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

August 22, 2006

3888.02

Humboldt County Department of Health and Human Services
Division of Environmental Health
100 H Street, Suite 100
Eureka, California 95501

Attention: Mr. Mark Verhey, C.E.G.

Subject: Groundwater Monitoring Report, Second Quarter 2006
Blue Lake Market, 410 Railroad Avenue, Blue Lake, California
LOP No. 12229, CRWQCB Case No. 1THU229, USTCF Claim No. 11658

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) presents to the Humboldt County Division of Environmental Health (HCDEH) the results of groundwater monitoring for the second quarter of 2006 at 410 Railroad Avenue in Blue Lake, California. This report was prepared on behalf of Mr. Pat Folkins.

The following elements are included in this report:

- Introduction and site chronology
- Hydraulic gradient and hydrogeology
- Tabular summary and discussion of groundwater results
- Decay rates and monitoring and natural attenuation
- Recommendations and future work
- Location map, site map, and hydraulic gradient map

Please call if you have any questions or concerns.

Sincerely,
LACO ASSOCIATES

REGISTERED PROFESSIONAL ENGINEER
DAVID R. GERVAN
NO. C57282
Exp. 12/31/06
CIVIL
STATE OF CALIFORNIA

Caroline Levenda	Debra L. Leibensberger	Christopher J. Watt
Staff Geologist	Project Manager	C.E.G. 241[illegible]

CJL:jg

Attachments

cc: Pat Folkins, Blue Lake Market

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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, SECOND QUARTER 2006

Blue Lake Market, 410 Railroad Avenue, Blue Lake, California
LOP No. 12229, CRWQCB Case No. 1THU229, USTCF Claim No. 11658
LACO Project No. 3888.02

INTRODUCTION

This report presents the cumulative results of groundwater monitoring conducted at the Blue Lake Market (the site) for the second quarter of 2006. Field activities associated with the second quarter monitoring event were performed on June 8 and 9, 2006. Monitoring wells MW1, MW2, and MW4 through MW6 were sampled on June 9, 2006. On June 8, 2006, SHN Consulting Engineers and Geologists (SHN) of Eureka, California, conducted the quarterly sampling event at the Blue Lake Belting and Leather Works site (BLBLW), located immediately up-gradient of the Blue Lake Market site. Please refer below to Table A for the current groundwater monitoring regime. Monitoring well sampling protocol is included in LACO's *Standard Operating Procedures,* on file at your office. A location and site map are provided as Figures 1 and 2, respectively. Groundwater monitoring data and laboratory analytical results from the concurrent sampling with the Blue Lake Market monitoring wells at BLBLW was provided by SHN and is included as Attachment 1. A key to abbreviation is included at Attachment 2.

Table A: Field Sampling Details for June 9, 2006

MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ORGANIC ANALYTICALS	SAMPLING SCHEDULE
MW1	5-15	6.53	DHP	ORP, DO	TPHg, BTEX, MTBE	Quarterly
MW2	4-14	7.85				
MW3*	5-15	8.25	DTW Only			
MW4	10-15	7.56	DHP	ORP, DO	TPHg, BTEX, MTBE	
MW5	10-15	6.61				
MW6	5-15	9.06				

* Sampled by SHN on June 8, 2006.

SITE CHRONOLOGY

- **1990:** One 550-gallon underground storage tank (UST) was removed from the site.
- **December 1994:** Three monitoring wells (MW1 through MW3) and five temporary borings (B1 through B5) were installed.

- **1994 to present:** Groundwater monitoring was conducted.
- **July 2001:** Five temporary soil borings (B6 through B10) were installed.
- **September 2005:** Four temporary borings (B11 through B14) and two monitoring wells (MW4 and MW5) were installed.
- **March 2006:** Two temporary borings (B15 and B16) and one monitoring well (MW6) were installed.

HYDRAULIC GRADIENT AND HYDROGEOLOGY

Groundwater at the site is generally found between approximately 4 and 14 feet below ground surface (bgs). Site stratigraphy has been characterized by the presence of interbedded silty sands and silty gravels. Observed lithology is typical of fluvial and over-bank floodplain deposits. Powers Creek is located approximately 130 feet south-southeast of the former USTs, and Mad River is located approximately 2,000 feet south of the site. The local hydraulic gradient has historically been in the southern direction of groundwater flow towards Powers Creek and Mad River.

The hydraulic gradient for this monitoring event was calculated by the three-point method using monitoring wells MW1, MW2, and MW3, which are typically used to calculate the gradient at the site (Table 1). The potentiometric surface was generated using the hydraulic heads of the LACO and SHN monitoring wells and is presented in Figure 3 with the calculated gradient. Current and historical hydraulic head data are presented in Table 1, and current and historical hydraulic gradients are presented in Table 2. A copy of the field sampling data sheets for SHN and LACO monitoring wells are included as Attachments 1 and 3 respectively.

<u>Hydraulic gradient for June 9, 2006</u>

S14°W with a slope of 0.01 foot per foot

While the calculated hydraulic gradient for June 9, 2006, is consistent with historical gradient data, the distribution of petroleum hydrocarbons across both sites suggests the dominant hydraulic gradient is in a more southerly direction (LACO, 2005).

LABORATORY RESULTS

Laboratory analytical results from the second quarter sampling event are presented below in Table B. Current and historical groundwater analytical data for the Blue Lake Market site and the

BLBLW site are included in Table 1, copies of the field data sheets are presented as Attachment 3, and copies of the laboratory analytical reports for this reporting period are included as Attachment 4. Table 3 includes historical intrinsic parameters. Comments from the laboratory case narrative indicate that the total petroleum hydrocarbons as gasoline (TPHg) pattern seen in monitoring wells MW1, MW2, MW4, and MW5 suggests a weathered and degraded gasoline plume.

Table B: Analytical Results for June 9, 2006

Monitoring Well ID	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW1	3,200	40	19	9.4	11.6	ND<60
MW2	830	1.2	7.4	3.8	6.7	ND<3.0
MW3	Not Sampled					
MW4	9,500	150	94	450	918	ND<200
MW5	12,000	280	140	760	1,050	ND<300
MW6	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0

DECAY RATES AND MONITORED NATURAL ATTENUATION DISCUSSION

In order to determine the predicted time to water quality objectives (WQOs) through natural attenuation, charts depicting analytical data from quarterly groundwater monitoring events over time were created using groundwater analytical data reported for samples collected from monitoring wells MW1, MW2, and MW3 (Charts 1 through 5, respectively). Concentrations in µg/L were plotted on a log scale versus the cumulative number of years since sampling was initiated. Best fit trend lines and trend line equations were generated using Excel software. The slope of the best fit trend line represents the first-order decay rate constant for the particular constituent. The first order decay rate constants resulting from the regression analysis are presented below in Table C. Predicted WQO achievement dates were calculated using the first order decay rate equation:

Time = -LN (Final concentration / Initial concentration) / decay rate constant

The WQO of each constituent of concern is used in the decay rate equation in place of the final concentration. The initial concentration is the y-intercept of the trend line displayed on Charts 1 through 5. The decay rate constant is the exponential value of the equation of the trend line. The times to reach the WQO through natural attenuation for TPHg; methyl tertiary butyl ether

(MTBE); and benzene, toluene, ethylbenzene, and total xylenes (BTEX) are reported in years on Charts 1 through 5 and included below in Table C. Overall, based on site-specific decay rates, WQOs for constituents at each well appear to be in excess of 20 years. Decay rates were not calculated for monitoring wells MW4 and MW5 due to increasing groundwater concentration trends.

Table C: Decay Rates and Predicted Time to Reach Water Quality Objectives

Monitoring Well ID / Constituent	Water Quality Objective (ug/L)	Y-interecept	Decay Rate Exponent (from trendline)	Approximate Time to Reach Water Quality Objective since current sampling event (years)
MW1				
TPHg	50	2,996	-0.1253	21
Benzene	1	318	-0.2971	11
MW2				
TPHg	50	8,831	-0.147	24
Benzene	1	16	-0.147	7
Toluene	42	209	-0.0008	WQO Already Reached
Ethylbenzene	29	252	-0.0005	<1
Total Xylenes	42	2260	-0.0008	2.2
MW3				
TPHg	50	11,103	-0.046	105
Benzene	1	99	-0.053	66
Toluene	42	299.84	-0.0001	42
Ethylbenzene	29	196.2257	-0.0001	41
Total Xylenes	42	937.59	-0.0002	31

*Decay rates could not be calculated at monitoring wells MW4 and MW5 due to insufficient amount of data to develop a trend.

Based on decay rates noted in Table C, TPHg and benzene concentrations are attenuating. However, TPHg decay at monitoring wells MW1 through MW3 are attenuating at rates where concentrations may not reach the WQO for over 20 years, and benzene decay at monitoring well MW3 indicates that the WQO may not be reached for 66 years. Toluene, ethylbenzene, and total xylenes trends at monitoring well MW3 also indicate that their respective WQOs may not be reached for 31 to 42 years (Table C). Decay rate analysis in monitoring wells MW1 through MW3 and increasing concentrations in monitoring wells MW4 and MW5 continue to support the need for active remediation at this site.

RESPONSE TO HCDEH COMMENTS FROM LETTER CORRESPONDENCE DATED JUNE 29, 2006

HCDEH Comment: *We observed a discrepancy between the LACO report and the SHN report of*

the groundwater elevations. The depth to water is similar between the two data sets, but the relative elevations are different. Please coordinate with SHN to resolve this issue.
LACO Response: In a phone conversation and email correspondence between LACO and SHN on July 5, 2006, LACO and SHN have coordinated the same survey data be used for both sites' monitoring wells.

HCDEH Comment: *We observed there is no figure showing the hydraulic gradient across your site. There is a statement on page 2 of the subject report stating MW1, MW2, and MW3 "were not used to calculate the gradient during this quarter because hydraulic head data were not collected on the same day for those three wells (Table 1)." We observed on Table 1, groundwater elevation was measured on March 30 for those three wells. Please submit a figure showing the groundwater elevation across the subject site. Table 1 and Figure 3 record different groundwater elevations for MW3. Please correct this.*
LACO Response: A new figure, Figure 4, illustrating the gradient, using monitoring wells MW1, MW2, and MW3, and isocontours are included in Attachment 5. The corrected groundwater elevation at monitoring well MW3 is illustrated in Figure 4 (Attachment 5).

CONCLUSIONS, RECOMMENDATIONS, AND FUTURE WORK

- Overall, groundwater parameters, including laboratory analytical results, groundwater elevations, and hydraulic gradient, are consistent with that of previous monitoring events.
- LACO submitted a Report of Findings on July 18, 2006, for field work conducted in March 2006, and is awaiting comments from the HCDEH.
- LACO recommends a limited Feasibility Study (FS) and Corrective Action Plan (CAP) to evaluate remedial options and determine appropriate and effective remediation techniques. The FS and CAP will also include an updated site conceptual model. A figure illustrating LACO's interpretation of the limits of petroleum hydrocarbon impact will be submitted with the FS and CAP.
- The next quarterly groundwater monitoring event is scheduled for September 2006.
- Laboratory results from up-gradient BLBLW monitoring wells appear to be consistent within the range of results reported for historical monitoring events during periods of similar hydrologic conditions; however, TPHg concentrations decreased slightly in monitoring wells MW103 and MW105. Decreased concentrations may indicate plume migration in the groundwater flow direction to the south where the subject site is located.
- At this time, the southern extents of the Blue Lake Market site's groundwater plume and

the BLBLW site's groundwater plumes appear not to be defined. Therefore, further investigation may be necessary downgradient of boring B7 in the parking lot next to the old railroad bed, and between borings B9 and B11 to differentiate between the two plumes.

REFERENCES

LACO, 2005, *Report of Findings: Boring and Monitoring Well Installation*; Blue Lake Market, 410 Railroad Avenue, Blue Lake California. LOP No. 12229; LACO No. 3888.02. November 28, 2005. 13 pages plus Attachments.

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. It is known that subsurface conditions may change with time and under anthropologic influences. 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

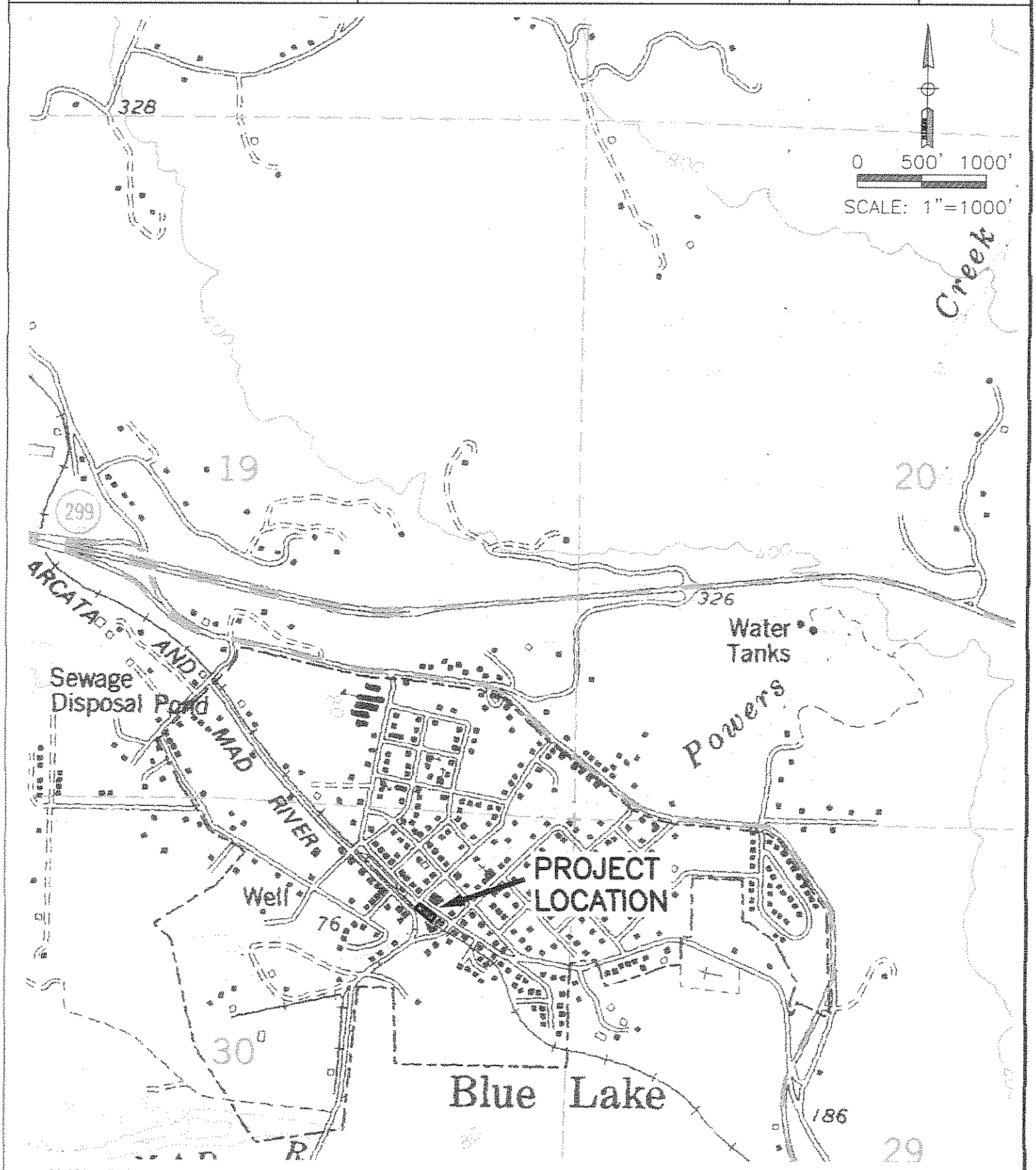
Figure 1: Location Map
Figure 2: Site Map
Figure 3: Hydraulic Gradient Map (6/08/06 and 6/09/06)

Table 1: Monitoring Well Data and Groundwater Analytical Results
Table 2: Historic Hydraulic Gradient Data
Table 3: Historical Intrinsic Parameters

Chart 1: TPHg and Benzene Groundwater Concentrations in Monitoring Well MW1
Chart 2: TPHg and Benzene Groundwater Concentrations in Monitoring Well MW2
Chart 3: TPHg and Benzene Groundwater Concentrations in Monitoring Well MW3
Chart 4: Toluene, Ethylbenzene, and Total Xylenes Concentrations in MW2
Chart 5: Toluene, Ethylbenzene, and Total Xylenes Concentrations in MW3

Attachment 1: SHN Field Data Sheets and Laboratory Report
Attachment 2: Key to Abbreviations
Attachment 3: Groundwater Sampling Field Data Sheets
Attachment 4: Laboratory Analytical Report
Attachment 5: Hydraulic Gradient Map (3/30/06), Figure 4.

LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY RJM	FIGURE 1
	CLIENT PAT FOLKINS	DATE 7/14/06	
	LOCATION BLUE LAKE MARKET	CHECK	JOB NO. 3888.02
	LOCATION MAP	SCALE 1"=1000'	



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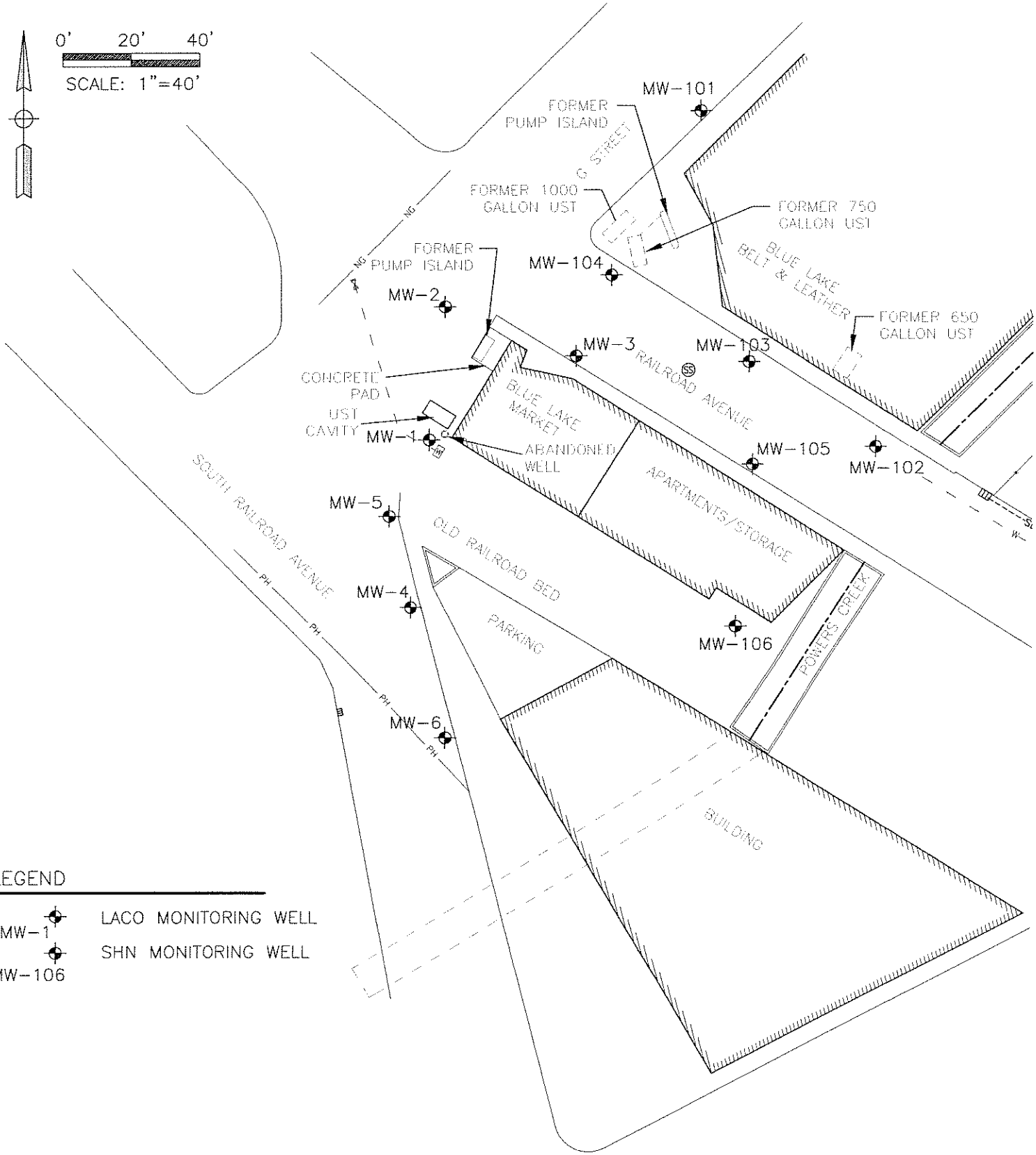
LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY RJM	FIGURE 2
	CLIENT PAT FOLKINS	DATE 7/14/06	
	LOCATION BLUE LAKE MARKET	CHECK	JOB NO. 3888.02
	SITE MAP	SCALE 1"=40'	



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LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY RJM	FIGURE 3
	CLIENT PAT FOLKINS	DATE 8/08/06	
	LOCATION BLUE LAKE MARKET	CHECK	JOB NO. 3888.02
	HYDRAULIC GRADIENT MAP (6/08/06 & 6/09/06)	SCALE 1"=40'	

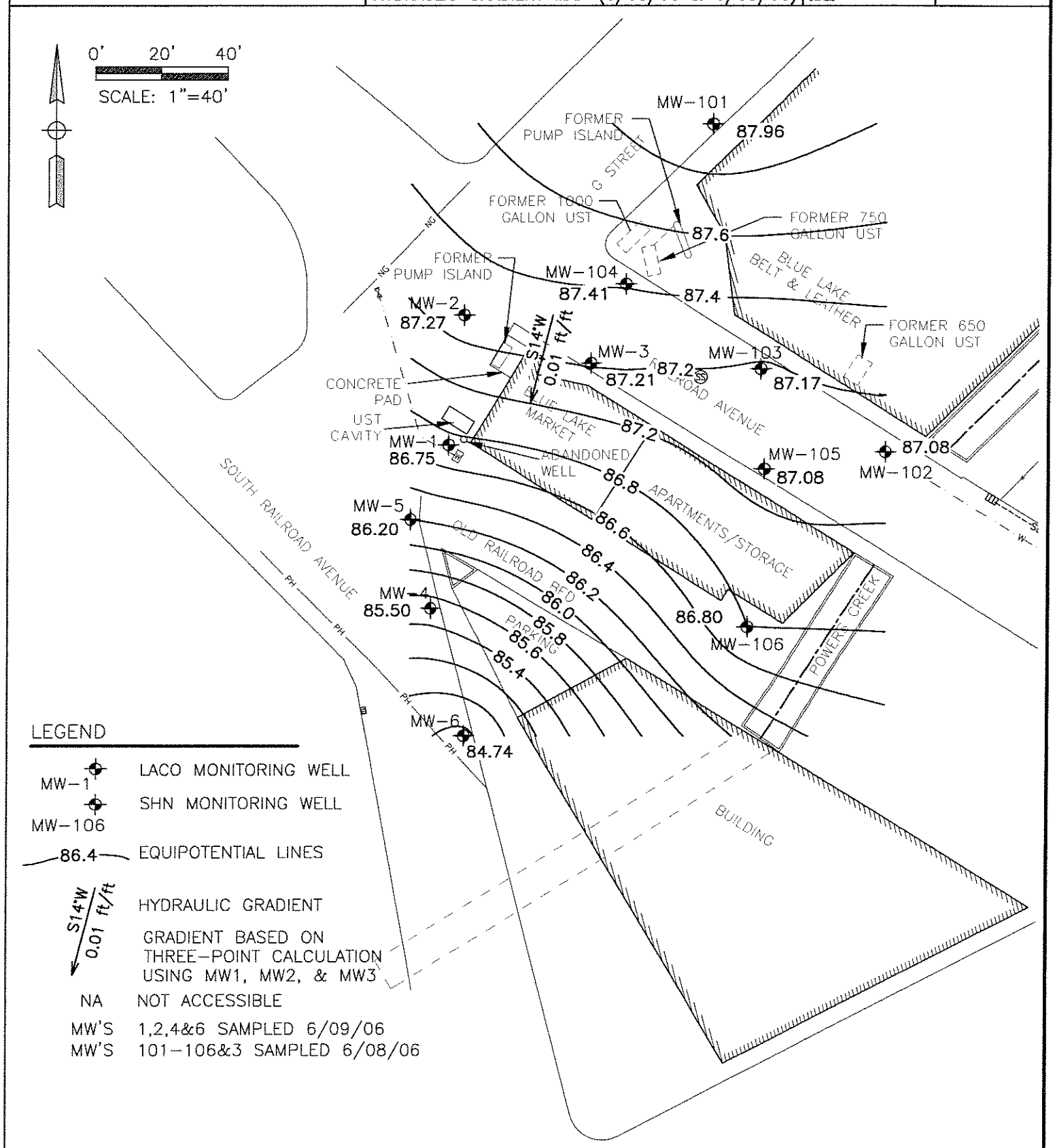

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TABLE 1: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet bgs)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1	(SCREENED 5-15 FEET BGS)								
12/29/1994	93.28	88.27	5.01	---	---	---	---	---	---
1/12/1995		89.18	4.10	2,000	53	16	42	49	---
2/27/1995		87.05	6.23	---	---	---	---	---	---
3/22/1995		86.80	6.48	---	---	---	---	---	---
4/12/1995		87.42	5.86	1,100	40	25	49	59	---
5/8/1995		86.94	6.34	---	---	---	---	---	---
6/6/1995		86.43	6.85	---	---	---	---	---	---
8/11/1995		82.82	10.46	---	---	---	---	---	---
10/31/1995		81.13	12.15	4,100	280	37	63	46	---
12/14/1995		88.52	4.76	---	---	---	---	---	---
1/15/1996		88.80	4.48	---	---	---	---	---	---
4/5/1996		87.62	5.66	4,200	180	180	230	370	ND <100
8/2/1996		82.37	10.91	---	---	---	---	---	---
5/2/1997		87.22	6.06	3,900	170	50	120	105	ND <100
8/15/1997		82.03	11.25	4,700	610	75	88	81	ND <100
5/13/1998		86.54	6.74	810	25	5	33	16	ND <25
5/14/1999		86.64	6.64	2,400	220	38	96	57	97
8/10/1999		82.28	11.00	6,800	850	110	470	298	ND <200
12/2/1999		88.23	5.05	320	41	4.2	15	4.9	ND<40
3/1/2000		88.17	5.11	5,200	270	28	45	36	ND <80
6/1/2000		86.64	6.64	5,300	330	85	250	183	ND <200
9/13/2000		81.14	12.14	4,600	690	37	110	25	ND <140
12/1/2000		82.00	7.45	7,900	410	53	210	79	ND<200
3/1/2001		83.05	6.40	970	88	12	41	20	ND<50
6/4/2001		80.39	9.06	3,700	210	17	160	49	ND<1.3
9/7/2001		77.35	12.10	3,100	690	30	53	37	ND<1.0
12/3/2001		84.96	4.49	71	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
3/13/2002		84.52	4.93	420	11	ND<5.0	5.4	3.8	ND<27
6/5/2002		81.00	8.45	2,400	63	32	49	39	ND<70
	93.28			Monitoring well top of casings resurveyed 7/29/02					
9/3/2002		81.27	12.01	3,800	210	ND<70	29	ND<25	ND<110
1/2/2003		88.72	4.56	400	ND<2.0	ND<4.0	ND<2.0	ND<0.50	ND<10
3/3/2003		---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
6/2/2003		86.63	6.65	1,300	43	ND<30	29	9.6	ND<30
9/11/2003		81.80	11.48	1,400	69	ND<14	ND<15	ND<8.0	ND<50
12/1/2003		87.74	5.54	1,500	38	ND<20	19	14	ND<80

TABLE 1: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet bgs)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1 (continued)									
3/3/2004		87.60	5.68	160	ND<0.50	ND<0.50	0.54	ND<0.50	ND<1.0
6/9/2004		84.78	8.50	1,500	21	ND<28	33	11	ND<60
9/2/2004		81.55	11.73	1,000	37	ND<18	ND<5.0	ND<3.0	ND<40
12/1/2004		86.70	6.58	330	4.9	ND<4.0	1.7	0.91	ND<14
3/1/2005		87.32	5.96	990	ND<10	ND<15	ND<15	ND<7.0	ND<35
6/1/2005		86.81	6.47	2,600	27	ND<30	18	10	ND<80
9/1/2005		82.37	10.91	1,700	24	ND<25	ND<10	ND<10	ND<60
12/1/2005		89.67	3.61	1,300	9.1	ND<15	3.4	2.4	ND<50
3/30/2006		87.38	5.90	1,900	9.3	1.6	4.1	3.8	ND<1.0
6/9/2006		86.75	6.53	3,200	40	19	9.4	11.6	ND<60
MW-2	(SCREENED 4-14 FEET BGS)								
12/29/1994	95.12	88.99	6.13	---	---	---	---	---	---
1/12/1995		90.04	5.08	10,000	14	290	250	1,670	---
2/27/1995		87.62	7.50	---	---	---	---	---	---
3/22/1995		87.54	7.58	---	---	---	---	---	---
4/12/1995		88.12	7.00	1,400	1.0	36	24	310	---
5/8/1995		87.67	7.45	---	---	---	---	---	---
6/6/1995		87.18	7.94	---	---	---	---	---	---
8/11/1995		83.56	11.56	---	---	---	---	---	---
10/31/1995		82.24	12.88	---	---	---	---	---	---
12/14/1995		89.17	5.95	---	---	---	---	---	---
1/15/1996		89.14	5.98	---	---	---	---	---	---
4/5/1996		88.30	6.82	5,500	7.3	85	92	720	ND <5.0
8/2/1996		83.07	12.05	---	---	---	---	---	---
5/2/1997		87.85	7.27	5,800	12	95	170	860	ND <50
8/15/1997		82.30	12.82	---	---	---	---	---	---
5/13/1998		87.24	7.88	3,700	5.8	28	100	510	ND <25
5/14/1999		87.31	7.81	9,800	21	210	380	1,910	13
8/10/1999		82.58	12.54	2,400	15	40	67	306	ND <25
12/2/1999		88.92	6.20	14,000	33	110	560	2,290	ND<50
3/1/2000		88.69	6.43	7,000	8.6	86	160	820	ND<30
6/1/2000		87.30	7.82	12,000	19	200	290	1,630	ND<30
9/13/2000		82.31	12.81	---	---	---	---	---	---
12/1/2000		85.23	6.04	9,800	19	120	220	1,010	ND<30
3/1/2001		83.73	7.54	3,000	9	43	100	502	ND<30
6/4/2001		81.22	10.05	2,300	5	8.4	35	229.3	ND<1.3
9/7/2001		78.42	12.85	---	---	---	---	---	---
12/3/2001		85.48	5.79	4,700	7.3	43	110	650	ND<1.0

