55
12/14/2004	Ur	0.45
1/11/2005	Ur	0.40
2/15/2005	Ur	0.48
3/30/2005	Ur	0.49
4/27/2005	Ur	0.34
5/24/2005	-92	0.43
6/20/2005	43	0.31
8/11/2005	-82	0.64
8/30/2005	-68	0.64
9/29/2005	-112	0.92
10/24/2005	not enough water to sample intrinsics	
11/23/2005	91	6.47
12/28/2005	26	3.73
1/25/2006	6	0.81
MW28		
7/20/2004	Ur	0.63
8/24/2004	Ur	1.67
9/8/2004	Ur	0.62
9/23/2004	---	---
10/21/2004	43	1.45
11/16/2004	Ur	0.70
12/14/2004	-94	0.45
1/11/2005	Ur	0.39
2/15/2005	Ur	0.46
3/30/2005	Ur	0.51
4/27/2005	-66	0.89
5/24/2005	-92	0.33
6/20/2005	-51	0.37
8/11/2005	-81	0.44
8/30/2005	-31	2.56
9/29/2005	-39	5.79
10/24/2005	not enough water to sample intrinsics	
11/23/2005	72	5.24
12/28/2005	-57	0.9
1/25/2006	Ur	0.78

TABLE 3: FIELD INTRINSIC INDICATOR RESULTS (DO AND ORP)
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.04; CRWQCB Case No. 1THU116

Well ID / Sample Date	ORP (mV)	DO (mg/L)
MW29		
9/23/2004	-93	0.51
11/16/2004	---	---
12/14/2004	-8	4.05
4/27/2005	-7	0.99
6/20/2005	-45	0.2
9/29/2005	-56	3.1
12/28/2005	92	33.32
MW30		
7/20/2004	Ur	0.57
8/24/2004	Ur	1.30
9/8/2004	Ur	0.32
9/23/2004	---	---
10/21/2004	Ur	0.32
11/16/2004	Ur	0.58
12/14/2004	Ur	0.52
1/11/2005	Ur	0.22
2/15/2005	Ur	0.41
3/30/2005	Ur	0.43
4/27/2005	-85	0.19
5/24/2005	-56	0.31
6/20/2005	-86	0.32
8/11/2005	-91	0.31
8/30/2005	-55	0.38
9/29/2005	-92	0.36
10/24/2005	Ur	0.51
11/23/2005	Ur	0.8
12/28/2005	28	0.37
1/25/2006	-28	0.63
MW33		
9/23/2004	-23	0.26
11/16/2004	---	---
12/14/2004	-48	0.41
4/27/2005	-12	0.62
6/20/2005	-29	0.31
9/29/2005	-5	0.12
12/28/2005	38	0.46
MW34		
7/20/2004	-33	0.57
8/24/2004	Ur	1.97
9/8/2004	-42	0.52
9/23/2004	-31	0.96
10/21/2004	-44	0.59
11/16/2004	-76	0.48
12/14/2004	Ur	1.14
1/11/2005	-84	0.39
2/15/2005	-92	0.37
3/30/2005	-79	0.54
4/27/2005	-94	0.51
5/24/2005	-54	0.42
6/20/2005	-21	0.37
8/11/2005	-38	0.48
8/30/2005	-17	0.40
9/29/2005	-77	0.62
10/24/2005	-73	0.5
11/23/2005	-56	0.93
12/28/2005	-55	3.57
1/25/2006	-70	0.54

TABLE 3: FIELD INTRINSIC INDICATOR RESULTS (DO AND ORP)
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.04; CRWQCB Case No. 1THU116

Well ID / Sample Date	ORP (mV)	DO (mg/L)
MW35		
9/23/2004	-41	0.32
11/16/2004	---	---
12/14/2004	Ur	0.51
4/27/2005	-73	0.33
6/20/2005	-18	0.54
9/29/2005	-65	0.67
12/28/2005	-21	1.85
MW36		
9/23/2004	-4	0.31
11/16/2004	---	---
12/14/2004	-53	0.74
4/27/2005	-74	0.38
6/20/2005	-49	0.35
9/29/2005	-71	0.43
12/28/2005	-59	1.33
MW37		
9/23/2004	-4	0.16
11/16/2004	---	---
12/14/2004	-17	0.45
4/27/2005	15	0.66
6/20/2005	-3.0	0.85
9/29/2005	-6	0.22
12/28/2005	113	0.52
MW38		
7/20/2004	12	0.64
8/24/2004	59	3.28
9/8/2004	59	0.77
9/23/2004	53	0.85
10/21/2004	47	0.55
11/16/2004	55	2.87
12/14/2004	61	2.78
1/11/2005	26	1.12
2/15/2005	-53	0.38
3/30/2005	-55	0.66
4/27/2005	-5	0.49
5/24/2005	-12	0.44
6/20/2005	-35	0.48
8/11/2005	-39	0.31
8/30/2005	6	0.34
9/29/2005	-1	0.22
10/24/2005	-57	0.85
11/23/2005	-72	0.93
12/28/2005	93	0.51
1/25/2006	-73	0.54
MW39		
9/23/2004	-54	0.14
11/16/2004	---	---
12/14/2004	-60	0.51
4/27/2005	-31	0.33
6/20/2005	-49	0.41
9/29/2005	-32	0.21
12/28/2005	36	0.26

TABLE 3: FIELD INTRINSIC INDICATOR RESULTS (DO AND ORP)
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.04; CRWQCB Case No. 1THU116

Well ID / Sample Date	ORP (mV)	DO (mg/L)
MW40		
9/23/2004	-91	1.10
11/16/2004	---	---
12/14/2004	-69	0.81
4/27/2005	-39	0.36
6/20/2005	-47	0.71
9/29/2005	-59	0.5
12/28/2005	64	0.23
MW41		
9/23/2004	Ur	1.39
11/16/2004	---	---
12/14/2004	-48	0.45
4/27/2005	-51	0.30
6/20/2005	0.33	0.43
9/29/2005	-55	0.26
12/28/2005	-90	1.61
MW42		
9/23/2004	-92	1.40
11/16/2004	---	---
12/14/2004	-77	0.43
4/27/2005	-75	0.33
6/20/2005	-65	0.78
9/29/2005	-82	0.22
12/28/2005	-41	1.48
MW43		
7/20/2004	-64	1.40
8/24/2004	Ur	1.54
9/8/2004	-60	0.29
9/23/2004	-61	2.19
10/21/2004	-33	0.48
11/16/2004	-18	0.79
12/14/2004	7	0.14
1/11/2005	31	0.28
2/15/2005	6	0.35
3/30/2005	-42	0.74
4/27/2005	-38	0.61
5/24/2005	-56	0.47
6/20/2005	-69	1.39
8/11/2005	-50	0.54
8/30/2005	-41	1.00
9/29/2005	-80	0.51
10/24/2005	-47	1.68
11/23/2005	-55	0.81
12/28/2005	-90	1.37
1/25/2006	-80	0.6

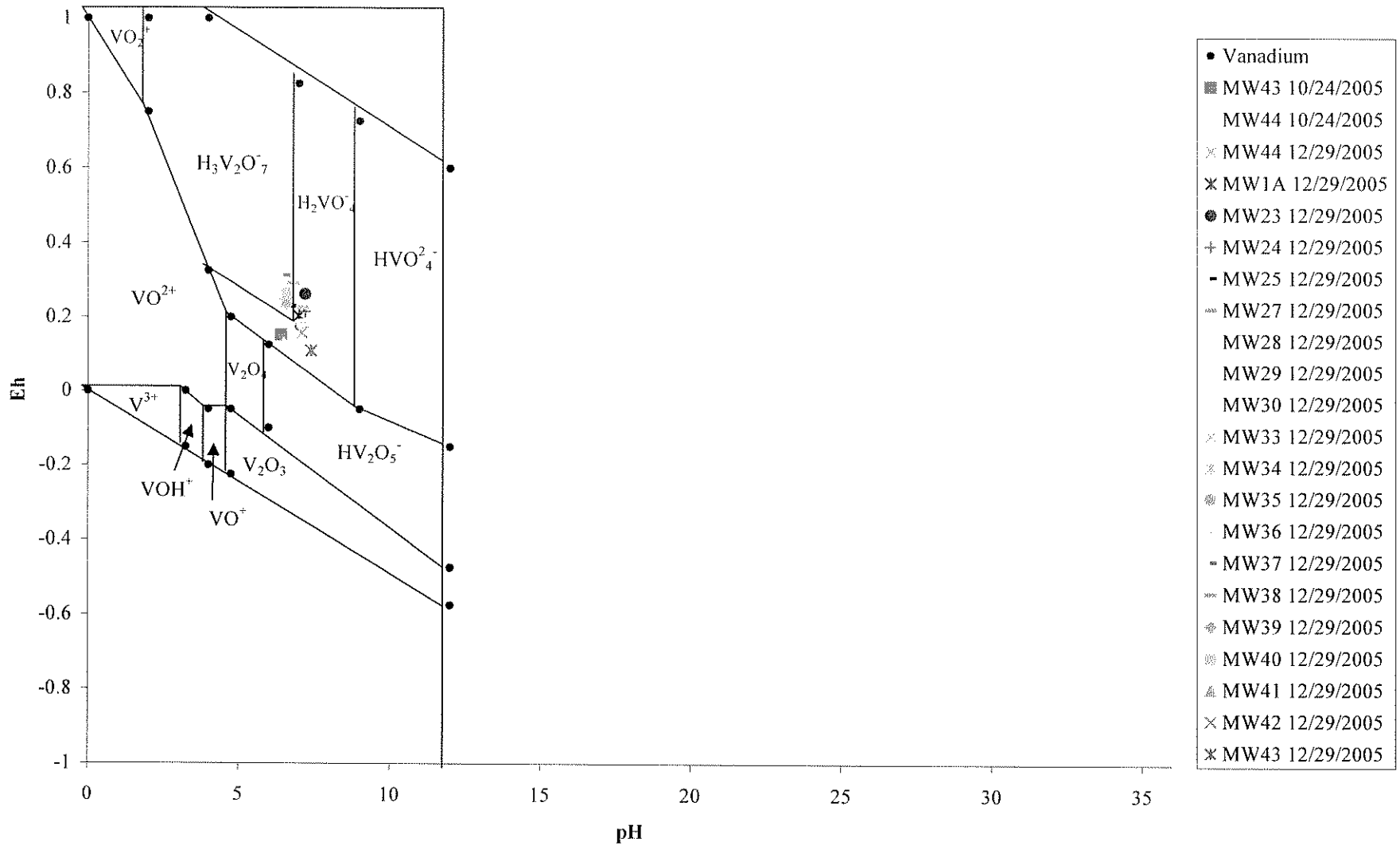
TABLE 3: FIELD INTRINSIC INDICATOR RESULTS (DO AND ORP)
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.04; CRWQCB Case No. 1THU116

Well ID / Sample Date	ORP (mV)	DO (mg/L)
MW44		
7/20/2004	-63	0.51
8/24/2004	Ur	2.59
9/8/2004	-49	1.65
9/23/2004	-57	2.04
10/21/2004	-31	0.27
11/16/2004	-23	0.56
12/14/2004	-37	0.29
1/11/2005	-46	0.36
2/15/2005	-82	0.36
3/30/2005	-55	0.39
4/27/2005	-45	0.75
5/24/2005	-42	0.48
6/20/2005	-38	0.29
8/11/2005	-42	0.48
8/30/2005	-44	0.70
9/29/2005	-60	0.81
10/24/2005	-70	2.44
11/23/2005	-83	0.60
12/28/2005	-88	0.75
1/25/2006	-91	0.62

Notes:
DO - Dissolved Oxygen (mg/L)
ORP - Oxygen Reduction Potential (mV)
Ur - Under range of instrument

Chart 1: Vanadium Phase Diagram
Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.04; CRWQCB CAse No. 1THU116

Vanadium Phase Diagram



Attachment 1

KEY TO ABBREVIATIONS
Former Shell Bulk Plant
LACO Project No. 4629.03

Case No. 1THU116	**KEY TO ABBREVIATIONS**
Alk	-- Alkalinity
As	-- Arsenic
BTEX	-- Benzene; Toluene; Ethylbenzene; m,p- and o- Xylenes
Cam Pump	--
Cl	-- Chloride
CO_2	-- Carbon dioxide
COC	-- Chain of custody
Cr	-- Chromium
DHP	-- Down-hole-pump (submersible pump)
DIPE	-- Di-isopropyl Ether
Dis	-- Dissolved
DO	-- Dissolved Oxygen; accuracy range of the DO meter is ± 0.3 mg/L
DTW	-- Depth-to-Water
ECw	-- Electrical Conductivity in water; accuracy range of the ECw meter is ± 20 µmohs
ETBE	-- Ethyl Tertiary Butyl Ether
Fe	-- Iron
FP	-- Free Product
Mn	-- Manganese
MTBE	-- Methyl Tertiary Butyl Ether
N	-- Nitrogen
ND<50	-- non-detect at reporting limits shown
NO_3	-- Nitrate
NOT ACTIVE	-- Sample not analyzed for parameter during current sampling event
ORP	-- Oxidation Reduction Potential; accuracy range of the ORP meter is ± 2 mV
P	-- Phosphorous
PCP/TCP	-- penta- tetra- tri- chlorophenols
pH	-- Potential of hydrogen; accuracy range of the pH meter is ± 0.2 pH
SGC	-- Silica gel cleanup
SO_4	-- Sulfate
T	-- Temperature; accuracy range of the temperature meter is ± 0.5 °C
T&P	-- Tape and Paste
TAME	-- Tertiary Amyl Methyl Ether
TBA	-- Tetiary Butyl Alcohol
TBF	-- Tertiary Butyl Formate
TIC	-- Total Inorganic Carbon
TOC	-- Total Organic Carbon
Tot	-- Total
TPHd	-- Total Petroluem Hydrocarbons as Diesel
TPHg	-- Total Petroluem Hydrocarbons as Gasoline
TPHk	-- Total Petroluem Hydrocarbons as Kerosene
TPHmo	-- Total Petroluem Hydrocarbons as Motor Oil
TPHs	-- Total Petroluem Hydrocarbons as Solvent
µg/L	-- Micro grams per liter (parts per billion)

Attachment 2

LACO ASSOCIATES
CONSULTING ENGINEERS

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

Project Name: **Former Shell Bulk Plant - PFP**
Project No.: **4629.03**
Date: 10-24-05
Golbal ID No.: **T0602300107**
PM: **CJW**

Tech: RLD
Mob/Demob time: .50/.50
Travel time: 1.0
Time on site: 9:00
Time off site: 4:30
Mileage: 96

WELL No.:	MW27		MW28		MW30		MW34		MW38	
DIAMETER (in)	2.00		2.00		2.00		1.50		1.50	
SCREENED INTERVAL (ft)	5-10		5-10		5-10		14-18		12-14	
DEPTH TO WATER (ft)	7.36		8.19		7.61		11.58		8.11	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS pH	6.4	—			6.4	6.4	6.6	6.4	6.4	6.5
TEMP (°C)	17.9	—			17.1	18.7	16.0	15.9	16.9	18.6
Ecw (µmohs)	826	—			695	688	488	488	701	678
ORP (mV)	-79	—			-95	[illegible]	-74	-73	-43	-57
DO (mg/L)	1.28	—			0.55	[illegible]	0.65	0.50	1.02	0.85
OTHER (units)	—		—		—		—		—	
PURGE TIME	10:29	11:00			3:05	3:15	[illegible]	3:45	2:41	2:47
METHOD (DHP/CB/B)	DHP				CAM		[illegible]		CAM	
RATE (Lpm)	—				0.15		0.25		0.17	
VOLUME (L)	—				1.5		1.5		1.0	
COLOR	GREY TURBID	GREY TURBID			CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
ODOR	MED SULFUR		LIGHT FUEL		STRONG FUEL MED SULFUR		MED FUEL		LIGHT FUEL LIGHT SULFUR	
INTAKE DEPTH (FEET)	9.0		9.0		9.0		15.0		13.0	
SAMPLE TIME										
METHOD (DHP/CB/B)										
ANALYTES	INTRINSICS ONLY		INTRINSICS ONLY		INTRINSICS ONLY		INTRINSICS ONLY		INTRINSICS ONLY	
TOTAL DRAWDOWN (FEET)	0.27		—		0.86		0.54		0.61	
REMARKS	NOT ENOUGH TO DO INTRINSICS / DISS FF		DISS CRG F.F		[illegible]		DISS CRG FF		DISS CRG FF	
WELL CONDITION	GOOD		GOOD		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

REVISED:10/3/2005

LACO ASSOCIATES
CONSULTING ENGINEERS

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

Project Name: Former Shell Bulk Plant - PFP
Project No.: 4629.03
Date: 10-24-05
Golbal ID No.: T0602300107
PM: CJW

Tech: RLD
Mob/Demob time: .50/.50
Travel time: 1.0
Time on site: 2:00
Time off site: 4:30
Mileage: 36

WELL No.:	MW43		MW44							
DIAMETER (in)	1.50		1.50							
SCREENED INTERVAL (ft)	16-18		12-15							
DEPTH TO WATER (ft)	8.40		8.02							
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	6.5	6.4	6.6	6.5						
FIELD INTRINSICS: TEMP (°C)	16.5	16.6	16.6	16.5						
FIELD INTRINSICS: Ecw (µmohs)	837	8.41	794	731						
FIELD INTRINSICS: ORP (mV)	-17	-47	-73	-74						
FIELD INTRINSICS: DO (mg/L)	0.54	1.68	0.50	[illegible]						
FIELD INTRINSICS: OTHER (units)	—		—							
PURGE: TIME	1:21	1:29	2:09	2:13						
PURGE: METHOD (DHP/CB/B)	CAM		[illegible]							
PURGE: RATE (Lpm)	0.06		5.13							
PURGE: VOLUME (L)	.50		1.0							
PURGE: COLOR	CLEAR	CLEAR	CLEAR	CLEAR						
PURGE: ODOR	[illegible]		[illegible]							
PURGE: INTAKE DEPTH (FEET)	17.0		13.5							
SAMPLE: TIME										
SAMPLE: METHOD (DHP/CB/B)										
SAMPLE: ANALYTES	INTRINSICS ONLY		INTRINSICS ONLY							
SAMPLE: TOTAL DRAWDOWN (FEET)	3.31		2.9							
SAMPLE: REMARKS	—		—							
WELL CONDITION	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: FORMER SHELL BULK PLANT PFP

