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July 21, 2005

3888.01

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

Attention: Mr. Mark Verhey

Subject: Groundwater Monitoring Report; Second Quarter 2005
Blue Lake Market: 410 Railroad Avenue, Blue Lake, California
LOP No. 12229

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) is pleased to present to the Humboldt County Division of Environmental Health (HCDEH) the results of groundwater monitoring for the second quarter of 2005 on behalf of Pat Folkins.

Please call or email if you have any questions or concerns.

Sincerely,
LACO ASSOCIATES

Caroline Levenda
Staff Geologist

Timothy D. Nelson
PG 7579, Exp. 5/31/07

PROFESSIONAL GEOLOGIST
TIMOTHY DOUGLAS NELSON
No. 7579
Exp. 05/31/07
STATE OF CALIFORNIA

CJL:cs

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 2005

Former Blue Lake Market
410 Railroad Avenue, Blue Lake, California
LOP No. 12229; LACO Project No. 3888.01

## INTRODUCTION

Field activities were conducted concurrently with SHN Consulting Engineers and Geologists (SHN) of Eureka, California on June 1, 2005, in accordance with generally accepted practices at this or similar locations. Please refer to Table A below for the current groundwater monitoring regime and to LACO's *Standard Operating Procedures,* on file at your office, for details. A location and site map are provided as Figures 1 and 2, respectively. A key to abbreviations is provided in Attachment 1. Groundwater monitoring data and laboratory analytical results from the concurrent sampling of the Blue Lake Market monitoring wells was provided by SHN and is included as Attachment 2.

## SITE CHRONOLOGY

- 1990: 550-gallon Underground Storage Tank (UST) removed from the site.
- December 1994: Three monitoring wells and five temporary borings installed.
- July 2001: Five temporary soil borings installed.
- 1994 to present: Groundwater monitoring conducted.

**Table A: Sampling Event for June 1, 2005**

| MONITORING WELL ID | SCREENED INTERVAL (feet) | DTW (feet) | PURGE METHOD | WATER QUALITY PARAMETERS | ANALYTICALS | | SAMPLING SCHEDULE |
|---|---|---|---|---|---|---|---|
| | | | | | ORGANICS | INORGANICS | |
| MW1 | 5-15 | 6.47 | DHP | pH, T, ECw, ORP, DO | TPHg, BTEX, MTBE | NA | Quarterly |
| MW2 | 4-14 | 7.62 | | | | | |
| MW3 | 5-15 | 8.09 | NA | NA | NA | NA | DTW Only |

## HYDRAULIC GRADIENT AND HYDROGEOLOGY

The hydrogeology of the site has been characterized by the presence of interbedded silty clays, clayey silts, and clayey silts with sands. The aquifer hydraulic gradient has historically been in the southern direction. For the current period, the hydraulic gradient, using monitoring wells MW1, MW2, and MW3, was determined to have a S12°W trend and a 2.37 percent slope. The hydraulic gradient is consistent with historical gradient data, which generally trends in the

southern direction.

The potentiometric surface generated using the hydraulic heads of the LACO and SHN monitoring wells, and the groundwater gradient calculated for this sampling event, are illustrated in Figure 3. Current and historic hydraulic head data are presented in Table 2, current and historic hydraulic gradient in Table 1, and a copy of the field sampling data sheets is included as Attachment 3.

## LABORATORY RESULTS

Laboratory analytical results from the June 1, 2005, quarterly sampling event are included below in Table B. Current and historical groundwater analytical data are included in Table 2, and copies of the laboratory analytical reports for this reporting period are included as Attachment 4.

**Table B: Analytical Results for June 1, 2005, Quarterly Sampling Event**

| WELL | TPHg | Benzene (µg/l) | Toluene (µg/l) | Ethylbenzene (µg/l) | Xylenes (µg/l) | MTBE (µg/l) |
|---|---|---|---|---|---|---|
| MW1 | 2,600 | 27 | ND<30 | 18 | 10 | ND<80 |
| MW2 | 970 | 1.1 | ND<15 | 9.0 | 21.1 | ND<3.0 |
| MW3 (sample collected by SHN) | 10,000 | 120 | 480 | 340 | 820 | NA |

## DISCUSSION OF GROUNDWATER RESULTS

The analytical results for the June 1, 2005, quarterly sampling event indicate the presence of Total petroleum hydrocarbons as gasoline (TPHg) in groundwater samples taken from monitoring wells MW1, MW2, and MW3 at concentrations above the California Regional Water Quality Control Board (CRWQCB) water quality objective (WQO) of 50 µg/L. The laboratory noted that the gasoline components for groundwater samples from monitoring wells MW1 and MW2 included peaks in the gasoline range. Benzene, ethylbenzene, and total xylenes were detected in groundwater samples taken from monitoring wells MW1 and MW2 at concentrations above the CRWQCB WQO for benzene of 1 µg/L, and below the CRWQCB WQOs for ethylbenzene and total xylenes of 29 µg/L and 42 µg/L, respectively. Sampling monitoring locations MW1 and MW2 do not exhibit significant benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations, indicating older petroleum hydrocarbons.

The groundwater sample from monitoring well MW3 was collected by SHN. BTEX was detected in the groundwater sample from monitoring well MW3 above the CRWQCB WQOs for each component of BTEX. The laboratory also noted that the groundwater sample taken from monitoring well MW3 appears to be similar to gasoline, but certain peaks are not of the fresh gasoline standard. These comments indicate that the site contains older fuel range material that is weathered and degraded. Additional laboratory notes are included in the case narrative of the laboratory analytical results found in Attachment 4.