TABLE 1: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet bgs)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-2 (continued)									
3/13/2002		84.83	6.44	15,000	29	290	640	2,600	ND<70
6/5/2002		81.95	9.32	3,400	9.8	21	87	253	ND<11
	95.12			Monitoring well top of casings resurveyed 7/29/02					
9/3/2002		82.22	12.90	Insufficient water in the well to obtain a sample					
1/2/2003		89.34	5.78	12,000	ND<25	97	470	1,910	ND<150
3/3/2003		87.75	7.37	270	ND<0.50	ND<5.5	2.4	12.3	ND<3.0
6/2/2003			7.81	860	0.76	6.6	28.0	75.0	ND<3.0
9/11/2003		82.46	12.66	3,900	28	53	190	468	ND<35
12/1/2003		88.01	7.11	6,700	14	62	330	1,130	ND<30
3/3/2004		88.17	6.95	2,200	1.2	2.4	50	161	ND<1.0
6/9/2004		85.69	9.43	970	ND<3.0	ND<10	22	58	ND<3.0
9/2/2004		81.31	13.81	2,600	16	26	92	258	ND<30
12/1/2004		87.24	7.88	2,200	5	15	110	291	ND<30
3/1/2005		87.79	7.33	1,100	ND<2.0	10	19	55.9	ND<3.0
6/1/2005		87.50	7.62	970	1.1	ND<15	9.0	21.1	ND<3.0
9/1/2005		82.79	12.33	3,200	19	57	130	410	ND<30
12/1/2005		90.21	4.91	1,500	ND<5.0	6.9	63	167	ND<30
3/30/2006		87.93	7.19	1,200	0.69	ND<0.50	8.0	17	ND<1.0
6/9/2006		87.27	7.85	830	1.2	7.4	3.8	6.7	ND<3.0
MW-3	(SCREENED 5-15 FEET BGS)								
12/29/1994	95.46	88.51	6.95	---	---	---	---	---	---
1/12/1995		89.23	6.23	21,000	130	590	170	770	---
2/27/1995		88.48	6.98	---	---	---	---	---	---
3/22/1995		88.38	7.08	---	---	---	---	---	---
4/12/1995		87.83	7.63	14,000	130	430	360	2,080	---
5/8/1995		87.46	8.00	---	---	---	---	---	---
6/6/1995		86.94	8.52	---	---	---	---	---	---
8/11/1995		83.03	12.43	---	---	---	---	---	---
10/31/1995		81.44	14.02	---	---	---	---	---	---
12/14/1995		88.74	6.72	---	---	---	---	---	---
1/15/1996		88.94	6.52	---	---	---	---	---	---
4/5/1996		88.16	7.30	11,000	120	330	260	980	ND <500
8/2/1996		82.58	12.88	---	---	---	---	---	---
5/2/1997		87.49	7.97	7,600	46	110	79	459	ND <100
8/15/1997		82.03	13.43	7,600	160	440	160	630	ND <100
5/13/1998		87.01	8.45	9,100	76	280	280	1,390	ND <500
5/14/1999		87.10	8.36	5,200	74	160	180	640	140
8/10/1999		82.27	13.19	14,000	130	310	130	510	ND <200

TABLE 1: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet bgs)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-3 (continued)									
12/2/1999		88.17	7.29	6,400	87	340	200	810	ND <300
12/2/1999		Duplicate		5,200	80	260	210	710	ND <400
3/1/2000		88.21	7.25	7,200	64	390	180	730	ND <150
6/1/2000		87.10	8.36	7,100	73	330	170	630	ND <140
9/13/2000		81.53	13.93	---	---	---	---	---	---
12/1/2000		83.54	8.07	13,000	79	290	230	720	ND<150
3/1/2001		83.43	8.18	8,500	78	330	200	680	ND<150
6/4/2001		80.70	10.91	4,800	14	14	68	103.4	ND<0.5
9/7/2001		77.41	14.20	---	---	---	---	---	---
12/3/2001		84.83	6.78	9,900	24	52	210	454	ND<1.0
3/13/2002		84.28	7.33	---	---	---	---	---	---
6/5/2002		81.38	10.23	8,100	28	ND<140	69	147	ND<250
	95.46			Monitoring well top of casings resurveyed 7/29/02					
9/3/2002		81.58	13.88	Insufficient water in the well to obtain a sample					
1/2/2003		88.51	6.95	23,000	390	2,700	810	4,000	ND<150
3/3/2003		87.51	7.95	7,500	32	ND<180	62	415	ND<200
6/2/2003		87.04	8.42	5,600	36	ND<110	86	180	ND<170
9/11/2003		82.05	13.41	9,900	230	210	120	680	ND<270
12/1/2003		87.63	7.83	10,000	77	120	200	594	ND<400
3/3/2004		87.85	7.61	4,500	7.5	12	48	206	ND<1.0
6/9/2004		85.07	10.39	4,800	ND<50	ND<100	55	89	ND<120
9/2/2004		81.78	13.68	4,500	59	50	73	109	ND<140
12/1/2004		87.07	8.39	7,500	120	340	180	554	ND<300
3/1/2005		87.62	7.84	11,000	160	690	370	1,010	---
6/1/2005		87.37	8.09	Not sampled					
6/1/2005 *		87.39	8.07	10,000	120	480	340	820	---
9/1/2005		82.54	12.92	Not sampled					
9/1/2005 *		82.54	12.92	6,700	68	160	110	208	---
12/1/2005		---	---	Inaccessible					
12/5/2005*		88.15	7.31	14,000	180	1,600	480	1,900	---
3/16/2006*		88.25	7.21	6,500	49	250	140	480	---
3/30/2006		87.81	7.65	Not sampled					
6/8/2006*		87.19	8.27	6,200	50	130	140	377	---
6/9/2006		87.21	8.25	Not sampled					
MW-4	(SCREENED 10-15 FEET BGS)								
12/1/2005	93.06	---	Dry	Insufficient water in the well to obtain a sample					
3/30/2006		86.13	6.93	1,300	19	4.5	50	63	ND<1.0
6/9/2006		85.50	7.56	9,500	150	94	450	918	ND<200

TABLE 1: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet bgs)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-5	(SCREENED 10-15 FEET BGS)								
12/1/2005	92.81	89.00	3.81	**1,400**	**27**	**12**	**42**	**24**	ND<25
3/30/2006		86.74	6.07	**3,700**	**110**	**22**	**97**	**154**	ND<1.0
6/9/2006		86.20	6.61	**12,000**	**280**	**140**	**760**	**1,050**	ND<300
MW-6	(SCREENED 5-15 FEET BGS)								
4/4/2006	93.80	85.76	8.04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
6/9/2006		84.74	9.06	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
MW-101*	(SCREENED 5-15 FEET BGS)								
3/1/2001	96.10	88.51	7.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
6/4/2001		86.40	9.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
9/4/2001		82.46	13.64	---	---	---	---	---	---
12/3/2001		90.26	5.84	**160**	ND<0.5	ND<4.0	ND<0.5	ND<0.5	ND<3.0
3/1/2002		88.92	7.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
6/5/2002		86.97	9.13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
		96.10		Monitoring well top of casings resurveyed 7/29/02					
9/3/2002		82.44	13.66	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
12/2/2002		82.94	13.16	**64**	ND<0.5	ND<2.8	ND<0.5	ND<0.5	ND<3.0
3/3/2003		88.72	7.38	ND<50	ND<0.5	ND<2.8	ND<0.5	ND<0.5	ND<3.0
6/2/2003		88.29	7.81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
9/11/2003		---	---	—	---	---	---	---	---
12/1/2003		88.79	7.31	**50**	ND<0.50	ND<1.4	ND<0.50	ND<0.50	---
3/3/2004		89.50	6.60	ND<50	ND<0.50	ND<1.4	ND<0.50	ND<0.50	---
6/1/2004		88.16	7.94	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
9/2/2004		82.70	13.40	**90**	ND<0.50	ND<3.0	ND<0.50	ND<0.50	---
12/1/2004		88.14	7.96	No sample collected					
3/1/2005		88.30	7.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
6/1/2005		88.09	8.01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
9/1/2005		---	DRY	No sample collected					
12/5/2005		89.05	7.05	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
3/16/2006		89.12	6.98	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
6/8/2006		87.96	8.14	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0

TABLE 1: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet bgs)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-102*	(SCREENED 5-20 FEET BGS)								
3/1/2001	95.02	87.10	7.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
6/4/2001		84.59	10.43	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
9/4/2001		81.34	13.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
12/3/2001		88.19	6.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
3/1/2002		87.46	7.56	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
6/5/2002		85.15	9.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
		95.02		Monitoring well top of casings resurveyed 7/29/02					
9/3/2002		81.29	13.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
12/2/2002		81.81	13.21	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
3/3/2003		87.40	7.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
6/2/2003		87.00	8.02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
9/11/2003		---	---	---	---	---	---	---	---
12/1/2003		87.37	7.65	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
3/3/2004		87.79	7.23	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
6/1/2004		86.73	8.29	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
9/2/2004		81.59	13.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
12/1/2004		87.00	8.02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
3/1/2005		87.36	7.66	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
6/1/2005		87.22	7.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
9/1/2005		82.15	12.87	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
12/5/2005		87.79	7.23	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
3/16/2006		87.95	7.07	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
6/8/2006		87.08	7.94	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
MW-103*	(SCREENED 6-19 FEET BGS)								
3/1/2001	95.40	87.19	8.21	**2,900**	**27**	**37**	**35**	**63**	ND<60
6/4/2001		84.69	10.71	**3,200**	**42**	ND<80	**16**	**30.4**	ND<30
9/4/2001		81.41	13.99	**1,300**	**18**	ND<40	**8**	**5.4**	ND<32
12/3/2001		88.41	6.99	**5,700**	**150**	**160**	**95**	**219**	ND<150
3/1/2002		87.51	7.89	**5,700**	**100**	**170**	**83**	**380**	ND<150
6/5/2002		85.19	10.21	**3,900**	**25**	ND<110	**35**	**50**	ND<80
				Monitoring well top of casings resurveyed 7/29/02					
9/3/2002		81.34	14.06	**1,600**	**21**	ND<35	**11**	**7.0**	ND<30
12/2/2002		81.90	13.50	**5,700**	**280**	**110**	**190**	**336**	ND<120
3/3/2003		87.43	7.97	**4,400**	**47**	ND<200	**74**	**229**	---
6/2/2003		87.02	8.38	**2,400**	**14**	ND<70	**15**	**17.3**	ND<30
9/11/2003		---	---	---	---	---	---	---	---
12/1/2003		87.47	7.93	**3,500**	**49**	ND<90	**48**	**58.6**	---
3/3/2004		87.86	7.54	**5,800**	**100**	**160**	**130**	**343**	---
6/1/2004		86.80	8.60	**2,100**	**15**	ND<110	**32**	**40**	---

TABLE 1: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet bgs)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-103* (continued)									
9/2/2004		81.67	13.73	1,800	36	18	24	28.8	---
12/1/2004		87.08	8.32	2,400	42	40	41	47.4	---
3/1/2005		87.49	7.91	3,700	58	82	67	125	---
6/1/2005		87.31	8.09	2,700	33	47	46	79	---
9/1/2005		82.28	13.12	7,400	130	110	230	446	---
12/5/2005		87.96	7.44	3,900	70	81	87	156	---
3/16/2006		88.09	7.31	2,600	23	26	36	30	ND<3.0
6/8/2006		87.17	8.23	920	7.1	ND<40	11	5.4	ND<9.0
MW-104*	(SCREENED 5-17 FEET BGS)								
6/4/2001	95.31	85.37	9.94	17,000	260	320	40	1,510	ND<300
9/4/2001		81.64	13.67	9,800	120	ND<200	330	546	ND<400
12/3/2001		89.16	6.15	33,000	870	520	1,600	4,650	ND<900
3/1/2002		87.96	7.35	20,000	400	450	930	2,480	ND<650
6/5/2002		85.91	9.40	21,000	370	880	890	2,610	ND<600
				Monitoring well top of casings resurveyed 7/29/02					
9/3/2002		81.51	13.80	7,400	100	ND<200	270	361	ND<150
12/2/2002		82.30	13.01	13,000	260	210	630	1,191	ND<320
3/3/2003		87.80	7.51	20,000	430	560	950	2,330	---
6/2/2003		87.38	7.93	26,000	540	1,100	1,300	3,630	ND<600
9/11/2003		---	---	---	---	---	---	---	---
12/1/2003		87.95	7.36	25,000	760	520	1,300	2,700	---
3/3/2004		88.55	6.76	21,000	400	460	1,000	2,010	---
6/1/2004		87.26	8.05	26,000	500	680	1,200	2,420	---
9/2/2004		82.02	13.29	3,700	55	49	140	168	---
12/1/2004		87.30	8.01	16,000	430	480	990	2,090	---
3/1/2005		87.80	7.51	17,000	200	350	590	1,280	---
6/1/2005		87.59	7.72	13,000	130	230	490	1,010	---
9/1/2005		82.63	12.68	8,300	63	88	270	519	---
12/5/2005		88.52	6.79	10,000	59	100	580	553	---
3/16/2006		88.51	6.80	7,400	43	75	130	267	ND<160
6/7/2006		87.41	7.90	7,400	45	72	150	298	ND<180
MW-105*	(SCREENED 5-15 FEET BGS)								
6/4/2001	95.15	84.58	10.57	430	ND<0.5	ND<7.0	ND<1.2	ND<0.5	ND<3.0
9/4/2001		81.30	13.85	650	ND<4.0	ND<9.0	ND<1.5	ND<1.2	ND<13
12/3/2001		88.31	6.84	4,700	11	ND<40	18	9	ND<100
3/1/2002		87.46	7.69	260	1.7	ND<6.0	ND<0.50	ND<0.50	ND<6.0
6/5/2002		85.14	10.01	140	ND<0.50	ND<3.0	ND<0.50	ND<0.50	ND<3.0
9/3/2002		81.24	13.91	360	ND<0.50	ND<10	ND<1.0	ND<1.0	ND<3.0