Project No.: 4629.02

Tech: RLD

Date: 10-24-05

WELL ID:	METER ACCURACY RANGE				
MW43	+/- 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)
1:23	6.4	16.5	829	-45	4.58
1:25	6.5	16.7	830	-47	3.33
1:27	6.4	16.6	841	-46	1.97
1:29	6.4	16.6	841	-47	1.65

WELL ID: MW44					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
2:07	6.5	16.5	786	-71	1.51
2:09	6.5	16.7	782	-71	2.73
2:11	6.5	16.6	782	-71	2.61
2:13	6.5	16.5	781	-70	2.44

WELL ID: MW38					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
2:43	6.4	18.2	684	-50	1.06
2:45	6.5	18.5	680	-55	0.90
2:47	6.5	18.6	678	-57	0.85

WELL ID: MW30					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
3:07	6.4	18.6	698	UR	1.52
3:09	6.3	18.6	693	UR	1.30
3:11	6.3	18.7	689	UR	0.68
3:13	6.3	18.7	685	UR	0.56
3:15	6.4	18.7	685	UR	0.51

WELL ID: MW34					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
3:41	6.4	15.9	488	-73	2.59
3:43	6.4	15.9	488	-72	2.56
3:45	6.4	15.9	488	-73	2.50

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: FORMER SHELL BULK PLANT
Project No.: 4629.03
Tech: RLP
Date: 10-24-05

WELL ID: MW27		WELL ID: MW28		WELL ID: MW30		WELL ID: MW34		WELL ID: MW50		WELL ID: MW45	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:05	7.36	9:07	8.35	9:20	7.61	9:25	11.58	9:35	8.1	9:12	8.40
9:20	7.36	12:43	8.35	2:55	7.61	[illegible]	11.58	2:30	8.1	1:15	8.40

WELL ID: MW44		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)
9:14	5.02										
[illegible]	8.02										

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 West Fourth Street

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

Sampler (Sign & Print): RLD

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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	PRESERVATIVE	CONTAINER	ANALYSIS: TPHg/BTEX	ANALYSIS: TPHd w/SGC	ANALYSIS: Dissolved Cr6, Se, Va, Mo	ANALYSIS: Bromate
	4629-MW27-W	10-24-05	PM	GW	b	9			1	
	4629-MW28-W	↓	↓	↓					1	
	4629-MW30-W								1	
	4629-MW34-W								1	
	4629-MW38-W								1	
	4629-MW43-W								1	
	4629-MW44-W								1	

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER
DISSOLVED METALS = F. F.

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: Former Shell Bulk Plant - PFP
Project No.: 4629.03
Date: 11-23-05
Golbal ID No.: T0602300107
PM: CJW

Tech: RLD
Mob/Demob time: 2.50
Travel time: 1.0
Time on site: 9:00
Time off site:
Mileage: 216

WELL No.:	MW27		MW28		MW30		MW34		MW38	
DIAMETER (in)	2.00		2.00		2.00		1.50		1.50	
SCREENED INTERVAL (ft)	5-10		5-10		5-10		14-18		12-14	
DEPTH TO WATER (ft)	4.38		4.79		4.35		7.40		4.96	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	7.1	6.2	6.6	6.3	6.5	6.4	6.6	6.4	6.6	6.5
TEMP (°C)	13.9	14.7	13.0	13.1	16.4	16.3	12.6	13.0	15.3	15.5
Ecw (µmohs)	736	551	503	493	670	647	518	503	656	644
ORP (mV)	74	91	53	72	44	44	-42	-56	-71	-72
DO (mg/L)	5.40	6.47	4.76	5.24	0.68	0.80	1.08	0.77	0.89	0.93
OTHER (units)	—		—		—		—		—	
PURGE: TIME	10:25	10:33	10:43	10:51	11:37	11:47	11:03	11:09	11:21	11:29
METHOD (DHP/CB/B)	DHP		DHP		CAM		DHP		CAM	
RATE (Lpm)	0.25		0.13		0.15		0.17		0.13	
VOLUME (L)	2.0		1.0		1.5		1.0		1.0	
COLOR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	TAN TINT	LIGHT	CLEAR	CLEAR	CLEAR
ODOR	LIGHT ANISE LIGHT SWEET		LIGHT FUEL		MED - STRONG FUEL		MED FUEL		VERY SLIGHT SULFUR	
INTAKE DEPTH (FEET)	7.5		7.5		7.5		14.5		13.0	
SAMPLE: TIME										
METHOD (DHP/CB/B)										
ANALYTES	INTRINSICS ONLY		INTRINSICS ONLY		INTRINSICS ONLY		INTRINSICS ONLY		INTRINSICS ONLY	
TOTAL DRAWDOWN (FEET)	3.64		0.39		0.85		1.08		0.90	
REMARKS	—		—		—		—		—	
WELL CONDITION	GOOD		GOOD		GOOD		GOOD		GOOD	
WASTE DRUMS	(1) DOT DRUM ONSITE									

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

REVISED:11/4/2005

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

Project Name: Former Shell Bulk Plant - PFP
Project No.: 4629.03
Date: 11-23-05
Golbal ID No.: T0602300107
PM: CJW

Tech: RLD
Mob/Demob time: .25/1.50
Travel time: 1.0
Time on site: 9:00
Time off site: 1:30
Mileage: 36

WELL No.:	MW43		MW44							
DIAMETER (in)	1.50		1.50							
SCREENED INTERVAL (ft)	16-18		12-15							
DEPTH TO WATER (ft)	4.83		4.48							
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	6.6	6.5	6.6	6.7						
FIELD INTRINSICS: TEMP (°C)	14.4	14.7	14.6	14.7						
FIELD INTRINSICS: Ecw (µmohs)	681	655	633	741						
FIELD INTRINSICS: ORP (mV)	-52	-55	-73	-53						
FIELD INTRINSICS: DO (mg/L)	0.46	0.81	0.89	0.60						
FIELD INTRINSICS: OTHER (units)	—		—							
PURGE: TIME	12:13	12:21	12:35	12:42						
PURGE: METHOD (DHP/CB/B)	CAM		CAM							
PURGE: RATE (Lpm)	0.15		0.19							
PURGE: VOLUME (L)	1.0		1.5							
PURGE: COLOR	CLEAR	LIGHT YELLOW TINT	CLEAR	CLEAR						
PURGE: ODOR	LIGHT ANISE LIGHT FUEL		LIGHT SULFUR							
PURGE: INTAKE DEPTH (FEET)	17.0		13.5							
SAMPLE: TIME										
SAMPLE: METHOD (DHP/CB/B)										
SAMPLE: ANALYTES	INTRINSICS ONLY		INTRINSICS ONLY							
SAMPLE: TOTAL DRAWDOWN (FEET)	4.18		4.32							
SAMPLE: REMARKS	—		—							
WELL CONDITION	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: FORMER SHELL DUCK PLANT - PH

Project No.: 4629.03

Tech: [illegible]

Date: 11-23-05

WELL ID:	METER ACCURACY RANGE				
MW27	+/- 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)
10:27	6.4	13.8	590	94	6.56
10:29	6.3	14.6	560	95	6.47
10:31	6.3	14.7	552	89	6.48
10:33	6.2	14.7	551	91	6.47

WELL ID: MW28

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:45	6.4	12.9	495	68	5.58
10:47	6.4	13.0	492	[illegible]	5.45
10:49	6.4	13.2	494	71	5.34
10:51	6.3	13.1	493	72	5.24

WELL ID: MW 30

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:39	[illegible]	15.4	[illegible]	ur	0.99
11:41	[illegible]	15.6	654	ur	1.07
11:43	6.4	16.4	652	ur	0.93
[illegible]	6.4	16.3	649	ur	0.84
11:47	6.4	16.3	647	ur	0.80

WELL ID: MW 34

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:05	6.4	12.9	505	-53	0.61
11:07	6.4	13.0	501	-55	0.69
11:09	6.4	13.0	503	-56	0.77

WELL ID: MW 38

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:23	6.6	15.1	645	-74	1.29
11:25	6.6	15.2	647	-75	1.12
11:27	6.6	15.4	646	-74	[illegible]
11:29	6.5	15.5	644	-72	0.93

WELL ID: MW 43

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	6.5	14.6	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	14.7	[illegible]	-56	[illegible]
[illegible]	[illegible]	14.7	655	-55	0.81

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

Project Name: FORMER SHELL BULK PLANT-PTP
Project No.: 42.29.03
Tech: RLD
Date: 11-23-05

WELL ID:	METER ACCURACY RANGE				
MW44	+/- 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)
12:37	6.6	14.5	420	-79	0.77
12:39	6.6	14.6	593	-82	0.65
12:41	6.6	14.8	542	-85	0.59
12:43	6.7	14.7	541	-83	0.60

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)

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: FORMER SHELL BULK PLANT - PFP

Project No.: 4629.03

Tech: RLD

Date: 11-23-05

WELL ID: MW27		WELL ID: MW28		WELL ID: MW30		WELL ID: MW34		WELL ID: MW38		WELL ID: MW43	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:20	7.38	9:25	4.79	9:30	4.55	9:35	7.40	9:40	4.9[illegible]	9:45	4.85
10:20	4.38	10:40	4.79	11:34	4.35	11:00	7.40	11:19	4.96	12:10	4.83

WELL ID: MW44		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)
[illegible]	4.48										
[illegible]	[illegible]										

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)

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

Project Name: Bulk Plant - HPI (UST)
Project No.: 4629.03
Date: 12-28/29-05
Golbal ID No.: T0602300107
PM: CJW

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.0/1.0
Time on site: 9:20/9:00
Time off site: 2:30/1:00
Mileage: 36/36

WELL No.:	1A		MW15		MW16		MW19		MW20	
DIAMETER (in)	2.00		0.75		0.75		1.10		1.10	
SCREENED INTERVAL (ft)	5-15		4.5-14		3-14.5		22.5-25		15.5-19.5	
DEPTH TO WATER (ft)	0.42		1.84		3.14		—		—	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	7.6	7.0								
TEMP (°C)	14.1	14.3								
Ecw (µmohs)	204	194								
ORP (mV)	-11	5								
DO (mg/L)	1.41	0.44								
OTHER (units)	—									
PURGE: TIME	1:22	1:30	—	—	—	—				
METHOD (DHP/CB/B)	DHP		1/2" B		1/2" B					
RATE (Lpm)	0.19		—		—					
VOLUME (L)	1.50		—		—					
COLOR	LT. BROWN CLOUDY	LT. BROWN CLOUDY	LT. BROWN TINT	LT. BROWN TINT	CLEAR	CLEAR				
ODOR	MED. RUBBER / FUEL		SLIGHT SULFUR		SLIGHT SULFUR					
INTAKE DEPTH (FEET)	10.0		—		—					
SAMPLE: TIME	1:33		11:17		10:59		—		—	
METHOD (DHP/CB/B)	DHP		1/2" B		1/2" 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)	0.20		—		—		—		—	
REMARKS	—		OBSTRUCTION IN WELL AT 4' - COULD NOT REMOVE		REMOVED OLD BAILER FROM WELL		UNACCESSIBLE NO SAMPLE		UNACCESSIBLE NO SAMPLE	
WELL CONDITION	good		good		good		WATER IN RAVINE EVEN WITH TOP OF RISER"		WATER IN RAVINE 3" FROM TOP OF RISER !!	
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 (UST)
Project No.: 4629.03
Date: 12-28/29-05
Golbal ID No.: T0602300107
PM: CJW

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.0/1.0
Time on site: 9:20/9:00
Time off site: 2:30/1:00
Mileage: 36/36

WELL No.:	MW23		MW24		MW25		MW27		MW28	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	5-10		5-10		5-10		5-10		5-10	
DEPTH TO WATER (ft)	0.42		0.49		0.80		0.30		0.58	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH					8.0	6.7				
TEMP (°C)					13.0	14.1				
Ecw (µmohs)					349	303				
ORP (mV)					37	30				
DO (mg/L)					0.97	0.35				
OTHER (units)					—					
PURGE: TIME					12:15	12:31				
METHOD (DHP/CB/B)					DHP					
RATE (Lpm)					0.18					
VOLUME (L)					3.0					
COLOR					CLEAR	YELLOW TINT				
ODOR					MED. SULFUR	/ LIGHT FUEL				
INTAKE DEPTH (FEET)					7.5					
SAMPLE: TIME					12:34					
METHOD (DHP/CB/B)					DHP					
ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate	
TOTAL DRAWDOWN (FEET)					0.52					
REMARKS					—					
WELL CONDITION	good		good		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~~ WSE (UST)
Project No.: 4629.03
Date: 12-28/29-05
Golbal ID No.: T0602300107
PM: CJW

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.0/1.0
Time on site: 9:20/9:00
Time off site: 2:30/1:00
Mileage: 36/36

WELL No.:	MW29		MW30		MW33		MW34		MW35	
DIAMETER (in)	2.00		2.00		1.50		1.50		1.50	
SCREENED INTERVAL (ft)	5-10		5-10		14-17.5		14-18		17-20	
DEPTH TO WATER (ft)	0.44		0.43		0.61		0.90		1.22	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	8.4	7.7	6.9	6.6	6.7	6.5				
TEMP (°C)	10.4	12.6	11.3	13.0	13.6	15.2				
Ecw (µmohs)	287	265	277	280	247	242				
ORP (mV)	48	92	27	28	21	38				
DO (mg/L)	32.98	33.32	0.90	0.37	0.83	0.46				
OTHER (units)	—		—		—					
PURGE: TIME	9:47	9:59	12:23	12:31	1:54	2:04				
METHOD (DHP/CB/B)	DHP		CAM PUMP		DHP					
RATE (Lpm)	0.18		0.22		0.16					
VOLUME (L)	2.20		1.75		1.60					
COLOR	LT. BROWN TURBID	LT. BROWN CLOUDY	YELLOW TINT	ORANGE CLOUDY	MED. GREY TURBID	LT. GREY CLOUDY				
ODOR	LIGHT FUEL		STRONG RUBBER/FUEL		LIGHT SULFUR					
INTAKE DEPTH (FEET)	7.5		9.0		15.5					
SAMPLE: TIME	10:02		12:34		2:06					
METHOD (DHP/CB/B)	DHP		CAM PUMP		DHP					
ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate		TPHg/BTEX; TPHd w/SGC	
TOTAL DRAWDOWN (FEET)	0.21		3.37		1.23					
REMARKS	—		DISS. METALS = FF		—					
WELL CONDITION	good		good		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~~ WSE (UST)
Project No.: 4629.03
Date: 12-28/29-05
Golbal ID No.: T0602300107
PM: CJW

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.0/1.0
Time on site: 9:20/9:00
Time off site: 2:30/1:00
Mileage: 36/36

WELL No.:	MW36		MW37 X		MW38 X		MW39 X		MW40 X	
DIAMETER (in)	1.50		1.50		1.50		1.50		1.50	
SCREENED INTERVAL (ft)	13-14.5		17.25-19		12-14		17.75-19		13.25-16	
DEPTH TO WATER (ft)			0.86		0.93		0.84		1.01	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING — FIELD INTRINSICS: pH			7.0	6.5	7.1	6.8	6.9	6.6	7.0	6.6
TEMP (°C)			9.7	13.4	9.5	12.8	11.4	14.6	10.8	13.8
Ecw (µmohs)			292	280	275	265	268	273	269	264
ORP (mV)			116	113	100	93	40	36	79	64
DO (mg/L)			1.44	0.52	1.03	0.51	0.84	0.26	0.62	0.23
OTHER (units)			—		—		—		—	
PURGE: TIME			10:17	10:25	10:51	10:59	12:02	12:08	11:27	11:35
METHOD (DHP/CB/B)			DHP		DHP		CAM PUMP		CAM PUMP	
RATE (Lpm)			0.16		0.16		0.20		0.22	
VOLUME (L)			1.25		1.25		1.20		1.75	
COLOR			CLEAR	YELLOW BROWN TINT	CLEAR	YELLOW BROWN TINT	CLEAR	CLEAR	CLEAR	CLEAR
ODOR			LIGHT ORGANIC		LIGHT SULFUR		LIGHT ORGANIC		LIGHT SULFUR/GARLIC	
INTAKE DEPTH (FEET)			18.0		13.0		18.5		15.0	
SAMPLE: TIME			10:28		11:03		12:10		11:38	
METHOD (DHP/CB/B)			DHP		DHP		CAM PUMP		CAM PUMP	
ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC	
TOTAL DRAWDOWN (FEET)			3.99		1.57		5.32		5.19	
REMARKS			—		DISS. METALS = FF		1' NEW C-FLEX 3' NEW DHT 2 NEW BARBED FITTINGS		1' NEW C-FLEX 3' NEW DHT - 2 BARB FITTINGS	
WELL CONDITION			good		good		good		good	
WASTE DRUMS										

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 - WSE (UST)
Project No.: 4629.03

Tech: SJD
Date: 12-29-05

WELL ID:	METER ACCURACY RANGE				
mw29	+/- 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)
9:49	8.2	11.2	277	63	32.31
9:51	8.0	12.0	271	75	32.72
9:53	7.8	12.4	268	82	33.40
9:55	7.8	12.6	267	87	33.59
9:57	7.7	12.6	267	91	33.41
9:59	7.7	12.6	265	92	33.32