TABLE 1: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet bgs)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-105* (continued)									
12/2/2002		81.76	13.39	680	6.0	ND<11	2.1	0.82	ND<13
3/3/2003		87.40	7.75	280	ND<1.5	ND<5.5	ND<1.0	ND<1.0	---
6/2/2003		86.98	8.17	210	ND<0.50	ND<5.5	ND<0.50	ND<0.50	ND<3.0
9/11/2003		---	---	---	---	---	---	---	---
12/1/2003		87.39	7.76	1,500	ND<5.0	ND<40	3.8	1.60	---
3/3/2004		87.80	7.35	390	ND<2.0	ND<17	0.93	0.53	---
6/1/2004		86.71	8.44	210	ND<0.50	ND<0.50	ND<0.50	ND<0.50	—
9/2/2004		81.54	13.61	210	ND<0.50	ND<9.0	ND<0.50	ND<0.50	---
12/1/2004		87.00	8.15	590	ND<2.0	ND<18	1.3	0.73	---
3/1/2005		87.39	7.76	680	ND<2.5	ND<30	ND<2.0	ND<1.5	---
6/1/2005		87.21	7.94	510	1.7	9.8	0.50	0.57	---
9/1/2005		82.10	13.05	470	8.2	ND<15	3.6	2.15	---
12/5/2005		87.84	7.31	2,600	7.2	ND<70	8.3	4.6	---
3/16/2006		87.98	7.17	1,800	3.5	ND<60	6.7	3.3	ND<15
6/8/2006		87.08	8.07	1,200	1.6	ND<50	1.6	1.6	ND<9.0
MW-106*	(SCREENED 5-15 FEET BGS)								
3/1/2001	92.71	86.80	5.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
6/4/2001		84.26	8.45	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
9/4/2001		80.79	11.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
12/3/2001		87.75	4.96	ND<50	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<3.0
3/1/2002		87.12	5.59	ND<50	0.74	ND<0.50	ND<0.50	ND<0.50	ND<3.0
6/5/2002		84.80	7.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
				Monitoring well top of casings resurveyed 7/29/02					
9/3/2002		80.72	11.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
12/2/2002		81.28	11.43	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
3/3/2003		87.07	5.64	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0
6/2/2003		86.67	6.04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
9/11/2003		---	---	---	---	---	---	---	---
12/1/2003		87.00	5.71	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
3/3/2004		87.47	5.24	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
6/1/2004		86.44	6.27	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
9/2/2004		81.06	11.65	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
12/1/2004		86.73	5.98	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
3/1/2005		87.09	5.62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
6/1/2005		86.92	5.79	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
9/1/2005		81.68	11.03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
12/5/2005		87.57	5.14	110	4.4	3.7	1.6	1.1	---
3/16/2006		87.66	5.05	ND<50	0.85	0.58	ND<0.50	ND<0.50	ND<3.0
6/8/2006		86.80	5.91	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0

TABLE 1: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet bgs)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
OBS-1	(SCREENED 5-10 FEET BGS)								
3/16/2006	89.45	82.49	6.96	---	---	---	---	---	---
6/8/2006		80.75	8.70	---	---	---	---	---	---
OBS-2	(SCREENED 5-10 FEET BGS)								
3/16/2006	91.29	83.78	7.51	---	---	---	---	---	---
6/8/2006		83.25	8.04	---	---	---	---	---	---

Reference NAVD 88. Elevations established 7/29/02 by R. Smith, LS using Caltrans HPGN monument "D CA 01 RB" North Arcata at Giuntoli & Hwy 101

* Hydraulic head data and laboratory analytical results are provided by SHN.

Bold indicates analyte detection

A key to abbreviations is provided as Attachment 2.

[1] The laboratory noted that the sample did not have typical pattern of fresh gasoline.
All gasoline results reported represent the amount of material in the gasoline range of molecular weights only.

[2] The laboratory noted that some reporting limits was raised due to matrix interference.

[3] The laboratory noted that some results were reported ND with a dilution due to matrix interference.

[4] The laboratory noted that the surrogate for the sample was above the upper acceptance limit due to matrix interference.

[5] The laboratory noted that the sample is similar to gasoline but certain peak ratios are not that of a fresh gasoline standard.
The reported results represent the amount of material in the gasoline range.

[6] The laboratory noted that the sample was diluted and the reporting limits were raised additionally due to matrix interference.

[7] The laboratory noted that the surrogate for the sample could not be quantified due to a large amount of early eluting material.

[8] The laboratory noted that the sample did not present a peak pattern consistent with that of gasoline.
The reported results represent the amount of meterial in the gasoline range.

[9] The laboratory noted that the surrogate for the sample was reported as not quantifiable (NQ) due to an auto-injector malfunction.

[10] The laboratory noted that the sample was initially analyzed within the 14 day holding time, and additional dilutions for some analtyes were required and were analyzed 1 day outside of the holding time.

[11] The laboratory noted that the sample includes the reported gasoline components in addition to other peaks in the gasoline range.

[12] The laboratory noted that the surrogate recoveries were below the lower acceptance limits for the sample. 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.

TABLE 2: HISTORICAL HYDRAULIC GRADIENT
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

Date	Flow Direction	Gradient Slope (foot/foot)
12/29/1994	SSE	0.02
1/12/1995	SSE	0.10
2/27/1995	SW	0.03
3/22/1995	SW	0.04
4/12/1995	S	0.02
5/8/1995	SSW	0.02
6/6/1995	SSW	0.02
8/11/1995	SSE	0.03
10/31/1995	SSE	0.04
12/14/1995	SSE	0.02
1/15/1996	SSE	0.01
4/5/1996	SSW	0.02
8/2/1996	SSE	0.02
5/2/1997	S	0.02
8/15/1997	S	0.01
5/13/1998	S	0.02
5/14/1999	SSW	0.02
8/10/1999	SSE	0.01
12/2/1999	SSW	0.02
3/1/2000	S	0.02
6/1/2000	SSW	0.02
9/14/2000	S	0.03
12/1/2000	SE	0.08
3/1/2001	SW	0.01
6/4/2001	SW	0.02
9/7/2001	SW	0.03
12/3/2001	S	0.02
3/13/2002	SW	0.02
6/5/2002	SW	0.02
9/3/2002	SE	0.03
1/2/2003	SE	0.02
3/3/2003	---	---
6/2/2003	S3E	0.02
9/11/2003	S14E	0.02
12/1/2003	S42E	0.01
12/1/2003	S22E	0.01
3/3/2004	S11E	0.01
6/9/2004	S17E	0.02
9/2/2004	N52W	0.01
12/1/2004	S2W	0.02
3/1/2005	S1E	0.01
6/1/2005	S12W	0.02
9/1/2005	S15E	0.01
12/5/2005	S62E	0.01
3/16/2006	S50E*	0.02
6/9/2006	S14W	0.01

Notes:

*Hydraulic gradient calculated using the three-point method and SHN monitoring wells MW103, MW104, and MW106

TABLE 3: HISTORICAL INTRINSIC PARAMETERS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO No. 3888.02

Sampling Location ID	pH	Temperature (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
MW1					
6/2/2003	---	---	---	-11	0.00
9/11/2003	---	---	---	3	0.42
12/1/2003	---	---	184	65	3.23
3/3/2004	---	---	---	86	1.00
6/9/2004	---	---	218	-7	0.43
9/2/2004	---	---	257	-63	4.16
12/1/2004	---	---	173	56	0.7
3/1/2005	---	---	---	-30	0.47
6/1/2005	---	---	---	-49	0.43
9/1/2005	---	---	---	42	0.89
12/1/2005	---	---	---	24	0.46
3/30/2006	---	---	---	Ur	0.79
6/9/2006	---	---	---	Ur	0.49
MW2					
6/2/2003	---	---	---	67	0.00
3/3/2004	---	---	---	89	0.56
6/9/2004	---	---	98	-78	0.42
9/2/2004	---	---	---	---	---
12/1/2004	---	---	122	-6	0.69
3/1/2005	---	---	---	-17	0.49
6/1/2005	---	---	---	-31	0.30
9/1/2005	---	---	---	-5	0.77
12/1/2005	---	---	---	17	0.48
3/30/2006	---	---	---	-72	0.47
6/9/2006	---	---	---	Ur	0.63
MW3					
6/2/2003	---	---	---	13	0.00
12/1/2003	---	---	94	26	2.23
3/3/2004	---	---	---	32	0.55
6/9/2004	---	---	112	Ur	0.64
9/2/2004	---	---	123	-57	3.89
12/1/2004	---	---	145	-60	0.61
6/8/2006*	6.84	60.4'F	1.37	59	0.92
MW4					
12/1/2005			Dry		
3/30/2006	---	---	---	Ur	1.15
6/9/2006	---	---	---	Ur	0.44
MW5					
12/1/2005	---	---	---	-36	0.72
3/30/2006	---	---	---	Ur	110
6/9/2006	---	---	---	Ur	0.69
MW6					
4/4/2006	---	---	---	94	2.16
6/9/2006	---	---	---	Ur	0.55

Notes:
* = monitored by SHN

CHART 1. TPHG AND BENZENE GROUNDWATER CONCENTRATIONS IN MONITORING WELL MW1
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case NO. 1THU229; LACO No. 3888.02

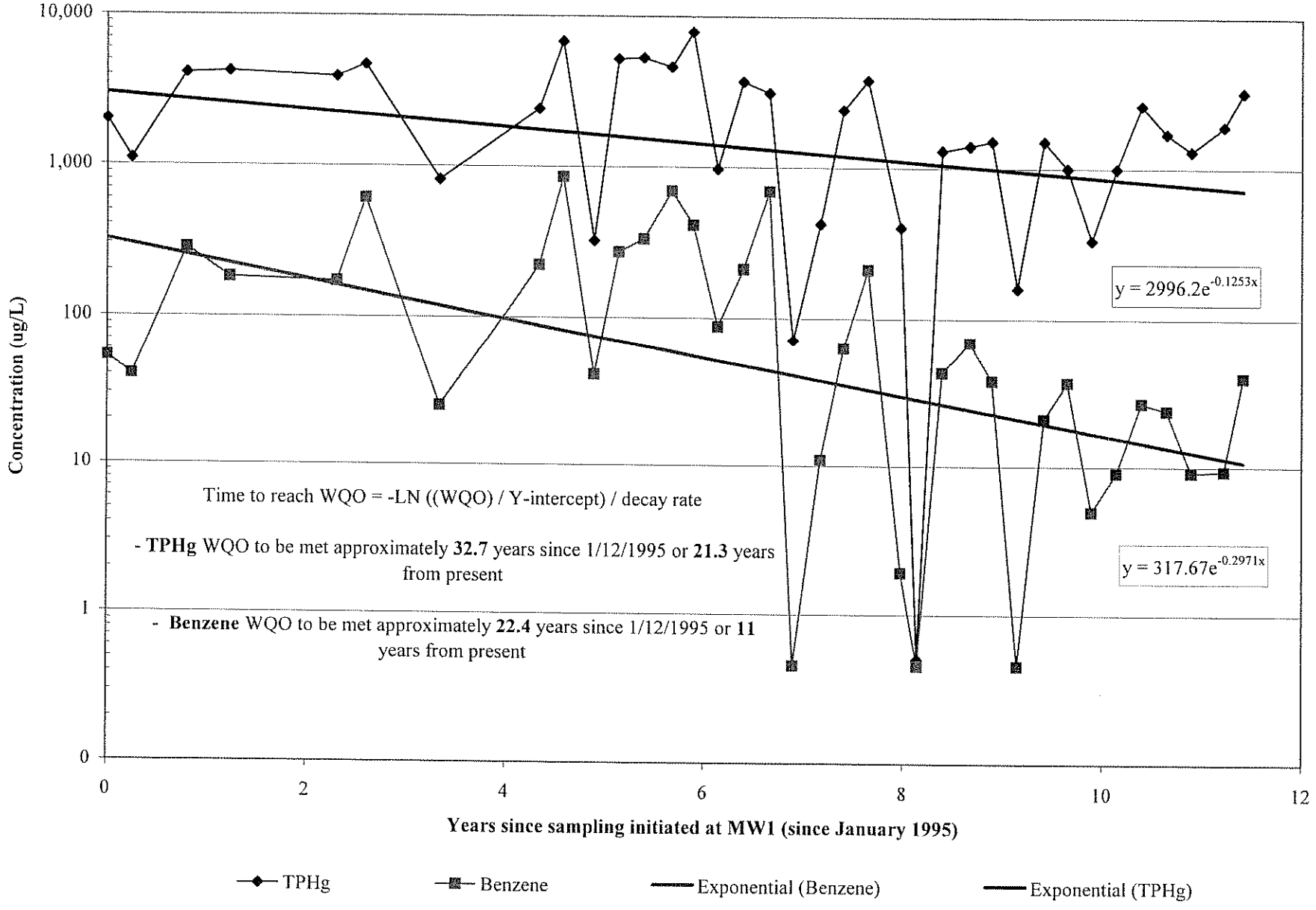


CHART 2. TPHG AND BENZENE GROUNDWATER CONCENTRATIONS IN MONITORING WELL MW2

Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA

LOP No. 12229, CRWQCB Case No. 1THU229; LACO Project No. 3888.02

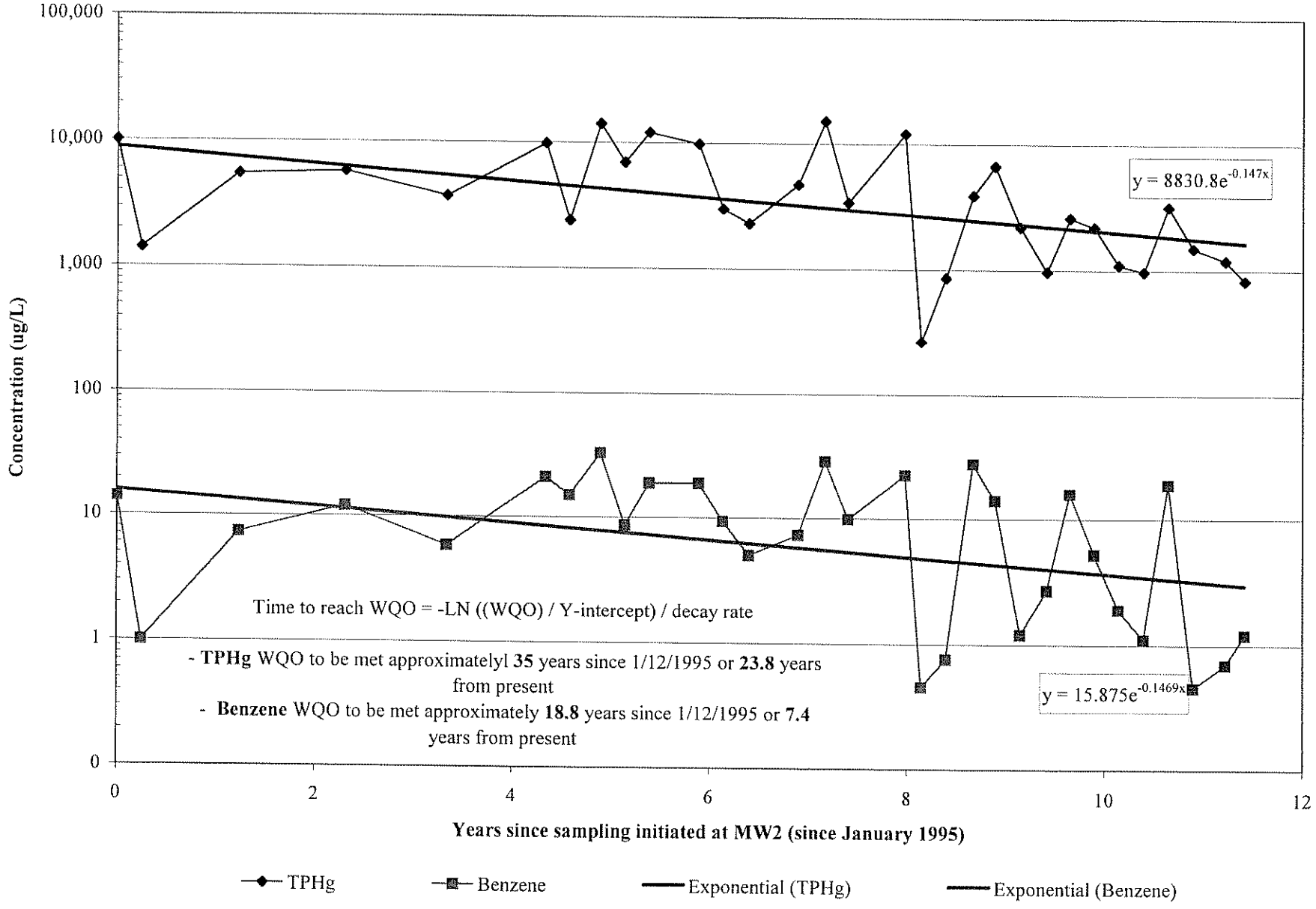


CHART 3. TPHG AND BENZENE GROUNDWATER CONCENTRATIONS IN MONITORING WELL MW3
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; CRWQCB Case No. 1THU229; LACO No. 3888.02

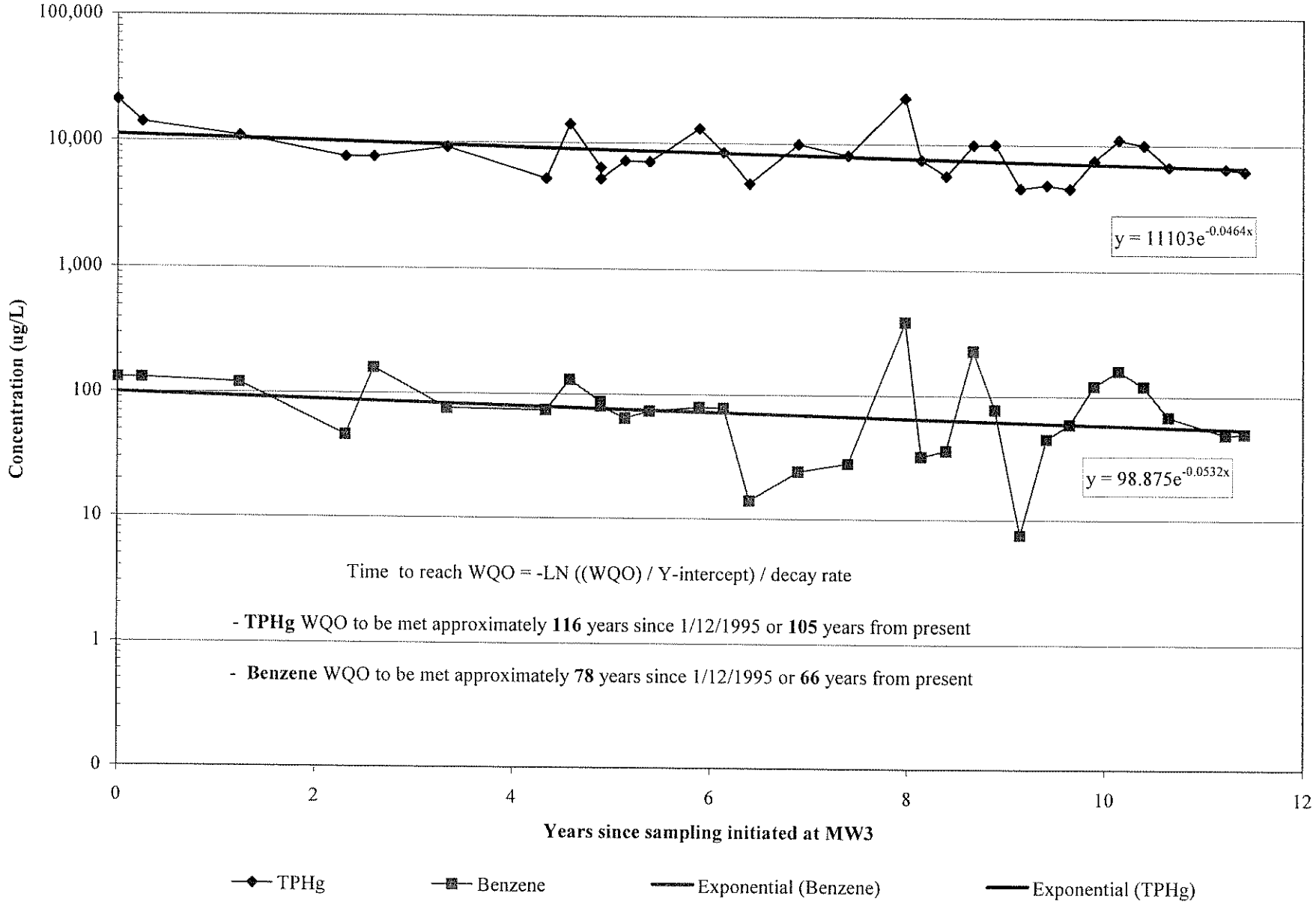


CHART 4. TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES CONCENTRATIONS IN MW2

Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA

LOP No. 12229; CRWQCB Case No. 1THU229; LACO No. 3888.02

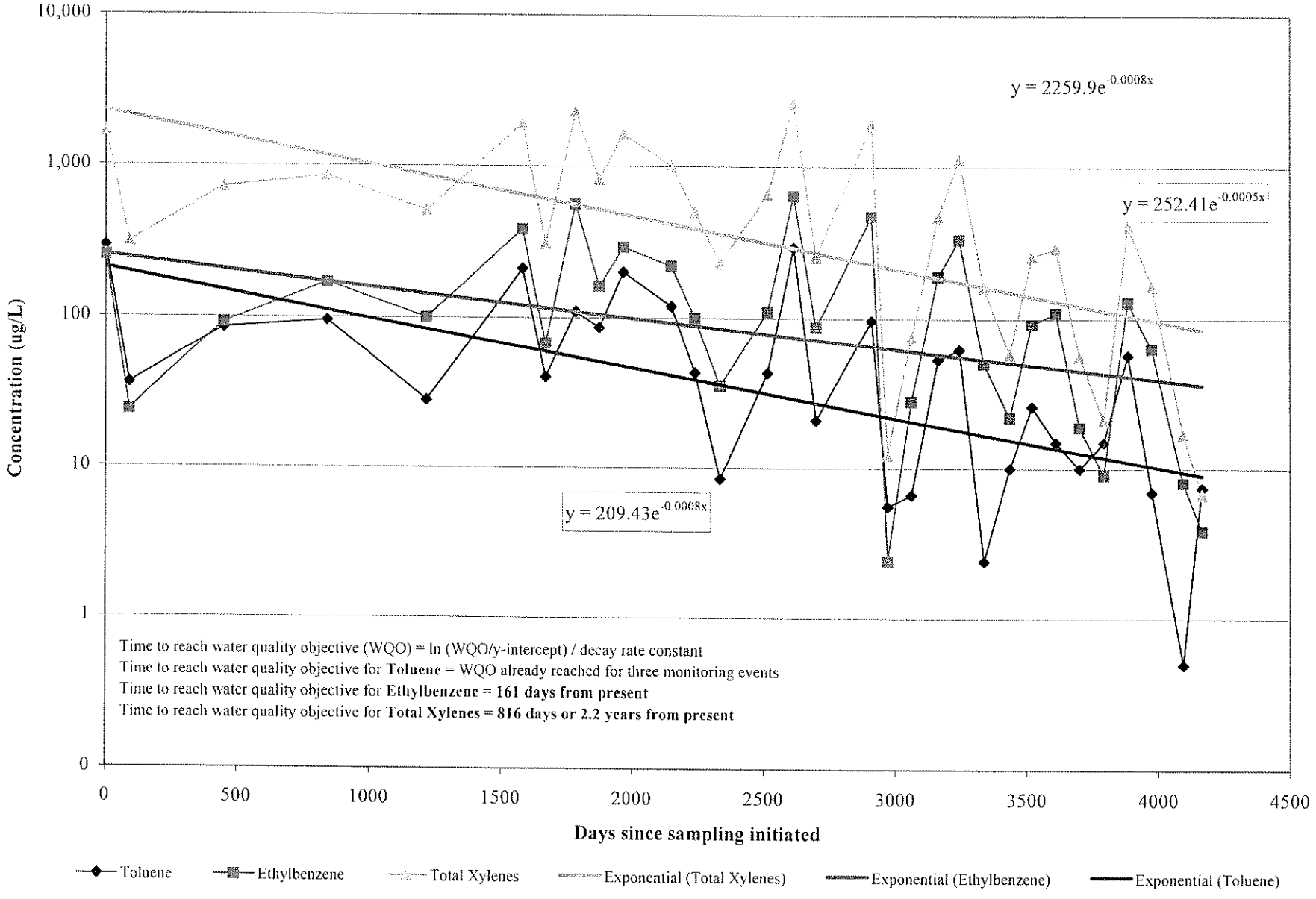
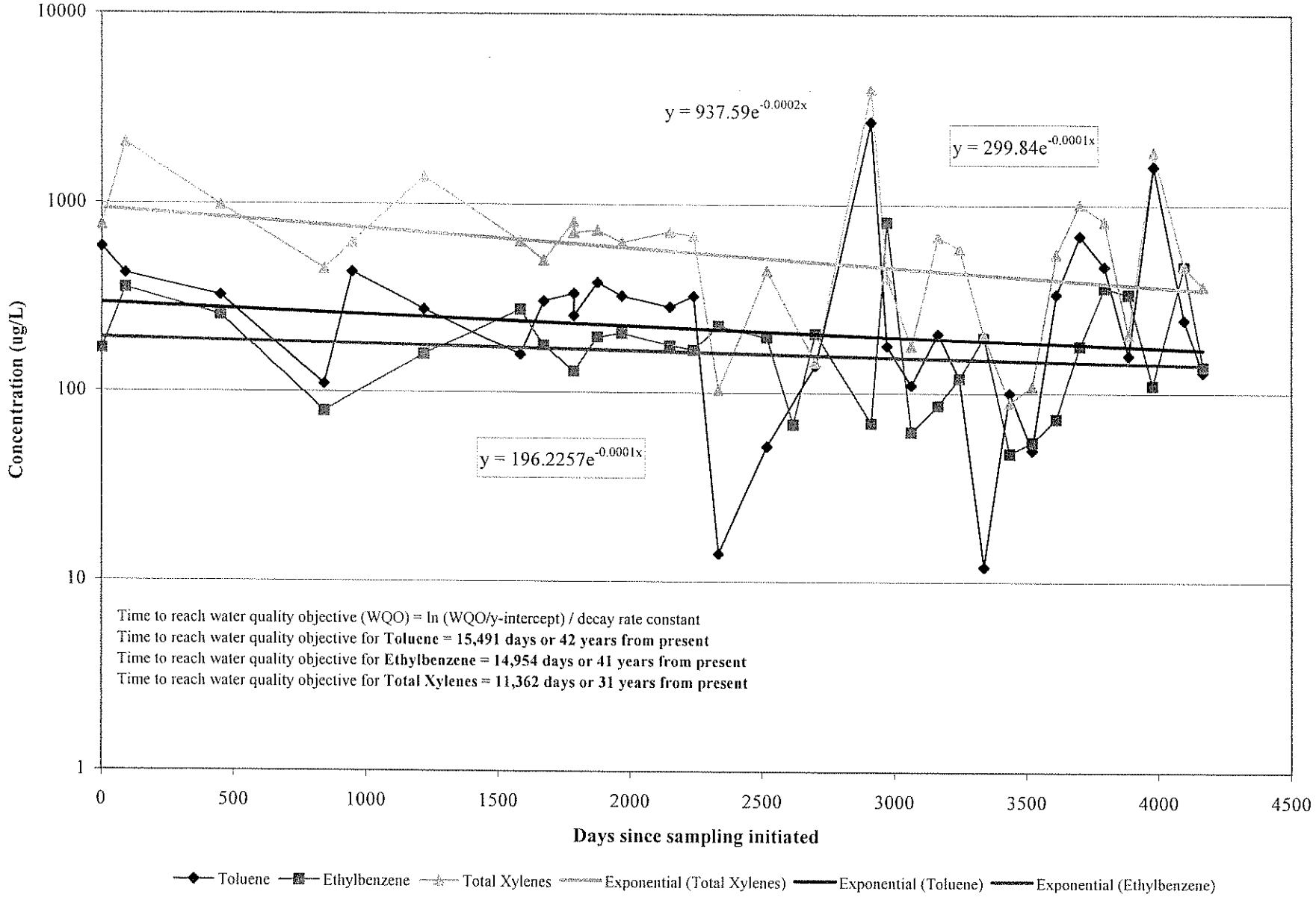


CHART 5. TOLUENE, ETHYLBENZENE AND TOTAL XYLENES CONCENTRATIONS IN MW3

Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA

LOP No. 12229; CRWQCB Case No. 1THU229; LACO No. 3888.02



Attachment 1

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 •shninfo@shn-engr.com

FAX COVER SHEET

RECEIVED
LACO ASSOCIATES
JUN 27 2006
BY: JG

Reference: 097309
Date: 6/27/06
To: Caroline Levenda

Fax #: 443-0553
From: Roland Rueber
SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
Fax #: **707/441-8877**
Subject: Blue Lake Belting
No. Pages Total: **22**

Attached are the field notes and lab results from the second quarter 2006 monitoring event at Blue Lake Belting & Leather. Please send me your field notes and lab data from Blue Lake Market when you get the results for inclusion in our report.
If you have any questions please call me at 707-269-1042.