WELL ID: mw37

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:19	6.7	12.7	284	115	1.15
10:21	6.6	13.3	281	115	0.71
10:23	6.5	13.4	281	114	0.58
10:25	6.5	13.4	280	113	0.52

WELL ID: mw38

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:53	7.0	12.0	269	98	0.91
10:55	6.9	12.5	267	97	0.68
10:57	6.8	12.7	267	94	0.59
10:59	6.8	12.8	265	93	0.51

WELL ID: mw40

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:29	6.9	13.0	268	74	0.54
11:31	6.7	13.7	258	69	0.38
11:33	6.7	13.6	264	65	0.31
11:35	6.6	13.8	264	64	0.23

WELL ID: mw39

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:04	6.7	13.8	272	37	0.31
12:06	6.7	14.5	271	37	0.32
12:08	6.6	14.6	273	36	0.26

WELL ID: mw30

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:25	6.7	12.2	278	28	0.84
12:27	6.7	12.7	278	28	0.36
12:29	6.6	12.9	279	28	0.36
12:31	6.6	13.0	280	28	0.37

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

Project Name: Bulk Plant - HPI (UST)
Project No.: 4629.03
Date: 12-28/29-05
Golbal ID No.: T0602300107
PM: CJW

Tech: SJD/RLD
Mob/Demob time: :50/:50
Travel time: 1.0/1.0
Time on site: 9:20/9:15
Time off site: 2:30/2:00
Mileage: 36/36

WELL No.:	1A		MW15		MW16		MW19		MW20	
DIAMETER (in)	2.00		0.75		0.75		1.10		1.10	
SCREENED INTERVAL (ft)	5-15		4.5-14		3-14.5		22.5-25		15.5-19.5	
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		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC	
TOTAL DRAWDOWN (FEET)										
REMARKS										
WELL CONDITION										
WASTE DRUMS	1-DOT DRUM ONSITE									

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 (UST)
Project No.: 4629.03
Date: 12-28-05 / 12-29-05
Golbal ID No.: T0602300107
PM: CJW

Tech: SJD / RLD
Mob/Demob time: .50/.50 / .50/.50
Travel time: 1.0 / 1.0
Time on site: 9:20 / 9:15
Time off site: 2:30 / 2:00
Mileage: 36 / 36

WELL No.:	MW23		MW24		MW25		MW27		MW28	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	5-10		5-10		5-10		5-10		5-10	
DEPTH TO WATER (ft)	0.42		0.49				0.30		0.58	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	7.3	7.2	7.4	7.2			7.3	7.1	7.5	7.2
TEMP (°C)	13.1	12.4	13.7	13.3			12.8	13.6	11.7	11.8
Ecw (µmohs)	227	217	331	321			538	522	375	367
ORP (mV)	6	63	-56	15			-31	26	ur	-57
DO (mg/L)	2.62	2.79	5.03	5.62			1.31	3.23	0.72	0.90
OTHER (units)	—		—				—		—	
PURGE: TIME	11:03	11:11	1:01	1:13			10:15	10:21	12:45	12:53
METHOD (DHP/CB/B)	CAM		CAM				CAM		CAM	
RATE (Lpm)	0.25		0.25				0.25		0.19	
VOLUME (L)	2.0		3.0				1.5		1.5	
COLOR	CLEAR	TAN TINT	CLEAR	TAN TINT			CLEAR	CLEAR	CLEAR	YELLOW TINT
ODOR	NONE		SLIGHT SWEET				LIGHT ANISE LIGHT FUEL LIGHT GASOLINE		MED FUEL	
INTAKE DEPTH (FEET)	7.0		8.0				7.5		7.5	
SAMPLE: TIME	11:13		1:15				10:23		12:55	
METHOD (DHP/CB/B)	CAM		CAM				CAM		CAM	
ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate	
TOTAL DRAWDOWN (FEET)	1.03		0.11				0.65		2.51	
REMARKS	12-28-05		12-28-05				12-29-05		12-29-05	
WELL CONDITION	GOOD		GOOD				GOOD		GOOD	
WASTE DRUMS	1 - DOT DRUM ONSITE									

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 (UST)
Project No.: 4629.03
Date: 12-28/29-05
Golbal ID No.: T0602300107
PM: CJW

Tech: SJD/RLD
Mob/Demob time: .50/.50
Travel time: 1.0/1.0
Time on site: 9:20/9:15
Time off site: 2:30/2:00
Mileage: 36/36

WELL No.:	MW29		MW30		MW33		MW34		MW35	
DIAMETER (in)	2.00		2.00		1.50		1.50		1.50	
SCREENED INTERVAL (ft)	5-10		5-10		14-17.5		14-18		17-20	
DEPTH TO WATER (ft)							0.80		1.22	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH							7.2	7.2	7.2	7.1
TEMP (°C)							13.9	14.2	14.1	14.5
Ecw (µmohs)							462	454	471	446
ORP (mV)							-49	-55	-32	-21
DO (mg/L)							0.41	3.57	0.78	1.85
OTHER (units)							—		—	
PURGE: TIME							12:31	12:39	1:27	1:37
METHOD (DHP/CB/B)							CAM		CAM	
RATE (Lpm)							0.31		0.25	
VOLUME (L)							2.5		2.5	
COLOR							CLOUDY CLEAR	GREY TURBID	TAN	TAN
ODOR							MED FUEL		LIGHT SULFUR	
INTAKE DEPTH (FEET)							16.0		18.5	
SAMPLE: TIME							12:41		1:39	
METHOD (DHP/CB/B)							CAM		CAM	
ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate		TPHg/BTEX; TPHd w/SGC	
TOTAL DRAWDOWN (FEET)							0.20		0.04	
REMARKS							12-28-05		12-28-05	
WELL CONDITION							GOOD		GOOD	
WASTE DRUMS	1 - DOT DRUM ONSITE									

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 (UST)
Project No.: 4629.03
Date: 12-28/29-05
Golbal ID No.: T0602300107
PM: CJW

Tech: SJD / RLD
Mob/Demob time: .50/.50
Travel time: 1.0/1.0
Time on site: 9:20/9:15
Time off site: 2:30/2:00
Mileage: 36/36

WELL No.:	MW36		MW37		MW38		MW39		MW40	
DIAMETER (in)	1.50		1.50		1.50		1.50		1.50	
SCREENED INTERVAL (ft)	13-14.5		17.25-19		12-14		17.75-19		13.25-16	
DEPTH TO WATER (ft)	1.07									
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	7.2	7.1								
TEMP (°C)	14.0	14.5								
Ecw (µmohs)	245	313								
ORP (mV)	-77	-59								
DO (mg/L)	4.32	1.33								
OTHER (units)	—									
PURGE: TIME	1:55	2:03								
METHOD (DHP/CB/B)	CAM									
RATE (Lpm)	0.25									
VOLUME (L)	2.0									
COLOR	CLEAR	CLEAR								
ODOR	MED-STRONG SULFUR									
INTAKE DEPTH (FEET)	13.6									
SAMPLE: TIME	2:05									
METHOD (DHP/CB/B)	CAM									
ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC	
TOTAL DRAWDOWN (FEET)	0.44									
REMARKS	12-28-05									
WELL CONDITION	GOOD									
WASTE DRUMS	1 DOT DRUM ONSITE									

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 (UST)
Project No.: 4629.03
Date: 12-29-05
Golbal ID No.: T0602300107
PM: CJW

Tech: SJD / RLD
Mob/Demob time: .50/.50
Travel time: 1.0/1.0
Time on site: 9:20 / 9:15
Time off site: 2:30 / 2:00
Mileage: 36/36

WELL No.:	MW41		MW42		MW43		MW44			
DIAMETER (in)	1.50		1.50		1.50		1.50			
SCREENED INTERVAL (ft)	16.5-18		12-14.5		16-18		12-15			
DEPTH TO WATER (ft)	1.59		0.85		1.94		0.84			
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	7.5	7.4	7.2	7.1	7.4	7.4	7.5	7.5		
TEMP (°C)	13.4	13.9	13.7	14.5	12.1	13.1	12.5	12.8		
Ecw (µmohs)	571	545	524	523	500	496	480	447		
ORP (mV)	-60	-90	-71	-41	-70	-95	-62	-88		
DO (mg/L)	1.60	1.61	0.93	1.48	1.92	1.37	0.93	0.75		
OTHER (units)	—		—		—		—			
PURGE: TIME	10:57	11:05	11:23	11:33	12:03	12:15	1:07	1:15		
METHOD (DHP/CB/B)	CAM		CAM		CAM		CAM			
RATE (Lpm)	0.25		0.20		0.21		0.25			
VOLUME (L)	2.0		2.0		2.5		1.5			
COLOR	CLEAR	YELLOW TINT	CLEAR	CLEAR	CLEAR	YELLOW TINT	CLEAR	CLEAR		
ODOR	LIGHT FUEL LIGHT SULFUR		SLIGHT SULFUR		LIGHT SULFUR LIGHT FUEL		LIGHT FUEL LIGHT ANISE			
INTAKE DEPTH (FEET)	17.0		13.5		17.0		13.5			
SAMPLE: TIME	11:07		11:35		12:17		1:17			
METHOD (DHP/CB/B)	CAM		CAM		CAM		CAM			
ANALYTES	TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate		TPHg/BTEX; TPHd w/SGC; Diss. Cr6, Se, Va, Mo; Bromate			
TOTAL DRAWDOWN (FEET)	5.00		3.43		6.51		5.26			
REMARKS	12-29-05		12-29-05		12-29-05		12-29-05 FD + MB			
WELL CONDITION	GOOD		GOOD		GOOD		GOOD			
WASTE DRUMS	1 - DOT DRUM ONSITE									

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
Project No.: 4629.03
Tech: RLD
Date: 12-28-05

WELL ID:	METER ACCURACY RANGE				
MW23	+/- 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)
11:05	7.2	13.0	218	53	2.62
11:07	7.2	12.3	218	55	2.88
11:09	7.2	12.4	217	61	2.84
11:11	7.2	12.4	217	63	2.79

WELL ID: MW34

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:33	7.3	13.9	458	-56	0.99
12:35	7.2	14.0	457	-56	2.77
12:37	7.2	14.2	454	-55	3.63
12:39	7.2	14.2	454	-55	3.57

WELL ID: MW24

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
1:03	7.3	13.5	334	-32	5.20
1:05	7.2	13.4	334	-12	5.31
1:07	7.2	13.3	328	1	5.38
1:09	7.2	13.3	326	9	5.49
1:11	7.2	13.3	323	13	5.60
1:13	7.2	13.3	321	15	5.62

WELL ID: MW35

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
1:29	7.1	14.0	475	-32	1.16
1:31	7.1	14.2	464	-28	3.09
1:33	7.1	14.3	455	-24	2.01
1:35	7.1	14.5	445	-21	1.72
1:37	7.1	14.5	446	-21	1.85

WELL ID: MW36

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
1:57	7.1	13.9	355	-80	2.04
1:59	7.1	14.1	325	-77	1.72
2:01	7.1	14.2	315	-61	1.48
2:03	7.1	14.5	313	-59	1.33

WELL ID:

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

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

Project Name: BULK PLANT - WSE
Project No.: 4629.03
Tech: RLD
Date: 12-29-05

WELL ID:	METER ACCURACY RANGE				
MW27	+/- 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)
10:17	7.1	13.4	530	-1	1.74
10:19	7.1	13.8	523	15	2.82
10:21	7.1	13.7	522	24	3.91
10:23	7.1	13.6	522	26	3.73

WELL ID: MW41

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:59	7.4	13.3	567	-73	1.99
11:01	7.4	13.8	557	-84	1.87
11:03	7.4	13.9	553	-89	1.54
11:05	7.4	13.9	545	-90	1.61

WELL ID: MW42

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:25	7.2	14.3	520	-56	3.96
11:27	7.1	14.4	519	-51	3.18
11:29	7.1	14.4	520	-49	2.24
11:31	7.1	14.5	523	-41	1.56
11:33	7.1	14.5	523	-41	1.48

WELL ID: MW28

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:47	7.3	11.6	371	-88	1.11
12:49	7.3	11.8	369	-79	0.89
12:51	7.2	11.8	367	-59	0.91
12:53	7.2	11.8	367	-57	0.90

WELL ID: MW43

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:05	7.4	12.3	505	-70	1.88
12:07	7.4	12.1	497	-81	1.36
12:09	7.4	12.8	498	-78	1.29
12:11	7.4	12.9	493	-82	1.37
12:13	7.4	13.1	496	-89	1.37
12:15	7.4	13.1	496	-90	1.37

WELL ID: MW44

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
1:09	7.5	12.7	470	-79	0.73
1:11	7.5	12.8	452	-85	0.72
1:13	7.5	12.8	449	-87	0.72
1:15	7.5	12.8	447	-88	0.75

LACO ASSOCIATES
CONSULTING ENGINEERS

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

Project Name: BULK PLANT - WSE (UST)
Project No.: 4629.03
Tech: SJD/RLB
Date: 12-28/29-05

WELL ID: MW1A		WELL ID: MW15		WELL ID: MW16		WELL ID: MW19		WELL ID: MW20		WELL ID: MW22	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:42	0.49	10:11	1.84	10:15	3.14	—	—	—	—	10:20	0.42
9:52	0.42	10:21	1.84	10:25	3.14					10:45	0.42
10:00	0.42	—	—	—	—					—	—
—	—	12-28-05		12-28-05						12-28-05	
12-28-05											

WELL ID: MW24		WELL ID: MW25		WELL ID: MW27		WELL ID: MW28		WELL ID: MW29		WELL ID: MW30	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
10:25	0.49	9:45	0.80	9:30	0.30	9:36	0.58	9:16	0.52	9:26	0.43
10:50	0.49	9:54	0.80	9:50	0.30	9:56	0.58	9:30	0.44	9:39	0.43
—	—	—	—	—	—	—	—	9:41	0.44	—	—
12-28-05		12-28-05		12-29-05		12-29-05		—		12-29-05	
								12-29-05			

WELL ID: MW33		WELL ID: MW34		WELL ID: MW35		WELL ID: MW36		WELL ID: MW37		WELL ID: MW38	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:47	0.61	10:30	0.80	10:35	1.22	10:40	1.07	9:18	0.86	9:20	0.93
9:56	0.61	10:55	0.80	10:56	1.22	10:57	1.07	9:32	0.86	9:34	0.93
—	—	—	—	—	—	—	—	—	—	—	—
12-28-05		12-28-05		12-28-05		12-28-05		12-29-05		12-29-05	

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

Project Name: BULK PLANT - WSF (UST)
Project No.: 4629.03
Tech: SJD/RLD
Date: 12-28/29-05

WELL ID: MW39		WELL ID: MW40		WELL ID: MW41		WELL ID: MW42		WELL ID: MW43		WELL ID: MW44	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:23	0.84	9:24	1.01	9:32	1.59	9:34	0.85	9:38	1.94	9:40	0.84
9:36	0.84	9:38	1.01	9:52	1.59	9:54	0.85	9:58	1.94	10:00	0.84
—	—	—	—	—	—	—	—	—	—	—	—
12-29-05		12-29-05		12-29-05		12-29-05		12-29-05		12-29-05	

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 West Fourth Street

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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHg/BTEX (ANALYSIS)	TPHd w/SGC (ANALYSIS)	Dissolved Cr6, Se, Va, Mo (ANALYSIS)	Bromate (ANALYSIS)	PRESERVATIVE	CONTAINER
									b	9
									------	7
									------	2
									------	2
	4629-MW1A-W	12-28-05	AM	GW	3	1				
	4629-MW15-W	↓	↓	↓	3	1				
	4629-MW16-W				3	1				
	~~4629-MW19-W~~				~~[illegible]~~	~~[illegible]~~				
	~~4629-MW20-W~~				~~[illegible]~~	~~[illegible]~~				
	4629-MW23-W				3	1				
	4629-MW24-W				3	1				
	4629-MW25-W	↓	PM		3	1				
	4629-MW27-W	12-29-05	AM		3	1	1	1		
	4629-MW28-W	↓	↓	↓	3	1	1	1		

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER
LIMITED QUANTITY FOR 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.
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 West Fourth Street, 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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: TPHg/BTEX	TPHd w/SGC	Dissolved Cr6, Se, Va, Mo	Bromate										
					CONTAINER: 9	7	2	2										
					PRESERVATIVE: b	---	---	---										
	4629-MW29-W	12-29-05	AM	GW	3	1												
	4629-MW30-W	↓	PM		3	1	1	1										
	4629-MW33-W	12-28-05	AM		3	1												
	4629-MW34-W				3	1	1	1										
	4629-MW35-W				3	1												
	4629-MW36-W	↓	PM		3	1												
	4629-MW37-W	12-29-05	AM		3	1												
	4629-MW38-W				3	1	1	1										
	4629-MW39-W				3	1												
	4629-MW40-W	↓	PM	↓	3	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

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 West Fourth Street, 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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHg/BTEX (ANALYSIS)	TPHd w/SGC (ANALYSIS)	Dissolved Cr6, Se, Va, Mo (ANALYSIS)	Bromate (ANALYSIS)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
					PRESERVATIVE: b	----	----	----	
					CONTAINER: 9	7	2	2	
	4629-MW41-W	12-29-05	Am	GW	3	1			GEOTRACKER
	4629-MW42-W	↓	↓	↓	3	1			
	4629-MW43-W				3	1	1	1	
	4629-MW44-W				3	1	1	1	
	4629-QCTB-W				1				
	4629-QCMB-W				3				
	4629-QCFD-W	↓	Pm	↓	3				

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: Former Shell Bulk Plant - PFP
Project No.: 4629.03
Date: 1-25-06
Golbal ID No.: T0602300107
PM: CJW