Thanks

Roland M. Rueber, P.G.
Project Geologist
SHN Consulting Engineers & Geologists Inc.
812 W. Wabash
Eureka, CA 95501
ph. 707-441-8855
Fax 707-441-8877
rrueber@shn-engr.com

The contents of this document may be sensitive. If you have received this fax by mistake, if you have any questions, or if you did not receive all pages of the fax, please telephone 707/441-8855.

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812 W. Wabash * Eureka, CA 95501 * Tel: 707.441.8855 * FAX: 707.441.8877 *E-mail: shrinfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 097309
Page of

PROJECT NAME: Blue Lake Belting & Leather	CLIENT/OWNER: Charles Huntzinger	DAILY FIELD REPORT SEQUENCE NO:	
GENERAL LOCATION OF WORK: Blue Lake CA.	OWNER/CLIENT REPRESENTATIVE: Charles Huntzinger	DATE: 6/8/06	DAY OF WEEK: Thur.
TYPE OF WORK: Sampling	WEATHER: Partly Cloudy	PROJECT ENGINEER/ SUPERVISOR: Mike Fogel	
SOURCE & DESCRIPTION OF FILL MATERIAL:	KEY PERSONS CONTACTED:	TECHNICIAN: Dustin Tibbets	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

0915 On site. Open up all wells Taking water level's and DO readings.
1102 Purging MW-106 with a disposable bailer. All purge water was caught in 5gal. buckets.
1140 Sampled MW-106 with it's bailer. Locked up well. MW-106
1149 Purging MW-101 with a disposable bailer. All purge water was caught in 5gal. buckets.
1240 Sampled MW-101 with it's bailer. Locked up well. MW-101
1310 Purging MW-102 with a disposable bailer. All purge water was caught.
1340 Sampled MW-102 with it's bailer. Locked up well. MW-102
1346 Purging MW-105 with a disposable bailer. All purge water was caught in 5gal. buckets.
1410 Sampled MW-105 with it's bailer. Locked up well. MW-105
1417 Purging MW-103 with a disposable bailer. All purge water was caught in 5gal. buckets.
1445 Sampled MW-103 with it's bailer. Locked up well. MW-103
1455 Purging MW-3 with a disposable bailer. All purge water was caught in 5gal. buckets.
1520 Sampled MW-3 with it's bailer. Locked up well. MW-3
1532 Purging MW-104 with a disposable bailer. All purge water was caught in 5gal. buckets.
1555 Sampled MW-104 with it's bailer. Locked up well. MW-104
1600 Clean and loaded up.
1610 Off site.

Note: All purge and decon water was transported to SHN's P.W.S.T. located at 812 W. Wabash Ave. Eureka CA. 59 gal.

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DAILY FIELD REPORT

JOB NO 092309
Page of

PROJECT NAME: Blue Lake Belting & Leather	CLIENT/OWNER: Charles Huntzinger	DAILY FIELD REPORT SEQUENCE NO	
GENERAL LOCATION OF WORK: Blue Lake CA.	OWNER/CLIENT REPRESENTATIVE: Charles Huntzinger	DATE: 6/8/06	DAY OF WEEK: Thur
TYPE OF WORK: Sampling	WEATHER: Partly Cloudy	PROJECT ENGINEER/ SUPERVISOR: Mike Foget	
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: Dustin Tibbets	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

	Purge	Sampled
MW-101	Yes	Yes
MW-102	↓	↓
MW-103		
MW-104		
MW-105		
MW-106		
MW-3		

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EQUIPMENT CALIBRATION SHEET

Name: Dustin Tibbets

Project Name: Blue Lake Belting

Reference No.: 097309

Date: 6/8/06

Equipment: ☒ pH & EC ☐ PID ☐ $GTCO_2$ ☐ GTLEL
☐ Turbidity ☒ Other Dissolved Oxygen meter

Description of Calibration Procedure and Results:

pH & EC meter calibrated using a 2 buffer method with a pH 7.00 and 4.01, meter was set exactly to 7.00 and 4.01 and conductivity was set at 700 umhos.

DO meter is self calibrating with the Altimeter set at 0.

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Groundwater Elevations

Job No.: 097309 Name: Dustin Tibbetts

Client: CHARLES HUNTZINGER Date: 6/8/06

Location: BLUE LAKE, CA Weather: Partly Cloudy

Sample Location	Time of Reading	Top of Casing Elevation (feet)	Depth To Water (feet)	Water Surface Elevation (feet)
MW101	0952	92.27	8.14	84.13
MW-102	0954	91.19	7.94	83.25
MW-103	0958	91.57	8.23	83.34
MW-104	1001	91.48	7.90	83.58
MW-105	0956	91.32	8.07	83.25
MW-106	0950	88.88	5.91	82.97
MW-3	0959	91.63	8.27	83.36
OBS-1	1002	89.45	8.70	80.75
OBS-2	1004	91.29	8.04	83.25

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Water Sampling Data Sheet

Project Name:	Blue Lake Belting & Leather	Date/Time:	6/8/06
Project No.:	097309	Sampler Name:	Dustin Tibbets
Location:	Blue Lake Ca.	Sample Type:	Water
Well #:	MW-106	Weather	Partly Cloudy
Hydrocarbon Thickness/Depth (feet):		Key Needed:	Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
15.00	-	5.91	=	9.09	x	.163	=	1.45 X 3 = 4.36

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1024	1.30						0 gal.	
1116		20	199				.25 gal.	
1120				117	52.5°	7.28	1.5 gal.	
1124	No flow			115	52.4°	7.22	3 gal.	
1129	thru cell			117	52.8°	7.27	4.5 gal.	

Purge Method: Bailer

Total Volume Removed: 4.5 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-106	3-40ml	HCL	NCL	TPHG/BTEX

Well Condition:

Remarks:

Recharge to 5.98 at sample time. - 1140

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Water Sampling Data Sheet

Project Name: Blue Lake Belting & Leather
Date/Time: 6/8/06
Project No.: 097309
Sampler Name: Dustin Tibbets
Location: Blue Lake Ca.
Sample Type: Water
Well #: MW-101
Weather: Partly Cloudy
Hydrocarbon Thickness/Depth (feet):
Key Needed: Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
13.00	-	8.14	=	4.86	x	.163	=	.78 x 3 = 2.33

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1031	3.13						0 gal.	
1153		35	183				.25 gal.	
1155				57	59.4°	7.33	1 gal.	
1158	No flow			50	58.7°	7.28	2 gal.	
1201	thru cell			54	58.6°	7.25	3 gal.	

Purge Method: Bailer
Total Volume Removed: 3 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-101	3-40 ml	HCL	NCL	TPHG/BTEX

Well Condition:
Remarks:
Recharge to 8.18 at sample time. - 1210

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Water Sampling Data Sheet

Project Name: Blue Lake Belting + Leather
Date/Time: 6/8/06
Project No.: 097309
Sampler Name: Dustin Tibbetts
Location: Blue Lake Ca.
Sample Type: Water
Well #: MW-102
Weather: Partly Cloudy
Hydrocarbon Thickness/Depth (feet):
Key Needed: Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
19.50	-	7.94	=	11.56	x	.163	=	1.85 x 3 = 5.55

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1038	2.74						0 gal.	
1315		25	215				.25 gal.	
1319				45	58.2°	7.50	2 gal.	
1324	No flow			45	57.6°	7.47	4 gal.	
1329	thru cell			43	58.3°	7.45	5.75 gal.	

Purge Method: Bailer
Total Volume Removed: 5.75 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-102	3-40 ml	HCL	NCL	TPHG/BTEX

Well Condition:

Remarks:

Recharge to 7.94 at sample time. - 1340

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Water Sampling Data Sheet

Project Name: Blue Lake Belting & Leather
Date/Time: 6/8/06
Project No.: 097309
Sampler Name: Dustin Tibbets
Location: Blue Lake Ca.
Sample Type: Water
Well #: MW-105
Weather: Partly cloudy
Hydrocarbon Thickness/Depth (feet):
Key Needed: Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
15.10	-	8.07	=	7.03	x	.163	=	1.12 x 3 = 3.37

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1043	1.15						0 gal.	
1351		90	84				.25 gal.	
1353				98	60.2°	6.65	1.25 gal.	
1356	No flow			92	60°	6.71	2.50 gal.	
1400	thru cell			188	60°	6.73	3.50 gal.	

Purge Method: Bailer
Total Volume Removed: 3.50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-105	3-40 ml.	HCL	NCL	TPHg/BTEX

Well Condition:

Remarks:

Recharge to 8.07 at sample time. - 1410

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Water Sampling Data Sheet

Project Name: Blue Lake Belting + Leather
Date/Time: 6/8/06
Project No.: 097309
Sampler Name: Dustin Tibbetts
Location: Blue Lake Ca.
Sample Type: Water
Well #: MW-103
Weather: Partly Cloudy
Hydrocarbon Thickness/Depth (feet):
Key Needed: Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
18.65	-	8.23	=	10.42	x	.653 .163	=	6.80 x 3 = 20.41

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1050	0.93						0 gal.	
1422		50	40				1.00 gal.	
1427				52	60.7°	6.80	7 gal.	
1432	No flow			52	60.5°	6.84	14 gal.	
1436	thru cell			53	60.3°	6.82	21 gal.	

Purge Method: Bailer
Total Volume Removed: 21 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-103	3-40 ml	HCL	NCL	TPHg/BTEX

Well Condition:

Remarks:

Recharge to 8.26 at sample time. - 1445

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Water Sampling Data Sheet

Project Name: Blue Lake Belting & Leather
Date/Time: 6/8/06
Project No.: 097309
Sampler Name: Dustin Tibbets
Location: Blue Lake Ca.
Sample Type: Water
Well #: MW-3
Weather: Partly Cloudy
Hydrocarbon Thickness/Depth (feet):
Key Needed: Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
14.70	-	8.27	=	6.43	x	.163	=	1.03 X 3 = 3.09

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1056	0.92						0 gal.	
1459		45	59				.25 gal	
1502				60	60.5°	6.88	1.25 gal.	
1506	No flow			132	60.4°	6.85	2.25 gal.	
1509	thru cell			137	60.4°	6.84	3.25 gal.	

Purge Method: Bailer
Total Volume Removed: 3.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-3	3-40 ml.	HCL	NCL	TPHd/BTEX

Well Condition:

Remarks:

Recharge to 8.34 at sample time. - 1520

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Water Sampling Data Sheet

Project Name:	Blue Lake Belting + Leather	Date/Time:	6/8/06
Project No.:	097309	Sampler Name:	Dustin Tibbets
Location:	Blue Lake Ca.	Sample Type:	Water
Well #:	MW-104	Weather	Partly cloudy
Hydrocarbon Thickness/Depth (feet):		Key Needed:	Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
16.55	-	7.90	=	8.65	x	.653	=	5.65 x 3 = 16.95

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1102	2.71						0 gal.	
1530		15	88				1.20 gal.	
1533				57	62.4°	7.20	6 gal.	
1528	No flow			58	62.6	7.09	12 gal.	
1543	thru cell			58	61.8°	7.10	17 gal.	

Purge Method: Bailer

Total Volume Removed: 17 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-104	3-40ml.	HCL	NCL	TPHG/BTEX

Well Condition:

Remarks: Well water is bubbling from Ozone system well taking DO reading
Recharge to 8.82 at sample time. - 1555

NORTH COAST LABORATORIES LTD.

June 23, 2006

SHN Consulting Engineers and Geologists
812 West Wabash Avenue
Eureka, CA 95501

Attn: Roland Rueber

RE: 097309/Blue Lake Belting & Leather

Order No.: 0606266
Invoice No.: 59089
PO No.:
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	MW-106
02A	MW-101
03A	MW-102
04A	MW-105
05A	MW-103
06A	MW-3
07A	MW-104

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

Colleen Blackstone
Laboratory Supervisor(s)

(FOR TLS)
QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

5680 West End Road • Arcata California 95521-9202 • 707-822-4649 • FAX 707-822-6831
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North Coast Laboratories, Ltd.

Date: 23-Jun-2006

CLIENT: SHN Consulting Engineers and Geologists
Project: 097309/Blue Lake Belting & Leather
Lab Order: 0606266

CASE NARRATIVE

BTEX:
2 Some reporting limits were raised for samples MW-105 and MW-103 due to matrix interference.

6 Samples MW-105, MW-103, MW-3 and MW-104 were diluted and some reporting limits were raised additionally due to matrix interference.

TPH as Gasoline:
8 Sample MW-105 does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range.

5 Samples MW-3 and MW-104 appear to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.

11 The gasoline value for sample MW-103 includes the reported gasoline components in addition to other peaks in the gasoline range.

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Date: 23-Jun-2006
WorkOrder: 0606266

ANALYTICAL REPORT

Client Sample ID: MW-106 Received: 6/8/06 Collected: 6/8/06 11:40
Lab ID: 0606266-01A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/16/06
Benzene	ND	0.50	µg/L	1.0		6/16/06
Toluene	ND	0.50	µg/L	1.0		6/16/06
Ethylbenzene	ND	0.50	µg/L	1.0		6/16/06
m,p-Xylene	ND	0.50	µg/L	1.0		6/16/06
o-Xylene	ND	0.50	µg/L	1.0		6/16/06
Surrogate: Cis-1,2-Dichloroethylene	87.4	85-115	% Rec	1.0		6/16/06

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		6/16/06

Client Sample ID: MW-101 Received: 6/8/06 Collected: 6/8/06 12:10
Lab ID: 0606266-02A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/16/06
Benzene	ND	0.50	µg/L	1.0		6/16/06
Toluene	ND	0.50	µg/L	1.0		6/16/06
Ethylbenzene	ND	0.50	µg/L	1.0		6/16/06
m,p-Xylene	ND	0.50	µg/L	1.0		6/16/06
o-Xylene	ND	0.50	µg/L	1.0		6/16/06
Surrogate: Cis-1,2-Dichloroethylene	87.8	85-115	% Rec	1.0		6/16/06

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		6/16/06

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Date: 23-Jun-2006
WorkOrder: 0606266

ANALYTICAL REPORT

Client Sample ID: MW-102 Received: 6/8/06 Collected: 6/8/06 13:40
Lab ID: 0606266-03A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/16/06
Benzene	ND	0.50	µg/L	1.0		6/16/06
Toluene	ND	0.50	µg/L	1.0		6/16/06
Ethylbenzene	ND	0.50	µg/L	1.0		6/16/06
m,p-Xylene	ND	0.50	µg/L	1.0		6/16/06
o-Xylene	ND	0.50	µg/L	1.0		6/16/06
Surrogate: Cis-1,2-Dichloroethylene	88.1	85-115	% Rec	1.0		6/16/06

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		6/16/06

Client Sample ID: MW-105 Received: 6/8/06 Collected: 6/8/06 14:10
Lab ID: 0606266-04A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	9.0	µg/L	1.0		6/16/06
Benzene	1.6	0.50	µg/L	1.0		6/16/06
Toluene	ND	50	µg/L	10		6/16/06
Ethylbenzene	1.5	0.50	µg/L	1.0		6/16/06
m,p-Xylene	1.0	0.50	µg/L	1.0		6/16/06
o-Xylene	0.61	0.50	µg/L	1.0		6/16/06
Surrogate: Cis-1,2-Dichloroethylene	104	85-115	% Rec	1.0		6/16/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1,200	50	µg/L	1.0		6/16/06

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Date: 23-Jun-2006
WorkOrder: 0606266

ANALYTICAL REPORT

Client Sample ID: MW-103 Received: 6/8/06 Collected: 6/8/06 14:45
Lab ID: 0606266-05A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	9.0	µg/L	1.0		6/16/06
Benzene	7.1	0.50	µg/L	1.0		6/16/06
Toluene	ND	40	µg/L	10		6/16/06
Ethylbenzene	11	5.0	µg/L	10		6/16/06
m,p-Xylene	3.4	0.50	µg/L	1.0		6/16/06
o-Xylene	2.0	0.50	µg/L	1.0		6/16/06
Surrogate: Cis-1,2-Dichloroethylene	108	85-115	% Rec	1.0		6/16/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	920	50	µg/L	1.0		6/16/06

Client Sample ID: MW-3 Received: 6/8/06 Collected: 6/8/06 15:20
Lab ID: 0606266-06A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	150	µg/L	10		6/16/06
Benzene	50	50	µg/L	100		6/16/06
Toluene	130	50	µg/L	100		6/16/06
Ethylbenzene	140	50	µg/L	100		6/16/06
m,p-Xylene	290	50	µg/L	100		6/16/06
o-Xylene	87	50	µg/L	100		6/16/06
Surrogate: Cis-1,2-Dichloroethylene	86.2	85-115	% Rec	100		6/16/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	6,200	500	µg/L	10		6/16/06

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Date: 23-Jun-2006
WorkOrder: 0606266

ANALYTICAL REPORT

Client Sample ID: MW-104
Lab ID: 0606266-07A

Received: 6/8/06 Collected: 6/8/06 15:55

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	180	µg/L	10		6/16/06
Benzene	46	5.0	µg/L	10		6/16/06
Toluene	72	5.0	µg/L	10		6/16/06
Ethylbenzene	150	50	µg/L	100		6/16/06
m,p-Xylene	260	50	µg/L	100		6/16/06
o-Xylene	38	5.0	µg/L	10		6/16/06
Surrogate: Cis-1,2-Dichloroethylene	96.1	85-115	% Rec	100		6/16/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	7,400	500	µg/L	10		6/16/06

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North Coast Laboratories, Ltd.

Date: 23-Jun-2006

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0606266
Project: 097309/Blue Lake Belting & Leather

QC SUMMARY REPORT

Method Blank

Sample ID MB-6/16/06 | Batch ID: R41914 | Test Code: BTXEW | Units: µg/L | Analysis Date 6/16/06 12:58:31 PM | Prep Date
Client ID: | Run ID: ORGC8_060616B | SeqNo: 601849

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	1.511	3.0									J
Benzene	0.08846	0.50									J
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	0.2162	0.50									J
o-Xylene	ND	0.50									
Cis-1,2-Dichloroethylene	0.877	0.10	1.00	0	87.7%	85	115	0			

Sample ID MB-6/16/06 | Batch ID: R41863 | Test Code: TPHCGW | Units: µg/L | Analysis Date 6/16/06 12:58:31 PM | Prep Date
Client ID: | Run ID: ORGC8_060616A | SeqNo: 601206

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

JUN-27-2006 10:32 SHN EUREKA 707 441 8877 P.19/22

North Coast Laboratories, Ltd.

Date: 23-Jun-2006

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0606266
Project: 097309/Blue Lake Belting & Leather

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID LCS-06360 | Batch ID: R41914 | Test Code: BTXEW | Units: µg/L | Analysis Date 6/16/06 10:31:36 AM | Prep Date
Client ID: | Run ID: ORGC8_060616B | SeqNo: 601848

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	45.69	3.0	40.0	0	114%	85	115	0			
Benzene	5.186	0.50	5.00	0	104%	85	115	0			
Toluene	5.135	0.50	5.00	0	103%	85	115	0			
Ethylbenzene	5.094	0.50	5.00	0	102%	85	115	0			
m,p-Xylene	10.42	0.50	10.0	0	104%	85	115	0			
o-Xylene	5.114	0.50	5.00	0	102%	85	115	0			
Cis-1,2-Dichloroethylene	1.05	0.10	1.00	0	105%	85	115	0			

Sample ID LCSD-06360 | Batch ID: R41914 | Test Code: BTXEW | Units: µg/L | Analysis Date 6/16/06 10:24:41 PM | Prep Date
Client ID: | Run ID: ORGC8_060616B | SeqNo: 601862

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	44.80	3.0	40.0	0	112%	85	115	45.7	1.96%	15	
Benzene	5.075	0.50	5.00	0	101%	85	115	5.19	2.17%	15	
Toluene	5.240	0.50	5.00	0	105%	85	115	5.14	2.02%	15	
Ethylbenzene	4.953	0.50	5.00	0	99.1%	85	115	5.09	2.81%	15	
m,p-Xylene	10.04	0.50	10.0	0	100%	85	115	10.4	3.71%	15	
o-Xylene	4.992	0.50	5.00	0	99.8%	85	115	5.11	2.41%	15	
Cis-1,2-Dichloroethylene	1.03	0.10	1.00	0	103%	85	115	1.05	1.86%	15	

Sample ID LCS-06361 | Batch ID: R41863 | Test Code: TPHCGW | Units: µg/L | Analysis Date 6/16/06 11:44:40 AM | Prep Date
Client ID: | Run ID: ORGC8_060616A | SeqNo: 601205

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	497.6	50	500	0	99.5%	85	115	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: SHN Consulting Engineers and Geologists
Work Order: 0606266
Project: 097309/Blue Lake Belting & Leather

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

Sample ID LCSD-06361 Batch ID: R41863 Test Code: TPHCGW Units: µg/L Analysis Date 6/16/06 11:00:46 PM Prep Date
Client ID: Run ID: ORGC8_060616A SeqNo: 601215

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	493.3	50	500	0	98.7%	85	115	498	0.882%	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.
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Chain of Custody

LABORATORY NUMBER: [redacted]

Attention: Roland Rueber
Results & Invoice to: SHN
Address: 812 West Wabash Avenue
Eureka, CA 95501
Phone: 441-8855
Copies of Report to:
Sampler (Sign & Print): Dust Sillet

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: 097309
Project Name: Blue Lake Belting + leather
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	TPHd/BTEX
1	MW-106	6/8/06	1140	GW	✓
2	MW-101	↓	1210	↓	✓
3	MW-102	↓	1340	↓	✓
4	MW-105	↓	1410	↓	✓
5	MW-103	↓	1445	↓	✓
6	MW-3	↓	1520	↓	✓
7	MW-104	↓	1555	↓	✓

SAMPLE CONDITION/SPECIAL INSTRUCTIONS:
EDF

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign & Print)	DATE/TIME
Dust Sillet	6/8/06	[illegible]	6/8/06
			1615

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

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

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

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Attachment 2

KEY TO ABBREVIATIONS
Blue Lake Market, 410 Railroad Avenue, Blue Lake
LOP No. 12229; CRWQCB Case No. 1THU229; LACO Project No. 3888.02

KEY TO ABBREVIATIONS		
AL	--	action limit; a non-enforceable California drinking water standard; shown in parentheses.
BGS	--	Below Ground surface
BTEX	--	Benzene; Toluene; Ethylbenzene; m,p- and o- Xylenes
CO_2	--	Carbon dioxide
COC	--	Chain of custody
CRWQCB	--	California Regional Water Quality Control Board
DHP	--	Down-hole-pump (submersible pump)
DIPE	--	Di-isopropyl Ether
DO	--	Dissolved Oxygen
DTW	--	Depth-to-Water
ECw	--	Electrical Conductivity in water
ETBE	--	Ethyl Tertiary Butyl Ether
FP	--	Free Product
MCL	--	Maximum contaminant level, an enforceable California drinking water standard.
MTBE	--	Methyl Tertiary Butyl Ether
ND<50	--	non-detect at reporting limits shown
NOT ACTIVE	--	Sample not analyzed for parameter during current sampling event
ORP	--	Oxidation Reduction Potential
PCE	--	Perchloroethene same as tetrachloroethene
pH	--	Potential of hydrogen
SGC	--	Silica gel cleanup
T	--	Temperature
TAME	--	Tertiary Amyl Methyl Ether
TBA	--	Tetiary Butyl Alcohol
TBF	--	Tertiary Butyl Formate
Tot	--	Taste and odor threshold, a non-enforceable California drinking water standard.
TPHg	--	Total Petroleum Hydrocarbons as Gasoline
Ur	--	Unreadable
µg/L	--	Micro grams per liter (parts per billion)
---	--	Not analyzed or not available

Note: Not all abbreviations in this key are used in this report.

Attachment 3

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

Project Name: BLUE LAKE MARKET
Project No.: 3888.01 3888.02
Date: 6-9-06
Golbal ID No.: T0602300170
PM: DLL

Tech: RLD
Mob/Demob time: 50/25
Travel time: 1.0
Time on site: 9:00
Time off site: 12:30
Mileage: 34

WELL No.	MW1		MW2		MW4		MW5		MW6	
DIAMETER (in)	2.0		2.0		1.5		1.5		1.5	
SCREENED INTERVAL (ft)	5-15		4-14		10-15		10-15		5-15	
DEPTH TO WATER (ft)	6.53		7.85		7.56		6.61		9.06	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH										
FIELD INTRINSICS: TEMP (°C)										
FIELD INTRINSICS: Ecw (µmohs)										
FIELD INTRINSICS: ORP (mV)	-96	ur	ur	ur	-90	ur	ur	ur	-70	ur
FIELD INTRINSICS: DO (mg/L)	2.96	0.49	2.18	0.63	1.03	0.44	1.19	0.69	0.97	0.55
FIELD INTRINSICS: OTHER (units)	—		—		—		—		—	
PURGE: TIME	10:57	11:05	10:33	10:39	11:37	11:43	11:19	11:25	11:55	12:01
PURGE: METHOD (DHP/CB/B)	DHP		DHP		DHP		DHP		DHP	
PURGE: RATE (Lpm)	0.25		0.25		0.33		0.33		0.25	
PURGE: VOLUME (L)	2.0		1.5		2.0		2.0		1.5	
PURGE: COLOR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	TAN TURBID	CLOUDY CLEAR
PURGE: ODOR	LIGHT SWEET LIGHT SULFUR LIGHT FUEL		MED SULFUR LIGHT FUEL		LIGHT RUBBER MED FUEL		MED FUEL		NONE	
PURGE: INTAKE DEPTH (FEET)	12.0		12.5		13.5		13.5		13.5	
SAMPLE: TIME	11:07		10:41		11:45		11:27		12:03	
SAMPLE: METHOD (DHP/CB/B)	DHP		DHP		DHP		DHP		DHP	
SAMPLE: ANALYTES	TPHg/BTEX/MTBE		TPHg/BTEX/MTBE		TPHg/BTEX/MTBE		TPHg/BTEX/MTBE		TPHg/BTEX/MTBE	
SAMPLE: TOTAL DRAWDOWN (FEET)	0.51		0.38		0.30		0.20		0.06	
SAMPLE: 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
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TEL 707.443.5054
FAX 707.443.0553

Project Name: BLUE LAKE MARKET
Project No.: 3888.01
Date: 6-9-06
Golbal ID No.: T0602300170
PM: DLL

Tech: RLD
Mob/Demob time: .50/.25
Travel time: 1.0
Time on site: 9.00
Time off site: 12.30
Mileage: 34

WELL No.:	MW3				
DIAMETER (in)	2.0				
SCREENED INTERVAL (ft)	5-15				
DEPTH TO WATER (ft)	8.25				

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

		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	MEASURE ONLY									
	TOTAL DRAWDOWN (FEET)										
	REMARKS										
WELL CONDITION		GOOD									
WASTE DRUMS											

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

CONSULTING ENGINEERS
TEL 707.443.5054
FAX 707.443.0553

Project Name: BLUE LAKE MARKET
Project No.: 3888.01
Tech: RLD
Date: 6-9-06

WELL ID:	METER ACCURACY RANGE				
MW2	+/- 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)
10:35	—	—	—	ur	0.75
10:37	—	—	—	ur	0.67
10:39	—	—	—	ur	0.63

WELL ID: MW 1

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:59	—	—	—	ur	1.34
11:01	—	—	—	ur	0.79
11:03	—	—	—	ur	0.53
11:05	—	—	—	ur	0.49

WELL ID: MW5

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:21	—	—	—	ur	0.78
11:23	—	—	—	ur	0.73
11:25	—	—	—	ur	0.69

WELL ID: MW 4

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:39	—	—	—	ur	0.71
11:41	—	—	—	ur	0.54
11:43	—	—	—	ur	0.44

WELL ID: MW6

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:57	—	—	—	-95	0.73
11:59	—	—	—	ur	0.61
12:01	—	—	—	ur	0.55

WELL ID: —

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

LACO ASSOCIATES
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FAX 707.443.0553

Project Name: BLUE LAKE MARKET
Project No.: 3888.01
Tech: ZLD
Date: 6-9-06

WELL ID: MW3		WELL ID: MW2		WELL ID: MW1		WELL ID: MW5		WELL ID: MW4		WELL ID: MW6	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:05	8.25	9:10	7.85	9:15	6.53	9:20	6.61	9:25	7.56	9:30	9.06
9:35	8.25	9:40	7.85	9:45	6.53	9:50	6.61	9:55	7.56	10:00	9.06

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: PAT FOLKINS
Results & Invoice to:
Address: 2020 ARDAGH COURT
EUREKA, CA 95503
Phone:
Copies of Report to: Chris WATT c-LACO
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: 3888.01
Project Name: BLUE LAKE MARKET
Purchase Order Number: task 3039

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: TPHg/BTEX/MTBE (CONTAINER 9, PRESERVATIVE b)
	3888-MW1-W	2-9-06	AM	GW	3
	3888-MW2-W	↓	↓	↓	3
	3888-MW4-W	↓	↓	↓	3
	3888-MW5-W	↓	↓	↓	3
	3888-MW6-W	↓	↓	↓	3
	3888-QCTB-W	↓	PM	↓	1

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER
Intact/Cold

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
RLD [signature] 6-9-06	PM 1240	Laura Hill	6/9/06 1240

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

NORTH COAST LABORATORIES LTD.