Tech: RLD
Mob/Demob time: 50/50
Travel time: 1.0
Time on site: 9:00
Time off site: 12:30
Mileage: 36

WELL No.:	MW27		MW28		MW30		MW34		MW38	
DIAMETER (in)	2.00		2.00		2.00		1.50		1.50	
SCREENED INTERVAL (ft)	5-10		5-10		5-10		14-18		12-14	
DEPTH TO WATER (ft)	2.56		2.22		1.64		4.85		2.59	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	7.2	6.3	6.6	6.5	6.6	6.3	6.5	6.4	6.5	6.4
TEMP (°C)	11.7	12.2	12.0	12.2	11.4	10.7	12.9	13.0	11.9	11.6
Ecw (µmohs)	600	590	430	420	870	870	570	560	960	920
ORP (mV)	-81	6	-91	ur	-73	-28	-78	-70	-80	-73
DO (mg/L)	0.87	0.81	0.47	0.78	1.18	0.63	1.08	0.54	1.06	0.54
OTHER (units)	—		—		—		—		—	
PURGE: TIME	9:45	9:53	10:07	10:13	11:57	12:03	11:17	11:23	11:37	11:45
METHOD (DHP/CB/B)	CAM		CAM		CAM		CAM		CAM	
RATE (Lpm)	0.25		0.25		0.25		0.25		0.25	
VOLUME (L)	2.0		1.5		1.5		1.5		2.0	
COLOR	CLEAR	CLEAR	CLEAR	LIGHT GREY	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLOUDY CLEAR
ODOR	LIGHT ANISE WEED		MED-STRONG SULFUR		MED ANISE STRONG FUEL		LIGHT - MED SULFUR		LIGHT SULFUR	
INTAKE DEPTH (FEET)	7.5		7.5		7.5		16.0		13.0	
SAMPLE: TIME										
METHOD (DHP/CB/B)										
ANALYTES	INTRINSICS ONLY		INTRINSICS ONLY		INTRINSICS ONLY		INTRINSICS ONLY		INTRINSICS ONLY	
TOTAL DRAWDOWN (FEET)	0.59		1.11		0.71		0.30		0.21	
REMARKS	—		—		—		—		—	
WELL CONDITION	GOOD		GOOD		GOOD		GOOD		GOOD	
WASTE DRUMS	1 DOT DRUM ONSITE									

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: Former Shell Bulk Plant - PFP
Project No.: 4629.03
Date: 1-25-06
Golbal ID No.: T0602300107
PM: CJW

Tech: RLD
Mob/Demob time: .50/.50
Travel time: 1.0
Time on site: 9:00
Time off site: 12:30
Mileage: 36

WELL No.:	MW43		MW44								
DIAMETER (in)	1.50		1.50								
SCREENED INTERVAL (ft)	16-18		12-15								
DEPTH TO WATER (ft)	2.68		2.79								
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	6.6	6.6	6.9	6.6						
TEMP (°C)	12.9	13.0	12.8	12.5						
Ecw (µmohs)	1380	1350	940	900						
ORP (mV)	-70	-80	ur	-91						
DO (mg/L)	0.49	0.60	1.65	0.62						
OTHER (units)	—		—							
PURGE: TIME	10:33	10:41	10:55	11:01						
METHOD (DHP/CB/B)	CAM		CAM							
RATE (Lpm)	0.25		0.25							
VOLUME (L)	2.0		1.5							
COLOR	CLEAR	CLEAR	CLEAR	YELLOW TINT						
ODOR	LIGHT ANISE WEED LIGHT FUEL		LIGHT SULFUR LIGHT FUEL							
INTAKE DEPTH (FEET)	17.0		13.5							
SAMPLE: TIME										
METHOD (DHP/CB/B)										
ANALYTES	INTRINSICS ONLY		INTRINSICS ONLY							
TOTAL DRAWDOWN (FEET)	4.06		3.22							
REMARKS	—		—							
WELL CONDITION	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: FORMER SHELL BULK PLANT - PFP

Project No.: 4629.02

Tech: RLD

Date: 1-25-06

WELL ID: MW27	METER ACCURACY RANGE				
	+/- 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)
9:47	6.4	11.9	590	-18	0.94
9:49	6.4	12.2	590	-3	1.25
9:51	6.3	12.2	590	5	0.88
9:53	6.3	12.2	590	6	0.81

WELL ID: MW28					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:09	6.5	12.1	420	wr	0.66
10:11	6.5	12.2	420	wr	0.79
10:13	6.5	12.2	420	wr	0.78

WELL ID: MW38					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:39	6.6	11.7	960	-82	0.54
11:41	6.5	11.7	950	-78	0.54
11:43	6.4	11.6	930	-74	0.54
11:45	6.4	11.6	920	-73	0.54

WELL ID: MW34					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:19	6.4	12.8	570	-75	0.97
11:21	6.4	12.9	560	-70	0.55
11:23	6.4	13.0	560	-70	0.54

WELL ID: MW30					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:59	6.4	10.9	870	-41	0.73
12:01	6.3	10.7	870	-30	0.61
12:03	6.3	10.7	870	-28	0.63

WELL ID: MW43					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:35	6.6	12.8	1350	-74	1.11
10:37	6.6	12.8	1360	-76	1.02
10:39	6.6	12.9	1350	-78	0.69
10:41	6.6	13.0	1350	-80	0.60

LACO ASSOCIATES
CONSULTING ENGINEERS

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

Project Name: Kaiser Steel Pulp Plant-PPP

Project No.: 1429.03

Tech: RLD

Date: 1-25-06

WELL ID:	METER ACCURACY RANGE				
MW44	+/- 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)
10:57	6.7	12.8	920	-96	1.04
10:59	6.6	12.6	900	-93	0.66
11:01	6.6	12.5	900	-91	0.62

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)

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: FORMER SHELL BULK PLANT - PEP
Project No.: 4629.03
Tech: RLD
Date: 1-25-06

WELL ID: MW27		WELL ID: MW28		WELL ID: MW30		WELL ID: MW34		WELL ID: MW38		WELL ID: MW43	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:10	2.56	9:15	2.22	9:20	1.64	9:25	4.85	9:30	2.59	9:35	2.68
9:25	2.56	10:03	2.22	11:56	1.64	11:15	4.85	11:30	2.59	10:30	2.68

WELL ID: MW44		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)
9:40	2.79										
10:52	2.79										

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)

Attachment 3

RECEIVED
LACO ASSOCIATES
NOV 03 2005
BY: JG

NORTH COAST LABORATORIES LTD.

November 02, 2005

DRG
CJW

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

Order No.: 0510553
Invoice No.: 53977
PO No.: TASK 3031
ELAP No. 1247-Expires July 2006

Attn: Accounts Payable

RE: 4629.03, HPI-Bulk Plant-UST

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4629-MW27-W (Dissolved)
01B	4629-MW27-W (Dissolved)
02A	4629-MW28-W (Dissolved)
02B	4629-MW28-W (Dissolved)
03A	4629-MW30-W (Dissolved)
03B	4629-MW30-W (Dissolved)
04A	4629-MW34-W (Dissolved)
04B	4629-MW34-W (Dissolved)
05A	4629-MW38-W (Dissolved)
05B	4629-MW38-W (Dissolved)
06A	4629-MW43-W (Dissolved)
06B	4629-MW43-W (Dissolved)
07A	4629-MW44-W (Dissolved)
07B	4629-MW44-W (Dissolved)

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:** *03-Nov-05*

CLIENT: LACO Associates
Project: 4629.03, HPI-Bulk Plant-UST
Lab Order: 0510553

CASE NARRATIVE

Selenium:
The laboratory control sample (LCS) recovery was 1% above the upper acceptance limit. This recovery indicates that the sample results may be erroneously high. There were no detectable levels of analyte in the samples; therefore, the data were accepted.

Date: 02-Nov-05
WorkOrder: 0510553

ANALYTICAL REPORT

Client Sample ID: 4629-MW27-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-01A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW27-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-01B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	ND	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Client Sample ID: 4629-MW28-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-02A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW28-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-02B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	ND	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Date: 02-Nov-05
WorkOrder: 0510553

ANALYTICAL REPORT

Client Sample ID: 4629-MW30-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-03A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW30-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-03B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	ND	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Client Sample ID: 4629-MW34-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-04A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW34-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-04B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	ND	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Date: 02-Nov-05
WorkOrder: 0510553

ANALYTICAL REPORT

Client Sample ID: 4629-MW38-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-05A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW38-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-05B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	ND	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Client Sample ID: 4629-MW43-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-06A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW43-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-06B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	10	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Date: 02-Nov-05
WorkOrder: 0510553

ANALYTICAL REPORT

Client Sample ID: 4629-MW44-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-07A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW44-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-07B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	12	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

North Coast Laboratories, Ltd.

Date: 02-Nov-05

CLIENT: LACO Associates
Work Order: 0510553
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Method Blank

Sample ID **MBLK** Batch ID: **R37635** Test Code: **CHR6CW** Units: **µg/L** Analysis Date **10/25/05** Prep Date
Client ID: Run ID: **WC_051025G** SeqNo: **542336**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.256	10									J

Sample ID **MB-14518P** Batch ID: **14518** Test Code: **ICPX** Units: **µg/L** Analysis Date **10/26/05 6:06:00 PM** Prep Date **10/26/05**
Client ID: Run ID: **INICP1_051026D** SeqNo: **542677**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	ND	20									
Vanadium	ND	10									

Sample ID **MB-14518A** Batch ID: **14518** Test Code: **SE200.9X** Units: **µg/L** Analysis Date **10/31/05 2:30:00 PM** Prep Date **10/26/05**
Client ID: Run ID: **INAA2_051031A** SeqNo: **544099**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	10									

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

North Coast Laboratories, Ltd.

Date: 02-Nov-05

CLIENT: LACO Associates
Work Order: 0510553
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS** Batch ID: **R37635** Test Code: **CHR6CW** Units: **µg/L** Analysis Date **10/25/05** Prep Date
Client ID: Run ID: **WC_051025G** SeqNo: **542337**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	85.88	10	80.0	1.26	106%	83	120	0			

Sample ID **LCSD** Batch ID: **R37635** Test Code: **CHR6CW** Units: **µg/L** Analysis Date **10/25/05** Prep Date
Client ID: Run ID: **WC_051025G** SeqNo: **542338**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	75.45	10	80.0	1.26	92.7%	83	120	85.9	12.9%	14	

Sample ID **LCS-14518P** Batch ID: **14518** Test Code: **ICPX** Units: **µg/L** Analysis Date **10/26/05 6:10:00 PM** Prep Date **10/26/05**
Client ID: Run ID: **INICP1_051026D** SeqNo: **542678**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	476.4	20	500	0	95.3%	85	115	0			
Vanadium	479.6	10	500	0	95.9%	85	115	0			

Sample ID **LCS-14518A** Batch ID: **14518** Test Code: **SE200.9X** Units: **µg/L** Analysis Date **10/31/05 4:32:00 PM** Prep Date **10/26/05**
Client ID: Run ID: **INAA2_051031A** SeqNo: **544113**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	23.19	10	20.0	0	116%	85	115	0			S

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

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

Chain of Custody

LABORATORY NUMBER: 0510553

Attention: Accounts Payable
Results & Invoice to: LACO ASSOCIATES
Address: 21 West Fourth Street
Phone: (707) 443-5054
Copies of Report to: LACO; Chris Watt
Sampler (Sign & Print): RLD

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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHg/BTEX (CONTAINER 9, PRESERVATIVE b)	TPHd w/SGC (CONTAINER 7)	Dissolved Cr6, Se, Va, Mo (CONTAINER 2)	Bromate (CONTAINER 2)
	4629-MW27-W	10-24-05	PM	GW			1	
	4629-MW28-W	↓	↓	↓			1	
	4629-MW30-W						1	
	4629-MW34-W						1	
	4629-MW38-W						1	
	4629-MW43-W						1	
	4629-MW44-W						1	

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER
DISSOLVED METALS = F.F.
cold, intact

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	10-25-05 1010	[signature]	10/25/05 1010

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
NOV 07 2005
BY: JL

November 02, 2005

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

Attn: Accounts Payable

RE: 4629.03, HPI-Bulk Plant-UST

Order No.: 0510553
Invoice No.: 53977
PO No.: TASK 3031
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4629-MW27-W (Dissolved)
01B	4629-MW27-W (Dissolved)
02A	4629-MW28-W (Dissolved)
02B	4629-MW28-W (Dissolved)
03A	4629-MW30-W (Dissolved)
03B	4629-MW30-W (Dissolved)
04A	4629-MW34-W (Dissolved)
04B	4629-MW34-W (Dissolved)
05A	4629-MW38-W (Dissolved)
05B	4629-MW38-W (Dissolved)
06A	4629-MW43-W (Dissolved)
06B	4629-MW43-W (Dissolved)
07A	4629-MW44-W (Dissolved)
07B	4629-MW44-W (Dissolved)

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

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

LMO
DRG
DNL
GH
GEO
HPI
CJW

File
Project #

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:** *03-Nov-05*

CLIENT: LACO Associates
Project: 4629.03, HPI-Bulk Plant-UST
Lab Order: 0510553

CASE NARRATIVE

Selenium:
The laboratory control sample (LCS) recovery was 1% above the upper acceptance limit. This recovery indicates that the sample results may be erroneously high. There were no detectable levels of analyte in the samples; therefore, the data were accepted.

Date: 02-Nov-05
WorkOrder: 0510553

ANALYTICAL REPORT

Client Sample ID: 4629-MW27-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-01A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW27-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-01B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	ND	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Client Sample ID: 4629-MW28-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-02A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW28-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-02B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	ND	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Date: 02-Nov-05
WorkOrder: 0510553

ANALYTICAL REPORT

Client Sample ID: 4629-MW30-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-03A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW30-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-03B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	ND	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Client Sample ID: 4629-MW34-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-04A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW34-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-04B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	ND	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Date: 02-Nov-05
WorkOrder: 0510553

ANALYTICAL REPORT

Client Sample ID: 4629-MW38-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-05A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW38-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-05B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	ND	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Client Sample ID: 4629-MW43-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-06A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW43-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-06B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	10	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

Date: 02-Nov-05
WorkOrder: 0510553

ANALYTICAL REPORT

Client Sample ID: 4629-MW44-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-07A **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		10/25/05

Client Sample ID: 4629-MW44-W (Dissolved) **Received:** 10/25/05 **Collected:** 10/24/05 0:00
Lab ID: 0510553-07B **Matrix:** Groundwater

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	10/26/05	10/26/05
Vanadium	12	10	µg/L	1.0	10/26/05	10/26/05

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	10/26/05	10/31/05

North Coast Laboratories, Ltd.

Date: 02-Nov-05

CLIENT: LACO Associates
Work Order: 0510553
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Method Blank

Sample ID **MBLK** Batch ID: **R37635** Test Code: **CHR6CW** Units: **µg/L** Analysis Date **10/25/05** Prep Date
Client ID: Run ID: **WC_051025G** SeqNo: **542336**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.256	10									J

Sample ID **MB-14518P** Batch ID: **14518** Test Code: **ICPX** Units: **µg/L** Analysis Date **10/26/05 6:06:00 PM** Prep Date **10/26/05**
Client ID: Run ID: **INICP1_051026D** SeqNo: **542677**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	ND	20									
Vanadium	ND	10									

Sample ID **MB-14518A** Batch ID: **14518** Test Code: **SE200.9X** Units: **µg/L** Analysis Date **10/31/05 2:30:00 PM** Prep Date **10/26/05**
Client ID: Run ID: **INAA2_051031A** SeqNo: **544099**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	10									

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

North Coast Laboratories, Ltd.

Date: 02-Nov-05

CLIENT: LACO Associates
Work Order: 0510553
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS** Batch ID: **R37635** Test Code: **CHR6CW** Units: **µg/L** Analysis Date **10/25/05** Prep Date
Client ID: Run ID: **WC_051025G** SeqNo: **542337**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	85.88	10	80.0	1.26	106%	83	120	0			

Sample ID **LCSD** Batch ID: **R37635** Test Code: **CHR6CW** Units: **µg/L** Analysis Date **10/25/05** Prep Date
Client ID: Run ID: **WC_051025G** SeqNo: **542338**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	75.45	10	80.0	1.26	92.7%	83	120	85.9	12.9%	14	

Sample ID **LCS-14518P** Batch ID: **14518** Test Code: **ICPX** Units: **µg/L** Analysis Date **10/26/05 6:10:00 PM** Prep Date **10/26/05**
Client ID: Run ID: **INICP1_051026D** SeqNo: **542678**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	476.4	20	500	0	95.3%	85	115	0			
Vanadium	479.6	10	500	0	95.9%	85	115	0			

Sample ID **LCS-14518A** Batch ID: **14518** Test Code: **SE200.9X** Units: **µg/L** Analysis Date **10/31/05 4:32:00 PM** Prep Date **10/26/05**
Client ID: Run ID: **INAA2_051031A** SeqNo: **544113**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	23.19	10	20.0	0	116%	85	115	0			S

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

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

Chain of Custody

LABORATORY NUMBER: 0510553

Attention: Accounts Payable
Results & Invoice to: LACO ASSOCIATES
Address: 21 West Fourth Street

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

Sampler (Sign & Print): RLD

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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHg/BTEX (CONTAINER 9, PRESERVATIVE b)	TPHd w/SGC (CONTAINER 7, PRESERVATIVE ------)	Dissolved Cr6, Se, Va, Mo (CONTAINER 2, PRESERVATIVE ------)	Bromate (CONTAINER 2, PRESERVATIVE ------)
	4629-MW27-W	10-24-05	PM	GW			1	
	4629-MW28-W	↓	↓	↓			1	
	4629-MW30-W						1	
	4629-MW34-W						1	
	4629-MW38-W						1	
	4629-MW43-W						1	
	4629-MW44-W						1	

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER
DISSOLVED METALS = F. F.

Cold, intact

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	10-25-05 1010	[signature]	10/25/05 1010

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
FEB 01 2006
BY JR

January 27, 2006

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

Attn: Accounts Payable

RE: 4629.03, HPI-Bulk Plant-UST

Order No.: 0512708
Invoice No.: 55914
PO No.: TASK 3031
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4629-MW1A-W
01D	4629-MW1A-W
02A	4629-MW15-W
02D	4629-MW15-W
03A	4629-MW16-W
03D	4629-MW16-W
04A	4629-MW23-W
04D	4629-MW23-W
05A	4629-MW24-W
05D	4629-MW24-W
06A	4629-MW25-W
06D	4629-MW25-W
07A	4629-MW27-W
07D	4629-MW27-W
07E	4629-MW27-W (Dissolved)
08A	4629-MW28-W
08D	4629-MW28-W
08E	4629-MW28-W (Dissolved)
09A	4629-MW29-W
09D	4629-MW29-W
10A	4629-MW30-W
10D	4629-MW30-W
10E	4629-MW30-W (Dissolved)
11A	4629-MW33-W
11D	4629-MW33-W
12A	4629-MW34-W
12D	4629-MW34-W
12E	4629-MW34-W (Dissolved)

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

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

LMO
DRG
DNL
GH
GEO
HPI
CJW

File
Project #

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

January 27, 2006

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

Order No.: 0512708
Invoice No.: 55914
PO TASK 3031
ELAP No. 1247-Expires July 2006

Attn: Accounts Payable

RE: 4629.03, HPI-Bulk Plant-UST

SAMPLE IDENTIFICATION

13A	4629-MW35-W
13D	4629-MW35-W
14A	4629-MW36-W
14D	4629-MW36-W
15A	4629-MW37-W
15D	4629-MW37-W
16A	4629-MW38-W
16D	4629-MW38-W
16E	4629-MW38-W (Dissolved)
17A	4629-MW39-W
17D	4629-MW39-W
18A	4629-MW40-W
18D	4629-MW40-W
19A	4629-MW41-W
19D	4629-MW41-W
20A	4629-MW42-W
20D	4629-MW42-W
21A	4629-MW43-W
21D	4629-MW43-W
21E	4629-MW43-W (Dissolved)
22A	4629-MW44-W
22D	4629-MW44-W
22E	4629-MW44-W (Dissolved)
23A	4629-QCTB-W
24A	4629-QCMB-W
25A	4629-QCFD-W

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.

Hexavalent Chromium:
The colorimetric analysis of sample 4629-MW43-W (Dissolved) indicated that it was positive. The sample was analyzed by ICP to confirm this result. The ICP analysis did not agree with the colorimetric result; therefore, the hexavalent chromium content of this sample is reported as not quantifiable (NQ).

Sample 4629-MW34-W (Dissolved) was received and analyzed past the holding time.

TPH as Diesel:
The surrogate recovery for sample 4629-MW16-W was outside of the acceptance limits. The surrogate recoveries for the quality control samples were within acceptance limits. This indicates that the low surrogate recovery may be due to matrix effects from the sample.

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were above the upper acceptance limit for diesel. These recoveries indicate that the sample results may be erroneously high. There were no detectable levels of the analyte in the samples; therefore, the data were accepted.

TPH as Diesel with Silica Gel Cleanup:
Samples 4629-MW30-W and 4629-MW34-W contain some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights.

Sample 4629-MW29-W contains material similar to degraded or weathered diesel oil.

Samples 4629-MW25-W, 4629-MW28-W, 4629-MW30-W, 4629-MW34-W, 4629-MW37-W, 4629-MW38-W, 4629-MW39-W, 4629-MW41-W, 4629-MW42-W, 4629-MW43-W and 4629-MW44-W contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

The relative percent differences (RPDs) for the laboratory control samples were above the acceptance limits for diesel and the surrogate. This indicates that the results could be variable.

TPH as Gasoline:
Sample 4629-MW25-W does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range.

Samples 4629-MW30-W and 4629-MW34-W appear to be similar to gasoline but certain peak ratios

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.

The gasoline value for sample 4629-MW38-W includes the reported gasoline components in addition to other peaks in the gasoline range.

The gasoline values for samples 4629-MW28-W, 4629-MW43-W, 4629-MW44-W and 4629-QCFD-W include the reported gasoline components and additives in addition to other peaks in the gasoline range.

BTEX:
Some reporting limits were raised for samples 4629-MW25-W, 4629-MW39-W, 4629-MW41-W, 4629-MW43-W, 4629-MW44-W and 4629-QCFD-W due to matrix interference.

Sample 4629-MW34-W was diluted and the reporting limits raised additionally due to matrix interference.

The surrogate for sample 4629-MW34-W could not be quantified due to a large amount of early eluting material.

Suggest the confirmation of the positive MTBE results for samples 4629-MW35-W, 4629-MW36-W, 4629-MW37-W, 4629-MW38-W, 4629-MW39-W, 4629-MW40-W, 4629-MW41-W and 4629-MW42-W by GC/MS.

Sample 4629-MW30-W was reported as ND with a dilution due to matrix interference.

The surrogate recoveries were below the lower acceptance limit for samples 4629-MW23-W and 4629-MW29-W. The response of the reporting limit standard was such that the analytes would have been detected even with the low recoveries; therefore, the data were accepted.

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW1A-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-01A **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		1/10/06
Benzene	0.66	0.50	µg/L	1.0		1/10/06
Toluene	ND	0.50	µg/L	1.0		1/10/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/10/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/10/06
o-Xylene	ND	0.50	µg/L	1.0		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	94.1	85-115	% Rec	1.0		1/10/06

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		1/10/06

Client Sample ID: 4629-MW1A-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-01D **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	1/3/06	1/6/06
Surrogate: N-Tricosane	82.1	70-130	% Rec	1.0	1/3/06	1/6/06

Client Sample ID: 4629-MW15-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-02A **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		1/10/06
Benzene	ND	0.50	µg/L	1.0		1/10/06
Toluene	ND	0.50	µg/L	1.0		1/10/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/10/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/10/06
o-Xylene	ND	0.50	µg/L	1.0		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	104	85-115	% Rec	1.0		1/10/06

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		1/10/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW15-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-02D **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	1/3/06	1/6/06
Surrogate: N-Tricosane	93.8	70-130	% Rec	1.0	1/3/06	1/6/06

Client Sample ID: 4629-MW16-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-03A **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		1/10/06
Benzene	ND	0.50	µg/L	1.0		1/10/06
Toluene	ND	0.50	µg/L	1.0		1/10/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/10/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/10/06
o-Xylene	ND	0.50	µg/L	1.0		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	93.3	85-115	% Rec	1.0		1/10/06

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		1/10/06

Client Sample ID: 4629-MW16-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-03D **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	1/3/06	1/6/06
Surrogate: N-Tricosane	69.0	70-130	% Rec	1.0	1/3/06	1/6/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW23-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-04A **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		1/10/06
Benzene	ND	0.50	µg/L	1.0		1/10/06
Toluene	ND	0.50	µg/L	1.0		1/10/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/10/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/10/06
o-Xylene	ND	0.50	µg/L	1.0		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	83.9	85-115	% Rec	1.0		1/10/06

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		1/10/06

Client Sample ID: 4629-MW23-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-04D **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	1/3/06	1/6/06
Surrogate: N-Tricosane	79.6	70-130	% Rec	1.0	1/3/06	1/6/06

Client Sample ID: 4629-MW24-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-05A **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		1/10/06
Benzene	ND	0.50	µg/L	1.0		1/10/06
Toluene	ND	0.50	µg/L	1.0		1/10/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/10/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/10/06
o-Xylene	ND	0.50	µg/L	1.0		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	93.0	85-115	% Rec	1.0		1/10/06

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		1/10/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW24-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-05D **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	1/3/06	1/6/06
Surrogate: N-Tricosane	79.8	70-130	% Rec	1.0	1/3/06	1/6/06

Client Sample ID: 4629-MW25-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-06A **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		1/10/06
Benzene	ND	0.50	µg/L	1.0		1/10/06
Toluene	ND	3.5	µg/L	1.0		1/10/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/10/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/10/06
o-Xylene	ND	0.50	µg/L	1.0		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	96.5	85-115	% Rec	1.0		1/10/06

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		1/10/06

Client Sample ID: 4629-MW25-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-06D **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)	55	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	59.4	38-129	% Rec	1.0	1/11/06	1/25/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW27-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-07A **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		1/10/06
Benzene	0.94	0.50	µg/L	1.0		1/10/06
Toluene	ND	0.50	µg/L	1.0		1/10/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/10/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/10/06
o-Xylene	ND	0.50	µg/L	1.0		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	92.2	85-115	% Rec	1.0		1/10/06

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		1/10/06

Client Sample ID: 4629-MW27-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-07D **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	1/11/06	1/25/06
Surrogate: N-Tricosane	88.7	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW27-W (Dissolved) **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-07E **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		12/30/05

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	1/5/06	1/9/06
Vanadium	ND	10	µg/L	1.0	1/5/06	1/9/06

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	1/5/06	1/6/05

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW28-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-08A **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		1/10/06
Benzene	2.6	0.50	µg/L	1.0		1/10/06
Toluene	ND	0.50	µg/L	1.0		1/10/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/10/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/10/06
o-Xylene	ND	0.50	µg/L	1.0		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	95.8	85-115	% Rec	1.0		1/10/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	86	50	µg/L	1.0		1/10/06

Client Sample ID: 4629-MW28-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-08D **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)	56	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	75.9	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW28-W (Dissolved) **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-08E **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		12/30/05

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	1/5/06	1/9/06
Vanadium	ND	10	µg/L	1.0	1/5/06	1/9/06

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	1/5/06	1/6/05

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW29-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-09A **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		1/10/06
Benzene	ND	0.50	µg/L	1.0		1/10/06
Toluene	ND	0.50	µg/L	1.0		1/10/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/10/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/10/06
o-Xylene	ND	0.50	µg/L	1.0		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	83.1	85-115	% Rec	1.0		1/10/06

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		1/10/06

Client Sample ID: 4629-MW29-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-09D **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)	160	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	80.8	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW30-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-10A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	30	µg/L	10		1/10/06
Benzene	3,300	250	µg/L	500		1/10/06
Toluene	24	5.0	µg/L	10		1/10/06
Ethylbenzene	23	5.0	µg/L	10		1/10/06
m,p-Xylene	67	5.0	µg/L	10		1/10/06
o-Xylene	29	5.0	µg/L	10		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	101	85-115	% Rec	10		1/10/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	5,600	500	µg/L	10		1/10/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW30-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-10D **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)	230	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	64.0	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW30-W (Dissolved) **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-10E **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		12/30/05

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	1/5/06	1/9/06
Vanadium	ND	10	µg/L	1.0	1/5/06	1/9/06

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	1/5/06	1/6/05

Client Sample ID: 4629-MW33-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-11A **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		1/9/06
Benzene	ND	0.50	µg/L	1.0		1/9/06
Toluene	ND	0.50	µg/L	1.0		1/9/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/9/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/9/06
o-Xylene	ND	0.50	µg/L	1.0		1/9/06
Surrogate: Cis-1,2-Dichloroethylene	88.2	85-115	% Rec	1.0		1/9/06

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		1/9/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW33-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-11D **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	1/3/06	1/6/06
Surrogate: N-Tricosane	91.7	70-130	% Rec	1.0	1/3/06	1/6/06

Client Sample ID: 4629-MW34-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-12A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	100	µg/L	10		1/10/06
Benzene	79	5.0	µg/L	10		1/10/06
Toluene	28	5.0	µg/L	10		1/10/06
Ethylbenzene	67	5.0	µg/L	10		1/10/06
m,p-Xylene	88	5.0	µg/L	10		1/10/06
o-Xylene	23	5.0	µg/L	10		1/10/06
Surrogate: Cis-1,2-Dichloroethylene	NQ	85-115	% Rec	10		1/10/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	5,100	500	µg/L	10		1/10/06

Client Sample ID: 4629-MW34-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-12D **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)	420	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	69.4	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW34-W (Dissolved) **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-12E **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		12/30/05

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06

ANALYTICAL REPORT

WorkOrder: 0512708

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	1/5/06	1/9/06
Vanadium	ND	10	µg/L	1.0	1/5/06	1/9/06

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	1/5/06	1/6/05

Client Sample ID: 4629-MW35-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00

Lab ID: 0512708-13A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	8.5	3.0	µg/L	1.0		1/9/06
Benzene	ND	0.50	µg/L	1.0		1/9/06
Toluene	ND	0.50	µg/L	1.0		1/9/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/9/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/9/06
o-Xylene	ND	0.50	µg/L	1.0		1/9/06
Surrogate: Cis-1,2-Dichloroethylene	99.9	85-115	% Rec	1.0		1/9/06

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		1/9/06

Client Sample ID: 4629-MW35-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00

Lab ID: 0512708-13D **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	1/3/06	1/7/06
Surrogate: N-Tricosane	86.1	70-130	% Rec	1.0	1/3/06	1/7/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW36-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-14A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	4.7	3.0	µg/L	1.0		1/11/06
Benzene	ND	0.50	µg/L	1.0		1/11/06
Toluene	ND	0.50	µg/L	1.0		1/11/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/11/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/11/06
o-Xylene	ND	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	85.5	85-115	% Rec	1.0		1/11/06

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		1/11/06

Client Sample ID: 4629-MW36-W **Received:** 12/29/05 **Collected:** 12/28/05 0:00
Lab ID: 0512708-14D **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	1/3/06	1/7/06
Surrogate: N-Tricosane	84.9	70-130	% Rec	1.0	1/3/06	1/7/06

Client Sample ID: 4629-MW37-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-15A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	4.8	3.0	µg/L	1.0		1/11/06
Benzene	0.56	0.50	µg/L	1.0		1/11/06
Toluene	ND	0.50	µg/L	1.0		1/11/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/11/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/11/06
o-Xylene	ND	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	95.3	85-115	% Rec	1.0		1/11/06

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		1/11/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

ANALYTICAL REPORT

Client Sample ID: 4629-MW37-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-15D **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)	58	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	56.2	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW38-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-16A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	12	3.0	µg/L	1.0		1/11/06
Benzene	63	5.0	µg/L	10		1/11/06
Toluene	2.0	0.50	µg/L	1.0		1/11/06
Ethylbenzene	2.0	0.50	µg/L	1.0		1/11/06
m,p-Xylene	1.2	0.50	µg/L	1.0		1/11/06
o-Xylene	0.89	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	96.6	85-115	% Rec	1.0		1/11/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	300	50	µg/L	1.0		1/11/06

Client Sample ID: 4629-MW38-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-16D **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)	75	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	73.4	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW38-W (Dissolved) **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-16E **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		12/30/05

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831
Printed on Recycled Paper

Date: 26-Jan-06

ANALYTICAL REPORT

WorkOrder: 0512708

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	1/5/06	1/9/06
Vanadium	ND	10	µg/L	1.0	1/5/06	1/9/06

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	1/5/06	1/6/05

Client Sample ID: 4629-MW39-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00

Lab ID: 0512708-17A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	11	3.0	µg/L	1.0		1/11/06
Benzene	ND	0.50	µg/L	1.0		1/11/06
Toluene	ND	0.50	µg/L	1.0		1/11/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/11/06
m,p-Xylene	ND	1.5	µg/L	1.0		1/11/06
o-Xylene	ND	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	99.3	85-115	% Rec	1.0		1/11/06

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		1/11/06

Client Sample ID: 4629-MW39-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00

Lab ID: 0512708-17D **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)	52	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	70.1	38-129	% Rec	1.0	1/11/06	1/25/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831
Printed on Recycled Paper

ANALYTICAL REPORT

Client Sample ID: 4629-MW40-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-18A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	6.5	3.0	µg/L	1.0		1/11/06
Benzene	ND	0.50	µg/L	1.0		1/11/06
Toluene	ND	0.50	µg/L	1.0		1/11/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/11/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/11/06
o-Xylene	ND	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	103	85-115	% Rec	1.0		1/11/06

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		1/11/06

Client Sample ID: 4629-MW40-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-18D **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	1/11/06	1/25/06
Surrogate: N-Tricosane	63.4	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW41-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-19A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	3.9	3.0	µg/L	1.0		1/11/06
Benzene	0.52	0.50	µg/L	1.0		1/11/06
Toluene	ND	0.50	µg/L	1.0		1/11/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/11/06
m,p-Xylene	ND	1.5	µg/L	1.0		1/11/06
o-Xylene	ND	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	99.7	85-115	% Rec	1.0		1/11/06

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		1/11/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831
Printed on Recycled Paper

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW41-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-19D **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)	67	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	63.4	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW42-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-20A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	3.9	3.0	µg/L	1.0		1/11/06
Benzene	ND	0.50	µg/L	1.0		1/11/06
Toluene	ND	0.50	µg/L	1.0		1/11/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/11/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/11/06
o-Xylene	ND	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	102	85-115	% Rec	1.0		1/11/06

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		1/11/06

Client Sample ID: 4629-MW42-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-20D **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)	54	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	71.7	38-129	% Rec	1.0	1/11/06	1/25/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831
Printed on Recycled Paper

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW43-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-21A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	50	µg/L	1.0		1/11/06
Benzene	68	50	µg/L	100		1/11/06
Toluene	0.71	0.50	µg/L	1.0		1/11/06
Ethylbenzene	2.8	0.50	µg/L	1.0		1/11/06
m,p-Xylene	0.61	0.50	µg/L	1.0		1/11/06
o-Xylene	1.1	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	92.8	85-115	% Rec	100		1/11/06