June 23, 2006

Pvt. cust. paying on pickup

Order No.: 0606284
Invoice No.: 59090
PO No.: TASK 3039
ELAP No. 1247-Expires July 2006

Attn: Pat Folkins

RE: 3888.01 BLUE LAKE MARKET

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	3888-MW1-W
02A	3888-MW2-W
03A	3888-MW4-W
04A	3888-MW5-W
05A	3888-MW6-W
06A	3888-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

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

REPORT CERTIFIED BY

Colleen Blackstone — Laboratory Supervisor(s)

(FOR TLS) — 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

CLIENT: Pvt. cust. paying on pickup
Project: 3888.01 BLUE LAKE MARKET
Lab Order: 0606284

CASE NARRATIVE

BTEX:
The reporting limit for MTBE was raised for sample 3888-MW-1-W due to matrix interference.

Samples 3888-MW4-W and 3888-MW5-W were diluted and the reporting limit for MTBE was raised additionally due to matrix interference.

The surrogate recoveries for samples 3888-MW1-W, 3888-MW4-W and 3888-MW6-W were below the lower acceptance limit. The response of the reporting limit standard was such that the target analytes would have been detected even with the low recoveries; therefore, the data were accepted.

TPH as Gasoline:
Samples 3888-MW1-W, 3888-MW2-W, 3888-MW4-W and 3888-MW5-W appear to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.

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Date: 23-Jun-2006
WorkOrder: 0606284

ANALYTICAL REPORT

Client Sample ID: 3888-MW1-W | Received: 6/9/06 | Collected: 6/9/06 0:00
Lab ID: 0606284-01A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	60	µg/L	1.0		6/17/06
Benzene	40	5.0	µg/L	10		6/21/06
Toluene	19	5.0	µg/L	10		6/21/06
Ethylbenzene	9.4	5.0	µg/L	10		6/21/06
m,p-Xylene	7.9	5.0	µg/L	10		6/21/06
o-Xylene	3.7	0.50	µg/L	1.0		6/17/06
Surrogate: Cis-1,2-Dichloroethylene	84.7	85-115	% Rec	10		6/21/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	3,200	500	µg/L	10		6/17/06

Client Sample ID: 3888-MW2-W | Received: 6/9/06 | Collected: 6/9/06 0:00
Lab ID: 0606284-02A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/17/06
Benzene	1.2	0.50	µg/L	1.0		6/17/06
Toluene	7.4	0.50	µg/L	1.0		6/17/06
Ethylbenzene	3.8	0.50	µg/L	1.0		6/17/06
m,p-Xylene	4.5	0.50	µg/L	1.0		6/17/06
o-Xylene	2.2	0.50	µg/L	1.0		6/17/06
Surrogate: Cis-1,2-Dichloroethylene	92.5	85-115	% Rec	1.0		6/17/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	830	50	µg/L	1.0		6/17/06

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Date: 23-Jun-2006
WorkOrder: 0606284

ANALYTICAL REPORT

Client Sample ID: 3888-MW4-W **Received:** 6/9/06 **Collected:** 6/9/06 0:00
Lab ID: 0606284-03A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	200	µg/L	10		6/17/06
Benzene	150	50	µg/L	100		6/21/06
Toluene	94	50	µg/L	100		6/21/06
Ethylbenzene	450	50	µg/L	100		6/21/06
m,p-Xylene	850	50	µg/L	100		6/21/06
o-Xylene	68	50	µg/L	100		6/21/06
Surrogate: Cis-1,2-Dichloroethylene	76.2	85-115	% Rec	100		6/21/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	9,500	500	µg/L	10		6/17/06

Client Sample ID: 3888-MW5-W **Received:** 6/9/06 **Collected:** 6/9/06 0:00
Lab ID: 0606284-04A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	300	µg/L	10		6/17/06
Benzene	280	50	µg/L	100		6/17/06
Toluene	140	50	µg/L	100		6/17/06
Ethylbenzene	760	50	µg/L	100		6/17/06
m,p-Xylene	990	50	µg/L	100		6/17/06
o-Xylene	60	50	µg/L	100		6/17/06
Surrogate: Cis-1,2-Dichloroethylene	95.1	85-115	% Rec	100		6/17/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	12,000	500	µg/L	10		6/17/06

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Date: 23-Jun-2006
WorkOrder: 0606284

ANALYTICAL REPORT

Client Sample ID: 3888-MW6-W **Received:** 6/9/06 **Collected:** 6/9/06 0:00
Lab ID: 0606284-05A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/17/06
Benzene	ND	0.50	µg/L	1.0		6/17/06
Toluene	ND	0.50	µg/L	1.0		6/17/06
Ethylbenzene	ND	0.50	µg/L	1.0		6/17/06
m,p-Xylene	ND	0.50	µg/L	1.0		6/17/06
o-Xylene	ND	0.50	µg/L	1.0		6/17/06
Surrogate: Cis-1,2-Dichloroethylene	84.1	85-115	% Rec	1.0		6/17/06

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		6/17/06

Client Sample ID: 3888-QCTB-W **Received:** 6/9/06 **Collected:** 6/9/06 0:00
Lab ID: 0606284-06A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/16/06
Benzene	ND	0.50	µg/L	1.0		6/16/06
Toluene	ND	0.50	µg/L	1.0		6/16/06
Ethylbenzene	ND	0.50	µg/L	1.0		6/16/06
m,p-Xylene	ND	0.50	µg/L	1.0		6/16/06
o-Xylene	ND	0.50	µg/L	1.0		6/16/06
Surrogate: Cis-1,2-Dichloroethylene	86.3	85-115	% Rec	1.0		6/16/06

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		6/16/06

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North Coast Laboratories, Ltd.

Date: 23-Jun-2006

CLIENT: Pvt. cust. paying on pickup
Work Order: 0606284
Project: 3888.01 BLUE LAKE MARKET

QC SUMMARY REPORT

Method Blank

Sample ID **MB-6/16/06** Batch ID: **R41914** Test Code: **BTXEW** Units: **µg/L** Analysis Date **6/16/06 12:58:31 PM** Prep Date
Client ID: Run ID: **ORGC8_060616B** SeqNo: **601849**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	1.511	3.0									J
Benzene	0.08846	0.50									J
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	0.2182	0.50									J
o-Xylene	ND	0.50									
Cis-1,2-Dichloroethylene	0.877	0.10	1.00	0	87.7%	85	115	0			

Sample ID **MB-6/16/06** Batch ID: **R41863** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **6/16/06 12:58:31 PM** Prep Date
Client ID: Run ID: **ORGC8_060616A** SeqNo: **601206**

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

North Coast Laboratories, Ltd.

Date: 23-Jun-2006

CLIENT: Pvt. cust. paying on pickup
Work Order: 0606284
Project: 3888.01 BLUE LAKE MARKET

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-06360** Batch ID: **R41914** Test Code: **BTXEW** Units: **µg/L** Analysis Date **6/16/06 10:31:36 AM** Prep Date
Client ID: Run ID: **ORGC8_060616B** SeqNo: **601848**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	45.69	3.0	40.0	0	114%	85	115	0			
Benzene	5.186	0.50	5.00	0	104%	85	115	0			
Toluene	5.135	0.50	5.00	0	103%	85	115	0			
Ethylbenzene	5.094	0.50	5.00	0	102%	85	115	0			
m,p-Xylene	10.42	0.50	10.0	0	104%	85	115	0			
o-Xylene	5.114	0.50	5.00	0	102%	85	115	0			
Cis-1,2-Dichloroethylene	1.05	0.10	1.00	0	105%	85	115	0			

Sample ID **LCSD-06360** Batch ID: **R41914** Test Code: **BTXEW** Units: **µg/L** Analysis Date **6/16/06 10:24:41 PM** Prep Date
Client ID: Run ID: **ORGC8_060616B** SeqNo: **601862**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	44.80	3.0	40.0	0	112%	85	115	45.7	1.96%	15	
Benzene	5.075	0.50	5.00	0	101%	85	115	5.19	2.17%	15	
Toluene	5.240	0.50	5.00	0	105%	85	115	5.14	2.02%	15	
Ethylbenzene	4.953	0.50	5.00	0	99.1%	85	115	5.09	2.81%	15	
m,p-Xylene	10.04	0.50	10.0	0	100%	85	115	10.4	3.71%	15	
o-Xylene	4.992	0.50	5.00	0	99.8%	85	115	5.11	2.41%	15	
Cis-1,2-Dichloroethylene	1.03	0.10	1.00	0	103%	85	115	1.05	1.86%	15	

Sample ID **LCS-06361** Batch ID: **R41863** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **6/16/06 11:44:40 AM** Prep Date
Client ID: Run ID: **ORGC8_060616A** SeqNo: **601205**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	497.6	50	500	0	99.5%	85	115	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: Pvt. cust. paying on pickup
Work Order: 0606284
Project: 3888.01 BLUE LAKE MARKET

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-06361** Batch ID: **R41863** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **6/16/06 11:00:46 PM** Prep Date

Client ID: Run ID: **ORGC8_060616A** SeqNo: **601215**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	493.3	50	500	0	98.7%	85	115	498	0.882%	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

0606284

LABORATORY NUMBER:

Attention: PAT FOLKINS
Results & Invoice to:
Address: 2020 ARDAGH COURT
EUREKA, CA 95503
Phone: (Bob) 6/9/06
Copies of Report to: ~~Christine Manhart~~-LACO CHRIS WAIT
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:

PROJECT INFORMATION
Project Number: 3888.01
Project Name: BLUE LAKE MARKET
Purchase Order Number: task 3039

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS TPHg/BTEX/MTBE	CONTAINER	PRESERVATIVE
	3888-MW1-W	6-9-06	AM	GW	3	9	b
	3888-MW2-W	↓	↓	↓	3		
	3888-MW4-W	↓	↓	↓	3		
	3888-MW5-W	↓	↓	↓	3		
	3888-MW6-W	↓	↓	↓	3		
	3888-QCTB-W	↓	PM	↓	1		

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

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER
Intact/Cold

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
RLD 6-9-06	DM 1240	Laura Mille	6/9/06 1240

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

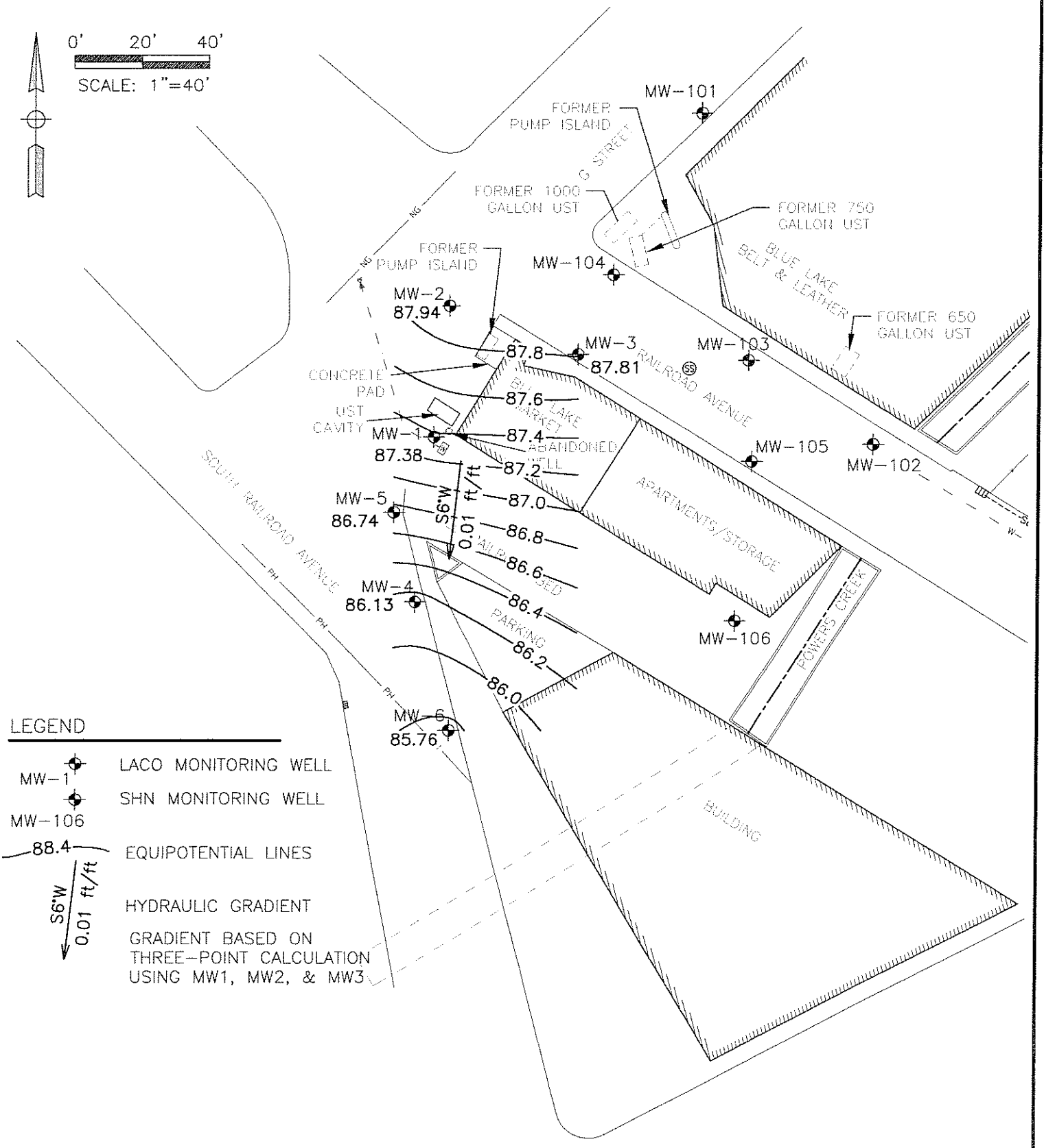
CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

*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 5

LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY RJM	FIGURE 4
	CLIENT PAT FOLKINS	DATE 7/14/06	
	LOCATION BLUE LAKE MARKET	CHECK	JOB NO. 3888.02
	HYDRAULIC GRADIENT MAP (3/30/06)	SCALE 1"=40'	



Aug 17,2006-8:46am
I:\CADFILES\3500\3888 Folkins Blue Lake\dwg\3888-ENV-GMR-20-06\ 3888-ENV-GMR-1006-SITE.dwg