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		1/11/06

Client Sample ID: 4629-MW43-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-21D **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)	53	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	43.1	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW43-W (Dissolved) **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-21E **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	NQ	10	µg/L	1.0		12/30/05

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	1/5/06	1/9/06
Vanadium	ND	10	µg/L	1.0	1/5/06	1/9/06

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	1/5/06	1/6/05

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831
Printed on Recycled Paper

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-MW44-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-22A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	40	µg/L	1.0		1/11/06
Benzene	740	500	µg/L	1,000		1/11/06
Toluene	3.8	0.50	µg/L	1.0		1/11/06
Ethylbenzene	9.4	0.50	µg/L	1.0		1/11/06
m,p-Xylene	2.7	0.50	µg/L	1.0		1/11/06
o-Xylene	2.5	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	92.9	85-115	% Rec	1,000		1/11/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1,800	500	µg/L	10		1/11/06

Client Sample ID: 4629-MW44-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-22D **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)	67	50	µg/L	1.0	1/11/06	1/25/06
Surrogate: N-Tricosane	47.5	38-129	% Rec	1.0	1/11/06	1/25/06

Client Sample ID: 4629-MW44-W (Dissolved) **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-22E **Matrix:** Groundwater

Test Name: Hexavalent Chromium **Reference:** Std. Meth. 19th Ed. 3500-Cr-D

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Hexavalent Chromium	ND	10	µg/L	1.0		12/30/05

Test Name: ICAP Metals with Acid Digestion **Reference:** EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Molybdenum	ND	20	µg/L	1.0	1/5/06	1/9/06
Vanadium	10	10	µg/L	1.0	1/5/06	1/9/06

Test Name: Selenium **Reference:** EPA 200.9

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Selenium	ND	10	µg/L	1.0	1/5/06	1/6/05

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831
Printed on Recycled Paper

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-QCTB-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-23A **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		1/9/06
Benzene	ND	0.50	µg/L	1.0		1/9/06
Toluene	ND	0.50	µg/L	1.0		1/9/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/9/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/9/06
o-Xylene	ND	0.50	µg/L	1.0		1/9/06
Surrogate: Cis-1,2-Dichloroethylene	91.4	85-115	% Rec	1.0		1/9/06

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		1/9/06

Client Sample ID: 4629-QCMB-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-24A **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		1/11/06
Benzene	ND	0.50	µg/L	1.0		1/11/06
Toluene	ND	0.50	µg/L	1.0		1/11/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/11/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/11/06
o-Xylene	ND	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	91.8	85-115	% Rec	1.0		1/11/06

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		1/11/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831
Printed on Recycled Paper

Date: 26-Jan-06
WorkOrder: 0512708

ANALYTICAL REPORT

Client Sample ID: 4629-QCFD-W **Received:** 12/29/05 **Collected:** 12/29/05 0:00
Lab ID: 0512708-25A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	30	µg/L	1.0		1/11/06
Benzene	740	500	µg/L	1,000		1/11/06
Toluene	3.1	0.50	µg/L	1.0		1/11/06
Ethylbenzene	7.6	0.50	µg/L	1.0		1/11/06
m,p-Xylene	2.0	0.50	µg/L	1.0		1/11/06
o-Xylene	2.0	0.50	µg/L	1.0		1/11/06
Surrogate: Cis-1,2-Dichloroethylene	92.7	85-115	% Rec	1,000		1/11/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1,800	50	µg/L	1.0		1/11/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831
Printed on Recycled Paper

North Coast Laboratories, Ltd.

Date: 26-Jan-06

CLIENT: LACO Associates
Work Order: 0512708
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Method Blank

Sample ID: **MB-010906** Batch ID: **R39133** Test Code: **BTXEW** Units: **µg/L** Analysis Date: **1/9/06 10:00:02 PM** Prep Date:
Client ID: Run ID: **ORGC8_060109B** SeqNo: **562345**

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	0.929	0.10	1.00	0	92.9%	85	115	0			

Sample ID: **MB-1/10/06** Batch ID: **R39144** Test Code: **BTXEW** Units: **µg/L** Analysis Date: **1/11/06 12:09:31 AM** Prep Date:
Client ID: Run ID: **ORGC8_060110B** SeqNo: **562456**

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	0.898	0.10	1.00	0	89.9%	85	115	0			

Sample ID: **MBLK** Batch ID: **R38941** Test Code: **CHR6CW** Units: **µg/L** Analysis Date: **12/30/05** Prep Date:
Client ID: Run ID: **WC_051230G** SeqNo: **559870**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.6762	10									J

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: 0512708
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Method Blank

Sample ID: **MB-14952P** Batch ID: **14952** Test Code: **ICPX** Units: **µg/L** Analysis Date: **1/9/06 1:06:00 PM** Prep Date: **1/5/06**
Client ID: Run ID: **INICP1_060109A** SeqNo: **561485**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	ND	20									
Vanadium	ND	10									

Sample ID: **MB-14952A** Batch ID: **14952** Test Code: **SE200.9X** Units: **µg/L** Analysis Date: **1/6/05 1:55:00 PM** Prep Date: **1/5/06**
Client ID: Run ID: **INAA2_060106A** SeqNo: **561188**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	10									

Sample ID: **MB-14970** Batch ID: **14970** Test Code: **SGTPHDW** Units: **µg/L** Analysis Date: **1/25/06 11:31:02 AM** Prep Date: **1/11/06**
Client ID: Run ID: **ORGC5_060125A** SeqNo: **566141**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	44.09	50									J
N-Tricosane	47.7	0.10	50.0	0	95.4%	38	129	0			

Sample ID: **MB-010906** Batch ID: **R39128** Test Code: **TPHCGW** Units: **µg/L** Analysis Date: **1/9/06 10:00:02 PM** Prep Date:
Client ID: Run ID: **ORGC8_060109A** SeqNo: **562264**

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

Sample ID: **MB-1/10/06** Batch ID: **R39130** Test Code: **TPHCGW** Units: **µg/L** Analysis Date: **1/11/06 12:09:31 AM** Prep Date:
Client ID: Run ID: **ORGC8_060110A** SeqNo: **562294**

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: 0512708
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Method Blank

Sample ID: **MB-14938** Batch ID: **14938** Test Code: **TPHDIW** Units: **µg/L** Analysis Date: **1/6/06 8:55:42 PM** Prep Date: **1/3/06**

Client ID: Run ID: **ORGC5_060106A** SeqNo: **562747**

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	47.9	0.10	50.0	0	95.8%	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

North Coast Laboratories, Ltd.

Date: 26-Jan-06

CLIENT: LACO Associates
Work Order: 0512708
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: **LCS-06014** Batch ID: **R39133** Test Code: **BTXEW** Units: **µg/L** Analysis Date: **1/9/06 7:06:51 PM** Prep Date:

Client ID: Run ID: **ORGC8_060109B** SeqNo: **562329**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	43.60	3.0	40.0	0	109%	85	115	0			
Benzene	5.317	0.50	5.00	0	106%	85	115	0			
Toluene	5.371	0.50	5.00	0	107%	85	115	0			
Ethylbenzene	5.348	0.50	5.00	0	107%	85	115	0			
m,p-Xylene	10.63	0.50	10.0	0	106%	85	115	0			
o-Xylene	5.414	0.50	5.00	0	108%	85	115	0			
Cis-1,2-Dichloroethylene	0.966	0.10	1.00	0	96.6%	85	115	0			

Sample ID: **LCSD-06017** Batch ID: **R39133** Test Code: **BTXEW** Units: **µg/L** Analysis Date: **1/10/06 4:21:06 AM** Prep Date:

Client ID: Run ID: **ORGC8_060109B** SeqNo: **562355**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	40.60	3.0	40.0	0	102%	85	115	43.6	7.12%	15	
Benzene	5.129	0.50	5.00	0	103%	85	115	5.32	3.60%	15	
Toluene	5.119	0.50	5.00	0	102%	85	115	5.37	4.79%	15	
Ethylbenzene	5.103	0.50	5.00	0	102%	85	115	5.35	4.69%	15	
m,p-Xylene	10.19	0.50	10.0	0	102%	85	115	10.6	4.25%	15	
o-Xylene	5.171	0.50	5.00	0	103%	85	115	5.41	4.60%	15	
Cis-1,2-Dichloroethylene	0.986	0.10	1.00	0	98.6%	85	115	0.966	2.05%	15	

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: 0512708
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: **LCS-06019** Batch ID: **R39144** Test Code: **BTXEW** Units: **µg/L** Analysis Date: **1/10/06 10:25:14 PM** Prep Date:
Client ID: Run ID: **ORGC8_060110B** SeqNo: **562455**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	40.56	3.0	40.0	0	101%	85	115	0			
Benzene	4.986	0.50	5.00	0	99.7%	85	115	0			
Toluene	5.050	0.50	5.00	0	101%	85	115	0			
Ethylbenzene	5.005	0.50	5.00	0	100%	85	115	0			
m,p-Xylene	10.07	0.50	10.0	0	101%	85	115	0			
o-Xylene	5.076	0.50	5.00	0	102%	85	115	0			
Cis-1,2-Dichloroethylene	1.09	0.10	1.00	0	109%	85	115	0			

Sample ID: **LCSD-06019** Batch ID: **R39144** Test Code: **BTXEW** Units: **µg/L** Analysis Date: **1/11/06 7:39:20 AM** Prep Date:
Client ID: Run ID: **ORGC8_060110B** SeqNo: **562466**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	39.08	3.0	40.0	0	97.7%	85	115	40.6	3.72%	15	
Benzene	4.982	0.50	5.00	0	99.6%	85	115	4.99	0.0809%	15	
Toluene	5.013	0.50	5.00	0	100%	85	115	5.05	0.729%	15	
Ethylbenzene	5.017	0.50	5.00	0	100%	85	115	5.00	0.237%	15	
m,p-Xylene	10.05	0.50	10.0	0	100%	85	115	10.1	0.240%	15	
o-Xylene	5.019	0.50	5.00	0	100%	85	115	5.08	1.12%	15	
Cis-1,2-Dichloroethylene	1.06	0.10	1.00	0	106%	85	115	1.09	2.46%	15	

Sample ID: **LCS** Batch ID: **R38941** Test Code: **CHR6CW** Units: **µg/L** Analysis Date: **12/30/05** Prep Date:
Client ID: Run ID: **WC_051230G** SeqNo: **559871**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	80.66	10	80.0	0.676	100%	83	120	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

CLIENT: LACO Associates
Work Order: 0512708
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: **LCSD** Batch ID: **R38941** Test Code: **CHR6CW** Units: **µg/L** Analysis Date: **12/30/05** Prep Date:
Client ID: Run ID: **WC_051230G** SeqNo: **559872**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	77.19	10	80.0	0.676	95.6%	83	120	80.7	4.41%	14	

Sample ID: **LCS-14952P** Batch ID: **14952** Test Code: **ICPX** Units: **µg/L** Analysis Date: **1/9/06 1:10:00 PM** Prep Date: **1/5/06**
Client ID: Run ID: **INICP1_060109A** SeqNo: **561486**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	476.0	20	500	0	95.2%	85	115	0			
Vanadium	480.4	10	500	0	96.1%	85	115	0			

Sample ID: **LCS-14952A** Batch ID: **14952** Test Code: **SE200.9X** Units: **µg/L** Analysis Date: **1/6/05 2:01:00 PM** Prep Date: **1/5/06**
Client ID: Run ID: **INAA2_060106A** SeqNo: **561189**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	19.37	10	20.0	0	96.9%	85	115	0			

Sample ID: **LCS-14970** Batch ID: **14970** Test Code: **SGTPHDW** Units: **µg/L** Analysis Date: **1/25/06 10:03:29 AM** Prep Date: **1/11/06**
Client ID: Run ID: **ORGC5_060125A** SeqNo: **566139**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	346.2	50	500	0	69.2%	41	96	0			
N-Tricosane	46.0	0.10	50.0	0	92.1%	38	129	0			

Sample ID: **LCSD-14970** Batch ID: **14970** Test Code: **SGTPHDW** Units: **µg/L** Analysis Date: **1/25/06 10:25:07 AM** Prep Date: **1/11/06**
Client ID: Run ID: **ORGC5_060125A** SeqNo: **566140**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	449.1	50	500	0	89.8%	41	96	346	25.9%	15	R
N-Tricosane	53.6	0.10	50.0	0	107%	38	129	46.0	15.1%	15	R

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: 0512708
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: **LCS-06015** Batch ID: **R39128** Test Code: **TPHCGW** Units: **µg/L** Analysis Date: **1/9/06 8:16:08 PM** Prep Date:
Client ID: Run ID: **ORGC8_060109A** SeqNo: **562262**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	439.9	50	500	0	88.0%	85	115	0			

Sample ID: **LCSD-06018** Batch ID: **R39128** Test Code: **TPHCGW** Units: **µg/L** Analysis Date: **1/10/06 4:55:42 AM** Prep Date:
Client ID: Run ID: **ORGC8_060109A** SeqNo: **562274**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	442.6	50	500	0	88.5%	85	115	440	0.620%	15	

Sample ID: **LCS-06020** Batch ID: **R39130** Test Code: **TPHCGW** Units: **µg/L** Analysis Date: **1/10/06 11:00:01 PM** Prep Date:
Client ID: Run ID: **ORGC8_060110A** SeqNo: **562293**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	514.1	50	500	0	103%	85	115	0			

Sample ID: **LCSD-06020** Batch ID: **R39130** Test Code: **TPHCGW** Units: **µg/L** Analysis Date: **1/11/06 8:13:46 AM** Prep Date:
Client ID: Run ID: **ORGC8_060110A** SeqNo: **562303**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	511.3	50	500	0	102%	85	115	514	0.554%	15	

Sample ID: **LCS-14938** Batch ID: **14938** Test Code: **TPHDIW** Units: **µg/L** Analysis Date: **1/6/06 6:57:04 PM** Prep Date: **1/3/06**
Client ID: Run ID: **ORGC5_060106A** SeqNo: **562744**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	686.2	50	500	0	137%	67	120	0			S
N-Tricosane	51.8	0.10	50.0	0	104%	70	130	0			

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

CLIENT: LACO Associates
Work Order: 0512708
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: **LCSD-14938** Batch ID: **14938** Test Code: **TPHDIW** Units: **µg/L** Analysis Date: **1/6/06 7:20:41 PM** Prep Date: **1/3/06**

Client ID: Run ID: **ORGC5_060106A** SeqNo: **562745**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	675.0	50	500	0	135%	67	120	686	1.64%	15	S
N-Tricosane	54.4	0.10	50.0	0	109%	70	130	51.8	4.91%	15	

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

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

Chain of Custody

LABORATORY NUMBER: 0512-708

Attention: Accounts Payable
Results & Invoice to: LACO ASSOCIATES
Address: 21 West Fourth Street
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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHg/BTEX (CONTAINER 9, PRESERVATIVE b)	TPHd w/SGC (CONTAINER 7)	Dissolved Cr6, Se, Va, Mo (CONTAINER 2)	Bromate (CONTAINER 2)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4629-MW1A-W	12-28-05	AM	GW	3	1			GEOTRACKER
	4629-MW15-W	↓	↓	↓	3	1			LIMITED QUANTITY FOR TPHd w/SGC
	4629-MW16-W				3	1			
	~~4629-MW17-W~~				~~3~~	~~1~~			
	~~4629-MW20-W~~				~~3~~	~~1~~			DISS. METALS = FF
	4629-MW23-W				3	1			
	4629-MW24-W				3	1			
	4629-MW25-W	↓	PM		3	1			
	4629-MW27-W	12-29-05	AM		3	1	1	1	
	4629-MW28-W	↓	↓	↓	3	1	1	1	

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	12-29-05 4:45pm	Kelly Thompson	12/29/05 1645

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

Chain of Custody

LABORATORY NUMBER: 05/2708

Attention: Accounts Payable
Results & Invoice to: LACO ASSOCIATES
Address: 21 West Fourth Street, 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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHg/BTEX (PRESERVATIVE b, CONTAINER 9)	TPHd w/SGC (PRESERVATIVE ---, CONTAINER 7)	Dissolved Cr6, Se, Va, Mo (PRESERVATIVE ---, CONTAINER 2)	Bromate (PRESERVATIVE ---, CONTAINER 2)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4629-MW29-W	12-29-05	AM	GW	3	1			GEOTRACKER
	4629-MW30-W	↓	PM	↓	3	1	1	1	
	4629-MW33-W	12-28-05	AM		3	1			
	4629-MW34-W	↓	↓		3	1	1	1	DISS. METALS = FF
	4629-MW35-W				3	1			
	4629-MW36-W	↓	PM		3	1			
	4629-MW37-W	12-29-05	AM		3	1			
	4629-MW38-W	↓	↓		3	1	1	1	
	4629-MW39-W				3	1			
	4629-MW40-W	↓	PM	↓	3	1			

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	12-29-05 4:45 pm		12/29/05 1645

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

Chain of Custody

LABORATORY NUMBER: 0512708

Attention: Accounts Payable
Results & Invoice to: LACO ASSOCIATES
Address: 21 West Fourth Street, 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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHg/BTEX (CONTAINER 9, PRESERVATIVE b)	TPHd w/SGC (CONTAINER 7, PRESERVATIVE ----)	Dissolved Cr6, Se, Va, Mo (CONTAINER 2, PRESERVATIVE ----)	Bromate (CONTAINER 2, PRESERVATIVE ----)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4629-MW41-W	12-29-05	Am	GW	3	1			GEOTRACKER
	4629-MW42-W	↓	↓	↓	3	1			
	4629-MW43-W				3	1	1	1	
	4629-MW44-W				3	1	1	1	DISS. METALS = FF
	4629-QCTB-W				1				
	4629-QCMB-W				3				
	4629-QCFD-W	↓	Pm	↓	3				

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	12-29-05 4:45pm	Kelly Thom	12/29/05 1645

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

E.S. BABCOCK & SONS, INC.
Established 1906

Celebrating a Century of Reliable Data

NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

AMENDED

Client Name: North Coast Labs
Contact: Laura Miller
Address: 5680 West End Road
Arcata, CA 95521

Report Date: 02-Feb-2006

RECEIVED
LACO ASSOCIATES
FEB 0 8 2006
BY: JF

Project Name: No Project
Project Number: No Project

Work Order Number: A6A0525

Received on Ice (Y/N): Yes Temp: 2 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department at the phone number above.

Sample Identification

Lab Sample #	Client Sample ID	Matrix	Date Sampled	By	Date Submitted	By
A6A0525-01	0512765-1A 4629-MW27-W	Water	12/29/05 00:00		01/06/06 09:28	UPS
A6A0525-02	0512765-2A 4629-MW28-W	Water	12/29/05 00:00		01/06/06 09:28	UPS
A6A0525-03	0512765-3A 4629-MW30-W	Water	12/29/05 00:00		01/06/06 09:28	UPS
A6A0525-04	0512765-4A 4629-MW34-W	Water	12/28/05 00:00		01/06/06 09:28	UPS
A6A0525-05	0512765-5A 4629-MW38-W	Water	12/29/05 00:00		01/06/06 09:28	UPS
A6A0525-06	0512765-6A 4629-MW43-W	Water	12/29/05 00:00		01/06/06 09:28	UPS
A6A0525-07	0512765-7A 4629-MW44-W	Water	12/29/05 00:00		01/06/06 09:28	UPS

Included in this Data Package please find an amended report for the laboratory number(s) referenced below.
Laboratory Number: A6A0525-04
Reason for Amendment:
As per client's request, sample date is changed from 12/29/05 to reflect correct sample date of 12/28/05.
This report supersedes the report issued on January 24, 2006.

LMO
ORG
DNL
GH
GEO
HPI
CSW

File
Project #

ACCREDITED IN ACCORDANCE WITH nelac

E.S. BABCOCK & SONS, INC.
Established 1906

Celebrating a Century of Reliable Data

NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

AMENDED

Client Name: North Coast Labs
Contact: Laura Miller
Address: 5680 West End Road
Arcata, CA 95521

Report Date: 02-Feb-2006

Project Name: No Project
Project Number: No Project

Work Order Number: A6A0525

Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number

A6A0525-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
0512765-1A 4629-MW27-W	Water	12/29/05 00:00	01/06/06 9:28

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Oxyhalides								
Bromate	ND	10		ug/L	EPA 300.1	01/17/06 20:56	cth	N_RLm

ACCREDITED IN ACCORDANCE WIT
nelac

E.S. BABCOCK & SONS, INC.
Established 1906

Celebrating a Century of Reliable Data

NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

AMENDED

Client Name: North Coast Labs
Contact: Laura Miller
Address: 5680 West End Road
Arcata, CA 95521

Report Date: 02-Feb-2006

Project Name: No Project
Project Number: No Project

Work Order Number: A6A0525

Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
A6A0525-02

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
0512765-2A 4629-MW28-W	Water	12/29/05 00:00	01/06/06 9:28

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Oxyhalides								
Bromate	ND	10		ug/L	EPA 300.1	01/17/06 21:22	cth	N_RLm

ACCREDITED IN ACCORDANCE WITH
nelac

E.S. BABCOCK & SONS, INC.
Established 1906

Celebrating a Century of Reliable Data

NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

AMENDED

Client Name: North Coast Labs
Contact: Laura Miller
Address: 5680 West End Road
Arcata, CA 95521

Report Date: 02-Feb-2006

Project Name: No Project
Project Number: No Project

Work Order Number: A6A0525

Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
A6A0525-03

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
0512765-3A 4629-MW30-W	Water	12/29/05 00:00	01/06/06 9:28

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Oxyhalides								
Bromate	ND	50		ug/L	EPA 300.1	01/18/06 15:46	cth	N_RLm

ACCREDITED IN ACCORDANCE WITH
nelac

E.S. BABCOCK & SONS, INC.
Established 1906

Celebrating a Century of Reliable Data

NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

AMENDED

Client Name: North Coast Labs
Contact: Laura Miller
Address: 5680 West End Road
Arcata, CA 95521

Report Date: 02-Feb-2006

Project Name: No Project
Project Number: No Project

Work Order Number: A6A0525

Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
A6A0525-04

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
0512765-4A 4629-MW34-W	Water	12/28/05 00:00	01/06/06 9:28

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Oxyhalides								
Bromate	ND	10		ug/L	EPA 300.1	01/17/06 22:15	cth	N_RLm

ACCREDITED IN ACCORDANCE WITH
nelac

E.S. BABCOCK & SONS, INC.
Established 1906

Celebrating a Century of Reliable Data

NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

AMENDED

Client Name: North Coast Labs
Contact: Laura Miller
Address: 5680 West End Road
Arcata, CA 95521

Report Date: 02-Feb-2006

Project Name: No Project
Project Number: No Project

Work Order Number: A6A0525

Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
A6A0525-05

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
0512765-5A 4629-MW38-W	Water	12/29/05 00:00	01/06/06 9:28

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Oxyhalides								
Bromate	ND	50		ug/L	EPA 300.1	01/18/06 16:12	cth	N_RLm

ACCREDITED IN ACCORDANCE WIT
nelac

E.S. BABCOCK & SONS, INC.
Established 1906

Celebrating a Century of Reliable Data

NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

AMENDED

Client Name: North Coast Labs
Contact: Laura Miller
Address: 5680 West End Road
Arcata, CA 95521

Report Date: 02-Feb-2006

Project Name: No Project
Project Number: No Project

Work Order Number: A6A0525

Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
A6A0525-06

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
0512765-6A 4629-MW43-W	Water	12/29/05 00:00	01/06/06 9:28

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Oxyhalides								
Bromate	ND	50		ug/L	EPA 300.1	01/18/06 16:39	cth	N_RLm

ACCREDITED IN ACCORDANCE WITH nelac

E.S. BABCOCK & SONS, INC.
Established 1906

Celebrating a Century of Reliable Data

NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

AMENDED

Client Name: North Coast Labs
Contact: Laura Miller
Address: 5680 West End Road
Arcata, CA 95521

Report Date: 02-Feb-2006

Project Name: No Project
Project Number: No Project

Work Order Number: A6A0525

Received on Ice (Y/N): Yes Temp: 2 °C

Laboratory Reference Number
A6A0525-07

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
0512765-7A 4629-MW44-W	Water	12/29/05 00:00	01/06/06 9:28

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Oxyhalides								
Bromate	ND	50		ug/L	EPA 300.1	01/18/06 17:37	cth	N_RLm

ACCREDITED IN ACCORDANCE WITH nelac

E.S. BABCOCK & SONS, INC.
Established 1906

Celebrating a Century of Reliable Data

NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

AMENDED

Client Name: North Coast Labs
Contact: Laura Miller
Address: 5680 West End Road
Arcata, CA 95521

Report Date: 02-Feb-2006

Project Name: No Project
Project Number: No Project

Work Order Number: A6A0525

Received on Ice (Y/N): Yes Temp: 2 °C

Oxyhalides - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6A16048 - Analyzed as received										
Blank (6A16048-BLK1)				Prepared: 01/16/06		Analyzed: 01/18/06				
Bromate	ND	5.0	ug/L							
LCS (6A16048-BS1)				Prepared: 01/16/06		Analyzed: 01/18/06				
Bromate	14.1	5.0	ug/L	15.0		94.0	85-115			
Duplicate (6A16048-DUP1)		**Source: A6A0574-01**		Prepared: 01/16/06		Analyzed: 01/18/06				
Bromate	ND	5.0	ug/L		ND				20	
Duplicate (6A16048-DUP2)		**Source: A6A0796-24**		Prepared: 01/16/06		Analyzed: 01/18/06				
Bromate	ND	5.0	ug/L		ND				20	
Duplicate (6A16048-DUP3)		**Source: A6A0796-26**		Prepared: 01/16/06		Analyzed: 01/18/06				
Bromate	41.8	25	ug/L		39			6.93	20	
Matrix Spike (6A16048-MS1)		**Source: A6A0574-01**		Prepared: 01/16/06		Analyzed: 01/18/06				
Bromate	14.3	5.0	ug/L	15.0	ND	95.3	75-125			
Matrix Spike Dup (6A16048-MSD1)		**Source: A6A0574-01**		Prepared: 01/16/06		Analyzed: 01/18/06				
Bromate	14.7	5.0	ug/L	15.0	ND	98.0	75-125	2.76	20	

ACCREDITED IN ACCORDANCE WITH
nelac

E.S. BABCOCK & SONS, INC.
Established 1906

Celebrating a Century of Reliable Data

NELAP #02101CA ELAP#1156
6100 Quail Valley Court Riverside, CA 92507-0704
P.O. Box 432 Riverside, CA 92502-0432
PH (951) 653-3351 FAX (951) 653-1662
www.babcocklabs.com

AMENDED

Client Name: North Coast Labs
Contact: Laura Miller
Address: 5680 West End Road
Arcata, CA 95521

Report Date: 02-Feb-2006

Project Name: No Project
Project Number: No Project

Work Order Number: A6A0525

Received on Ice (Y/N): Yes Temp: 2 °C

Notes and Definitions

N_RLm Due to sample matrix, the reporting limit for this analyte has been raised.

ND Analyte NOT DETECTED at or above the Method Detection Limit **(if MDL is reported)**, otherwise at or above the Reporting Limit (RL)

NR Not Reported

RDL = Reportable Detection Limit MDL = Method Detection Limit

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

☐ James K. Babcock
President

☐ Allison Mackenzie
General Manager

☐ Lawrence J. Chrystal
Laboratory Director

cc:

ESB_Standard_5.5 Report

ACCREDITED IN ACCORDANCE WITH nelac

AMENDED

NORTH COAST LABORATORIES LTD.

Sub-Contract Chain of Custody Record

Date Shipped: 1/5/06 Carrier: UPS

Air Bill #: _____ Cooler #: _____

PSH

Subcontractor:	E.S. Babcock & Sons, Inc 6100 Quail Valley Ct Riverside, CA 92507	Send Results to:	North Coast Labs 5680 West End Road Arcata, CA 95521 Attn: Laura Miller (707) 822-4649
Phone:	909-653-3351		
Attention Line:	Sample Control		

Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
[signature]	1/5/06 1500		
UPS	1-6-06 0928	[signature]	1-6-06 0928
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time

Analysis Request

NCL Sample #:	Sample ID:	Date Sampled:	Analysis / Matrix:
0512765-1A	4629-MW27-W	12/29/06	Bromate/Groundwater
0512765-2A	4629-MW28-W	12/29/05	Bromate/Groundwater
0512765-3A	4629-MW30-W	12/29/05	Bromate/Groundwater
0512765-4A	4629-MW34-W	~~12/29/05~~ 12/28/05	Bromate/Groundwater
0512765-5A	4629-MW38-W	12/29/05	Bromate/Groundwater
0512765-6A	4629-MW43-W	12/29/05	Bromate/Groundwater
0512765-7A	4629-MW44-W	12/29/05	Bromate/Groundwater

Special Instructions: **Please include Sample ID on analytical report.**
Please include QC Data

A6A0525AB
JAN - 6 2006

Date Due: 1/19/07 Rush Charges Authorized: NO Preservative: None

Return Chain of Custody to NCL

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

Chain of Custody

0512765

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: LACO ASSOCIATES
Address: 21 West Fourth Street
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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHg/BTEX (ANALYSIS)	TPHd w/SGC (ANALYSIS)	Dissolved Cr6, Se, Va, Mo (ANALYSIS)	Bromate (ANALYSIS)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
					PRESERVATIVE: b	------	------	------	
					CONTAINER: 9	7	2	2	
	4629-MW1A-W	12-28-05	AM	GW	3	1			GEOTRACKER
	4629-MW15-W	↓	↓	↓	3	1			LIMITED QUANTITY FOR TPHd w/SGC
	4629-MW16-W				3	1			
	4[redacted]-W				[redacted]	[redacted]			
	4[redacted]-W				[redacted]	[redacted]			DISS. METALS = FF
	4629-MW23-W				3	1			
	4629-MW24-W				3	1			
	4629-MW25-W	↓	PM		3	1			
	4629-MW27-W	12-29-05	AM		3	1	1	1	
	4629-MW28-W	↓	↓	↓	3	1	1	1	

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	12-29-05 4:45PM	Kelly Thompson	12/29/05 1645

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

Chain of Custody

LABORATORY NUMBER: 0512765

Attention: Accounts Payable
Results & Invoice to: LACO ASSOCIATES
Address: 21 West Fourth Street, 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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: TPHg/BTEX (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd w/SGC (CONTAINER 7, PRESERVATIVE —)	ANALYSIS: Dissolved Cr6, Se, Va, Mo (CONTAINER 2, PRESERVATIVE —)	ANALYSIS: Bromate (CONTAINER 2, PRESERVATIVE —)
	4629-MW29-W	12-29-05	AM	GW	3	1		
	4629-MW30-W	↓	PM	↓	3	1	1	1
	4629-MW33-W	12-28-05	AM		3	1		
	4629-MW34-W	↓	↓		3	1	1	1
	4629-MW35-W				3	1		
	4629-MW36-W	↓	PM		3	1		
	4629-MW37-W	12-29-05	AM		3	1		
	4629-MW38-W	↓	↓		3	1	1	1
	4629-MW39-W				3	1		
	4629-MW40-W	↓	PM	↓	3	1		

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER

DISS. METALS = FF

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	12-29-05 4:45 pm		12/29/05 1645

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

Chain of Custody

LABORATORY NUMBER: 0512765

Attention: Accounts Payable
Results & Invoice to: LACO ASSOCIATES
Address: 21 West Fourth Street, 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: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: TPHg/BTEX (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd w/SGC (CONTAINER 7, PRESERVATIVE ----)	ANALYSIS: Dissolved Cr6, Se, Va, Mo (CONTAINER 2, PRESERVATIVE ----)	ANALYSIS: Bromate (CONTAINER 2, PRESERVATIVE ----)
	4629-MW41-W	12-29-05	Am	GW	3	1		
	4629-MW42-W				3	1		
	4629-MW43-W				3	1	1	1
	4629-MW44-W				3	1	1	1
	4629-QCTB-W				1			
	4629-QCMB-W				3			
	4629-QCFD-W		Pm		3			

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER

DISS. METALS = FF

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	12-29-05 4:45pm		12/29/05 1645

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 4

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

Project Name: BULK PLANT HPI / PFP
Project No.: 4629.03
Task: 4/3
Date: 11/10/05
PM: CJW

Tech: BWV
Mobe/Demobe time: .25 / .25
Travel time: .5 / .5
Time on site: 1045
Time off site: 1230
Mileage: 40

SYSTEM READINGS

UNIT: C-SPARGER #5

Master Panel Runtime (Hrs): 1861.97
O_2 Concentrator Runtime (Hrs): 3667.98
System Clock Time: 11 48 @ 1224

STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	28		
2	24		
3	26		
4	23		
5	27		
6	25		
7	29		
8	21		
9	27		
10	26		
11	19		
12	—		

UNIT: OXYGEN CONCENTRATOR #5

Master Panel Runtime (Hrs):
O_2 Concentrator Runtime (Hrs):
System Clock Time:

STATION	MANIFOLD ~~PRESSURE (psi)~~ l/min	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	8		
2	6		
3	7		
4	7		
5	7		
6	6		
7			
8			
9			
10			
11			
12			

ANCILLARY INFORMATION

Power Meter (Kwh): 23476
Max. Humidity (%RH): HIGH
Surge Suppression: (ON) / OFF

Max. Temperature (°F): 103.3°F
Ventilation Fan(s): (ON) / OFF
Controller Battery Voltage (volts): N/A

TROUBLESHOOTING

Ozone Detector Fault: YES / (NO)
Panel GFI Fault: (YES) / NO
Controller Fault: YES / (NO)
Solenoid Malfunction: ✓1 2 3 4 5 6 7 8 9 10 11 12
Tubing: ✓

16A Breaker Fault: YES / (NO)
Main Circuit Breaker Fault: YES / (NO)
Fasteners/Fittings: ✓
Correct Controller Program: (YES) / NO
Wires: ✓

MAINTENANCE

O_2 Concentrator Filter: (YES) / NO
Compressor Filter: X2L X6S (YES) / NO

Reset Temperature/Humidity: (YES) / NO
Check Peroxide Level: N/A YES / NO

STATION	RUN TIME				SPARGE POINT	WELL BOX OZONE CONC. (ppm)
	A	B	C	HOURS/DAY		
1	NO	CHANGE				
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
TOTAL:						

START TIMES	A	B	C
1			
2			
3			
4			
5			
6			

REPAIRS

C-SPARGER #5's OZONE GENERATOR HAS FAILED, KERFOOT HAS GONE HOME FOR THE DAY. PLAN ON HAVING ANDREW OR LINA HELP WITH DIAGNOSIS

MODIFICATIONS

REPLACED OXYGEN CONCENTRATOR #5's INTAKE FILTERS (QTY 6)

9

LACO ASSOCIATES
CONSULTING ENGINEERS

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

Project Name: BULK PLANT HPI / PFP
Project No.: 4679.03
Task: 413
Date: 11/18/05
PM: CJW

Tech: BWN
Mobe/Demobe time: .5 / .25
Travel time: .5 / .5
Time on site: 1405
Time off site: 1515
Mileage: 40

SYSTEM READINGS

UNIT: C-SPARGER #5

Master Panel Runtime (Hrs): 1876.95
O_2 Concentrator Runtime (Hrs): 3682.99
System Clock Time: 308 @ 308

STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	27		
2	24		
3	26		
4	24		
5	28		
6	22		
7	28		
8	23		
9	28		
10	26		
11	22		
12	—		

UNIT: OXYGEN CONCENTRATOR #5

Master Panel Runtime (Hrs): —
O_2 Concentrator Runtime (Hrs): —
System Clock Time: —

STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	8		
2	6		
3	7		
4	7		
5	7		
6	6		
7			
8			
9			
10			
11			
12			

ANCILLARY INFORMATION

Power Meter (Kwh): 24060
Max. Humidity (%RH): HIGH
Surge Suppression: (ON) / OFF

Max. Temperature (°F): 102.1°F
Ventilation Fan(s): (ON) / OFF
Controller Battery Voltage (volts): N/A

TROUBLESHOOTING

Ozone Detector Fault: YES / (NO)
Panel GFI Fault: YES / (NO)
Controller Fault: YES / (NO)
Solenoid Malfunction: OK 1 2 3 4 5 6 7 8 9 10 11 12
Tubing: ✓

16A Breaker Fault: YES / (NO)
Main Circuit Breaker Fault: YES / (NO)
Fasteners/Fittings: ✓
Correct Controller Program: (YES) / NO
Wires: ✓

MAINTENANCE

O_2 Concentrator Filter: (YES) / NO
Compressor Filter: (YES) / NO

Reset Temperature/Humidity: (~~YES~~) / NO
Check Peroxide Level: N/A YES / NO

STATION	RUN TIME				SPARGE POINT	WELL BOX OZONE CONC. (ppm)
	A	B	C	HOURS/DAY		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
TOTAL:						

START TIMES	A	B	C	REPAIRS
1				INSTALLED NEW/REPLACEMENT OZONE GENERATOR. NO OZONE 11/10/05 → 11/17/05.
2				
3				
4				
5				
6				

MODIFICATIONS

Pressures and Flow Rates
HPI, Bulk Plant; Fortuna
4629.03

0.0353#

DTW ~ 5 feet

Date	Spage Well ID	Restriction (open/closed)	C-sparger manifold pressure (PSI)	Well head pressure (PSI)	Well head flow rate (l/min)	Comments
7/8/2005	SP1U2 13'	closed	12	10	8.1	0.28 gpm + 0 psi + 3.5 head
	SP1U2	open	19	15	27	0.95 + 1 psi + 3.5
7/11/2005	SP1U2	closed	12	10	8.1	0.28
	SP1U2	open	19	15	27	
7/8/2005	SP1U3	closed	11	10	9	
	SP1U3	open	18	11	34	
7/11/2005	SP1U3	closed	11	10	9	
	SP1U3	open	18	11	34	
7/8/2005	SP1U2/3	open	16	12	14	measured @ U2
	SP1U2/3	open	17	10	24	measured @ U3
7/11/2005	SP1U2/3	open	16	12	14	measured @ U2
	SP1U2/3	open	17	10	24	measured @ U3
7/8/2005	SP2U2	closed	11	10	9	
	SP2U2	open	18	13	30	
7/11/2005	SP2U2	closed	11	10	9	
	SP2U2	open	18	13	30	
7/8/2005	SP2U3	closed	12	10	7	
	SP2U3	open	20	15	28	
7/11/2005	SP2U3	closed	12	10	7	
	SP2U3	open	20	15	28	
7/8/2005	SP2U2/3	closed	11	9	7	measured @ U2
	SP2U2/3	open	16	12	20	measured @ U2
	SP2U2/3	closed	16	12	16	measured @ U3
7/11/2005	SP2U2/3	open	16	12	20	measured @ U2
	SP2U2/3	open	16	12	16	measured @ U3

Pressures and Flow Rates
HPI, Bulk Plant; Fortuna
4629.03

Date	Spage Well ID	Restriction (open/closed)	C-sparger manifold pressure (PSI)	Well head pressure (PSI)	Well head flow rate (l/min)	Comments
7/8/2005	SP3U2	closed	12	8	10	
	SP3U2	open	20	15	30-40	
7/8/2005	SP3U3	closed	12	11	6	
	SP3U3	open	22	20	21	
7/8/2005	SP4U2	closed	11	10	7	
	SP4U2	open	18	13	33	
7/8/2005	SP4U3	closed	12	12	5	
	SP4U3	open	20	17	26	
7/8/2005	SP5U2	closed	12	10	18	
	SP5U2	open	24	14	45+	
7/8/2005	SP5U3	closed	13	10	23	
	SP5U3	open	20	12	45+	
7/8/2005	SP7U2	open	19	15	21	
7/8/2005	SP7U3	open	21	17	19	
7/8/2005	SP7U2/3	open	17	14	15	measured @ U2
	SP7U2/3	open	18	14	15	measured @ U3
7/8/2005	SP8U2	open	19	13	30	
7/8/2005	SP8U3	open	21	17	23	
7/8/2005	SP8U2/3	open	17	11	27	measured @ U2
	SP8U2/3	open	17	14	9	measured @ U3

LACO ASSOCIATES
CONSULTING ENGINEERS

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

Project Name:	BULK PLANT	Tech:	BWN
Project No.:	4629.03	Mobe/Demobe time:	.25/.25
Task:	413	Travel time:	.5/.5
Date:	11/29/2005	Time on site:	1400
PM:	CJW	Time off site:	1445
		Mileage:	40

SYSTEM READINGS

UNIT: C-SPARGER #5		UNIT: OXYGEN CONCENTRATOR 5	
Master Panel Runtime (Hrs):	2050.40	Master Panel Runtime (Hrs):	—
O_2 Concentrator Runtime (Hrs):	3856.38	O_2 Concentrator Runtime (Hrs):	—
System Clock Time:	1440 @ 1440	System Clock Time:	—

STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)	STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	24	SP5U2,3		1	8		
2	24	SP1U2,3		2	6		
3	25	SP7U2,3		3	7		
4	25	SP2U2,3		4	7		
5	26	SP6U2,3		5	7		
6	23	SP3U2,3		6	6		
7	27	SP8U2,3		7			
8	31	SP4U2,3		8			
9	25	SP9		9			
10	22	SP10		10			
11	22	SP5U1/SP6U1		11			
12				12			

ANCILLARY INFORMATION

Power Meter (Kwh):	25135 kwh	Max. Temperature (°F):	97°F
Max. Humidity (%RH):	HIGH	Ventilation Fan(s):	(ON) / OFF
Surge Suppression:	(ON) / OFF	Controller Battery Voltage (volts):	N/A

TROUBLESHOOTING

Ozone Detector Fault:	YES / (NO)	16A Breaker Fault:	YES / (NO)
Panel GFI Fault:	YES / (NO)	Main Circuit Breaker Fault:	YES / (NO)
Controller Fault: ✓	YES / (NO)	Fasteners/Fittings: ✓	
Solenoid Malfunction: OK 1 2 3 4 5 6 7 8 9 10 11 12		Correct Controller Program: RE PROGRAM	(YES) / NO
Tubing: ✓		Wires: ✓	

MAINTENANCE

O_2 Concentrator Filter	(YES) / NO	Reset Temperature/Humidity	(YES) / NO
Compressor Filter	(YES) / NO	Check Peroxide Level N/A	YES / NO

STATION	RUN TIME				SPARGE POINT	WELL BOX OZONE CONC. (ppm)
	A	B	C	HOURS/DAY		
1	0	0	0			
2	5	5	5			
3	5	5	5			
4	5	5	5			
5	5	5	5			
6	5	5	5			
7	5	5	5			
8	5	5	5			
9	0	0	0			
10	0	0	0			
11	0	0	0			
12						
13						
TOTAL:						

START TIMES	A	B	C	REPAIRS
1	1200	800	1600	
2	120	920	1720	
3	240	1040	1840	
4	400	1200	2000	
5	520	1320	2120	
6	640	1440	2240	

MODIFICATIONS

PROGRAM CHANGE. SEASONAL SHORT CIRCUIT OF SP5U1, U2, U3 / SP 9 / SP10. TURNED OF RUN TIME TO THESE POINTS.

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

Project Name: Bulk Plant HPI / PFP
Project No.: 4629.03
Task: 413
Date: 12/28/2005
PM: CJW

Tech: BWN
Mobe/Demobe time: .25 / .25
Travel time: .5 / .5
Time on site: 1300
Time off site: 1400
Mileage: 40

SYSTEM READINGS

UNIT: C - Sparger # 5

Master Panel Runtime (Hrs): 2371.59
O_2 Concentrator Runtime (Hrs): 4177.57
System Clock Time: 1350 @ 1350

STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	24	SP5u2,3	
2	25	SP1u2,3	
3	24	SP7u2,3	
4	25	SP2u2,3	
5	25	SP6u2,3	
6	24	SP3u2,3	
7	26	SP8u2,3	
8	32	SP4u2,3	
9	25	SP9	
10	21	SP10	
11	21	SP5u1,6u1	
12		OPEN	

UNIT: Oxygen Concentrator # 5

Master Panel Runtime (Hrs): ——
O_2 Concentrator Runtime (Hrs): ——
System Clock Time: ——

STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	7	SP1u1	
2	6	SP2u1	
3	7	SP3u1	
4	7	SP4u1	
5	7	SP4u1	
6	7	SP7u1	
7			
8			
9			
10			
11			
12			

ANCILLARY INFORMATION

Power Meter (Kwh): 27754
Max. Humidity (%RH): HIGH
Surge Suppression: (ON) / OFF

Max. Temperature (°F): 89.2°F
Ventilation Fan(s): (ON) / OFF
Controller Battery Voltage (volts): N/A

TROUBLESHOOTING

Ozone Detector Fault: YES / (NO)
Panel GFI Fault: YES / (NO)
Controller Fault: YES / (NO)
Solenoid Malfunction: ✓ 1 2 3 4 5 6 7 8 9 10 11 12
Tubing: ✓

16A Breaker Fault: YES / (NO)
Main Circuit Breaker Fault: YES / (NO)
Fasteners/Fittings: ✓
Correct Controller Program: (YES) / NO
Wires: ✓

MAINTENANCE

O_2 Concentrator Filter: YES / NO
Compressor Filter: YES / NO

Reset Temperature/Humidity: YES / NO
Check Peroxide Level: YES / NO

STATION	RUN TIME			MIN ~~HOURS~~/DAY	SPARGE POINT	WELL BOX OZONE CONC. (ppm)
	A	B	C			
1	0	0	0	0	SP5u2,3	
2	5	5	5	90	SP1u2,3	
3	5	5	5	90	SP7u2,3	
4	5	5	5	90	SP2u2,3	
5	5	5	5	90	SP6u2,3	
6	5	5	5	90	SP3u2,3	
7	5	5	5	90	SP8u2,3	
8	5	5	5	90	SP4u2,3	
9	0	0	0	0	SP9	
10	0	0	0	0	SP10	
11	0	0	0	0	SP5u1,6u1	
12						
13						
TOTAL:	35	35	35	630		

START TIMES	A	B	C	REPAIRS
1	12:00	8:00	16:00	
2	1:20	9:20	17:20	
3	2:40	10:40	18:40	
4	4:00	12:00	20:00	
5	5:20	13:20	21:20	
6	6:40	14:40	22:40	

MODIFICATIONS

TURNED SYSTEM OFF. HIGH WATER EVENT. BUBBLES EVIDENT AT SURFACE OF MOST TRENCHES ONSITE. SITE TO BE SAMPLED TOMORROW.

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

Project Name: Bulk Plant HPI / PFP
Project No.: 4629.03
Task: 413
Date: 01/06/2006
PM: CJW

Tech: BWN
Mobe/Demobe time: .25/.25
Travel time: .5/.5
Time on site: 1300
Time off site: 1400
Mileage: 40

SYSTEM READINGS

UNIT: C - Sparger # 5				UNIT: Oxygen Concentrator # 5			
Master Panel Runtime (Hrs):	2371.84			Master Panel Runtime (Hrs):	—		
O_2 Concentrator Runtime (Hrs):	4177.65			O_2 Concentrator Runtime (Hrs):	BACK ON		
System Clock Time:	1321 @ 1322			System Clock Time:	OF SINCE 12/28		
STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)	STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	OFF	SP5u2,3		1	7	SP1u1	
2	21	SP1u2,3		2	6	SP2u1	
3	26	SP7u2,3		3	6	SP3u1	
4	26	SP2u2,3		4	6	SP4u1	
5	30	SP6u2,3		5	6	SP4u1	
6	24	SP3u2,3		6	6	SP7u1	
7	29	SP8u2,3		7			
8	25	SP4u2,3		8			
9	OFF	SP9		9			
10	OFF	SP10		10			
11	OFF	SP5u1,6u1		11			
12		OPEN		12			

ANCILLARY INFORMATION

Power Meter (Kwh):	27852	Max. Temperature (°F):	69.4°F
Max. Humidity (%RH):	HIGH	Ventilation Fan(s):	ON / OFF
Surge Suppression:	ON / OFF	Controller Battery Voltage (volts):	N/A

TROUBLESHOOTING

Ozone Detector Fault:	YES / NO	16A Breaker Fault:	YES / NO
Panel GFI Fault:	YES / NO	Main Circuit Breaker Fault:	YES / NO
Controller Fault:	YES / NO	Fasteners/Fittings:	✓
Solenoid Malfunction:	✓ 1 2 3 4 5 6 7 8 9 10 11 12	Correct Controller Program:	YES / NO
Tubing:	✓	Wires:	✓

MAINTENANCE

O_2 Concentrator Filter	YES / NO	Reset Temperature/Humidity	YES / NO
Compressor Filter	YES / NO	Check Peroxide Level	N/A YES / NO

STATION	RUN TIME				SPARGE POINT	WELL BOX OZONE CONC. (ppm)
	A	B	C	HOURS/DAY		
1	0	0	0	BLOWOUT 0	SP5u2,3	
2	5	5	5	OK 90	SP1u2,3	
3	5	5	5	90	SP7u2,3	
4	5	5	5	90	SP2u2,3	
5	5	5	5	90	SP6u2,3	
6	5	5	5	90	SP3u2,3	
7	5	5	5	90	SP8u2,3	
8	5	5	5	90	SP4u2,3	
9	0	0	0	BLOWOUT 0	SP9	
10	0	0	0	BLOWOUT 0	SP10	
11	0	0	0	BLOWOUT 0	SP5u1,6u1	
12						
13						
TOTAL:	35	35	35	630		

START TIMES	A	B	C
1	12:00	8:00	16:00
2	1:20	9:20	17:20
3	2:40	10:40	18:40
4	4:00	12:00	20:00
5	5:20	13:20	21:20
6	6:40	14:40	22:40

REPAIRS

TESTED POINTS / STATIONS 2-8 AT FULL RUNTIME FOR SHORT CIRCUITS. TEST OK.

MODIFICATIONS

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

Project Name: Bulk Plant HPI / PFP
Project No.: 4629.03
Task: 413
Date: 01/19/2006
PM: CJW

Tech: BWN
Mobe/Demobe time: .25/.25
Travel time: .5/.5
Time on site: 1200
Time off site: 1245
Mileage: 1/0

SYSTEM READINGS

UNIT: C - Sparger # 5

Master Panel Runtime (Hrs): 2475.74
O_2 Concentrator Runtime (Hrs): 4281.72
System Clock Time: 1205 @ 1205

STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	X	SP5u2,3	
2	24	SP1u2,3	
3	27	SP7u2,3	
4	24	SP2u2,3	
5	29	SP6u2,3	
6	26	SP3u2,3	
7	31	SP8u2,3	
8	24	SP4u2,3	
9	X	SP9	
10	X	SP10	
11	X	SP5u1,6u1	
12		OPEN	

UNIT: Oxygen Concentrator # 5

Master Panel Runtime (Hrs): —
O_2 Concentrator Runtime (Hrs): —
System Clock Time: —

STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	7	SP1u1	
2	6	SP2u1	
3	6	SP3u1	
4	6	SP4u1	
5	6	SP4u1	
6	6	SP7u1	
7			
8			
9			
10			
11			
12			

ANCILLARY INFORMATION

Power Meter (Kwh): 28962
Max. Temperature (°F): 78°F
Max. Humidity (%RH): 67%
Ventilation Fan(s): (ON) / OFF
Surge Suppression: ON / OFF
Controller Battery Voltage (volts): N/A

TROUBLESHOOTING

Ozone Detector Fault: (YES) / NO
16A Breaker Fault: YES / (NO)
Panel GFI Fault: YES / (NO)
Main Circuit Breaker Fault: YES / (NO)
Controller Fault: YES / (NO)
Fasteners/Fittings: ✓
Solenoid Malfunction: (OK) 1 2 3 4 5 6 7 8 9 10 11 12
Correct Controller Program: (YES) / NO
Tubing: ✓
Wires: ✓

MAINTENANCE

O_2 Concentrator Filter: (YES) / NO
Reset Temperature/Humidity: (YES) / NO
Compressor Filter: (YES) / NO
Check Peroxide Level: N/A YES / NO

STATION	RUN TIME				SPARGE POINT	WELL BOX OZONE CONC. (ppm)
	A	B	C	HOURS/DAY		
1	0	0	0	0	SP5u2,3	
2	5	5	5	90	SP1u2,3	
3	5	5	5	90	SP7u2,3	
4	5	5	5	90	SP2u2,3	
5	5	5	5	90	SP6u2,3	
6	5	5	5	90	SP3u2,3	
7	5	5	5	90	SP8u2,3	
8	5	5	5	90	SP4u2,3	
9	0	0	0	0	SP9	
10	0	0	0	0	SP10	
11	0	0	0	0	SP5u1,6u1	
12						
13						
TOTAL:	35	35	35	630		

START TIMES	A	B	C	REPAIRS
1	12:00	8:00	16:00	
2	1:20	9:20	17:20	
3	2:40	10:40	18:40	
4	4:00	12:00	20:00	
5	5:20	13:20	21:20	
6	6:40	14:40	22:40	

MODIFICATIONS