## CONCLUSIONS

Groundwater parameters including laboratory analytical results, groundwater elevations, and hydraulic gradient are consistent with that of previous monitoring events.

## RECOMMENDATIONS

- The next quarterly groundwater monitoring event is scheduled for September 2005.
- The approved *Interim Remedial Action Plan and Supplemental Boring Installation Workplan* dated November 2004 is presently in the permitting process.

## LIST OF FIGURES, TABLES, AND ATTACHMENTS

Figure 1: Location Map
Figure 2: Site Map
Figure 3: Hydraulic Gradient Map (June 1, 2005)

Table 1: Historic Hydraulic Gradient Data
Table 2: Monitoring Well Data and Groundwater Analytical Results

Attachment 1: Key to Abbreviations
Attachment 2: Groundwater Sampling: Field Data Sheets
Attachment 3: Laboratory Analytical Report
Attachment 4: SHN Field Data Sheets and Laboratory Report

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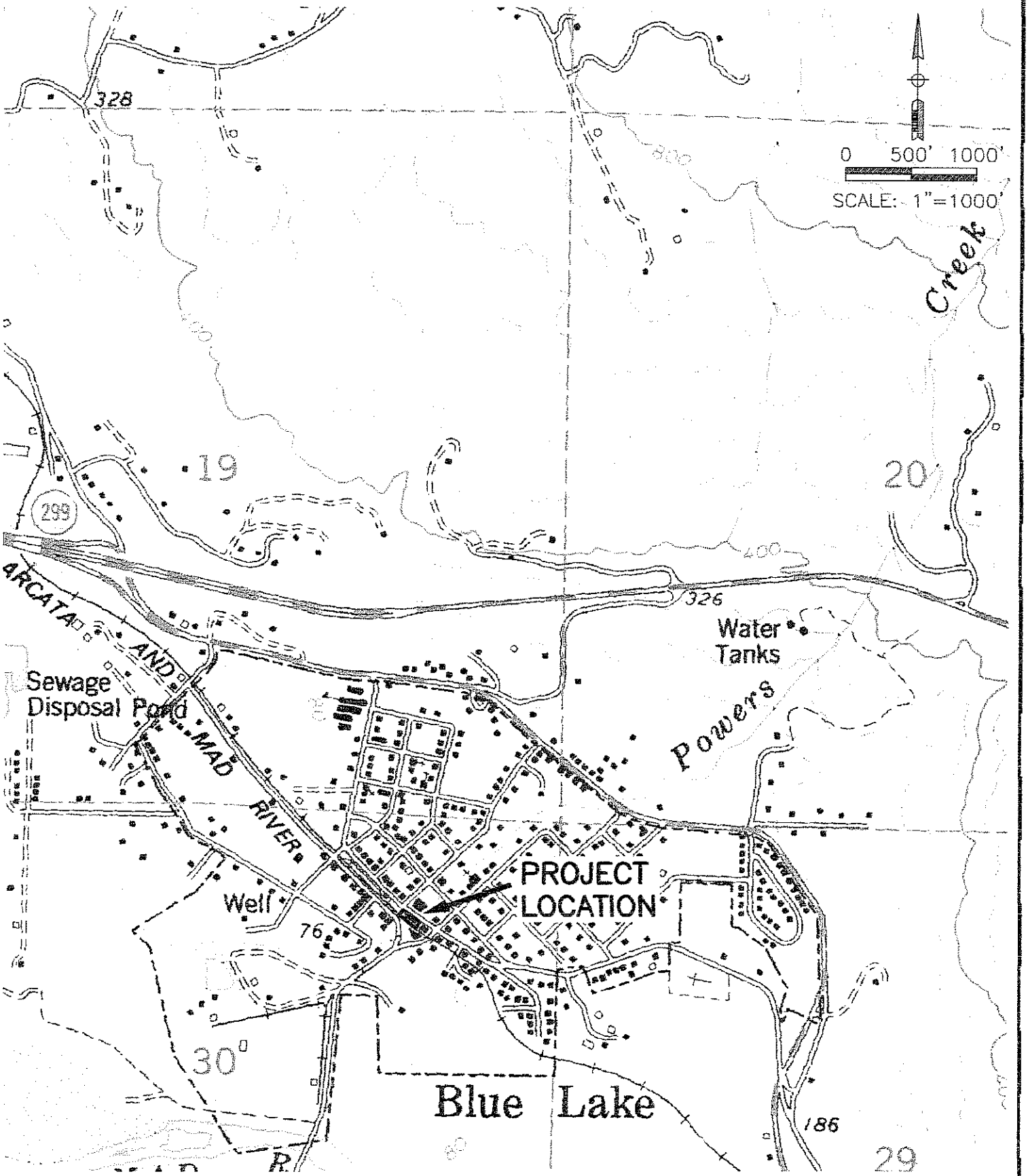
| LACO ASSOCIATES<br>CONSULTING ENGINEERS<br>21 W 4TH ST. EUREKA, CA 95501 (707)443-5054 | PROJECT | GROUNDWATER MONITORING REPORT | BY | BAB | FIGURE |
|---|---|---|---|---|---|
| | CLIENT | PAT FOLKINS | DATE | 6/20/05 | 1 |
| | LOCATION | BLUE LAKE MARKET | CHECK | | JOB NO. |
| | | LOCATION MAP | SCALE | 1"=1000' | 3888.01 |

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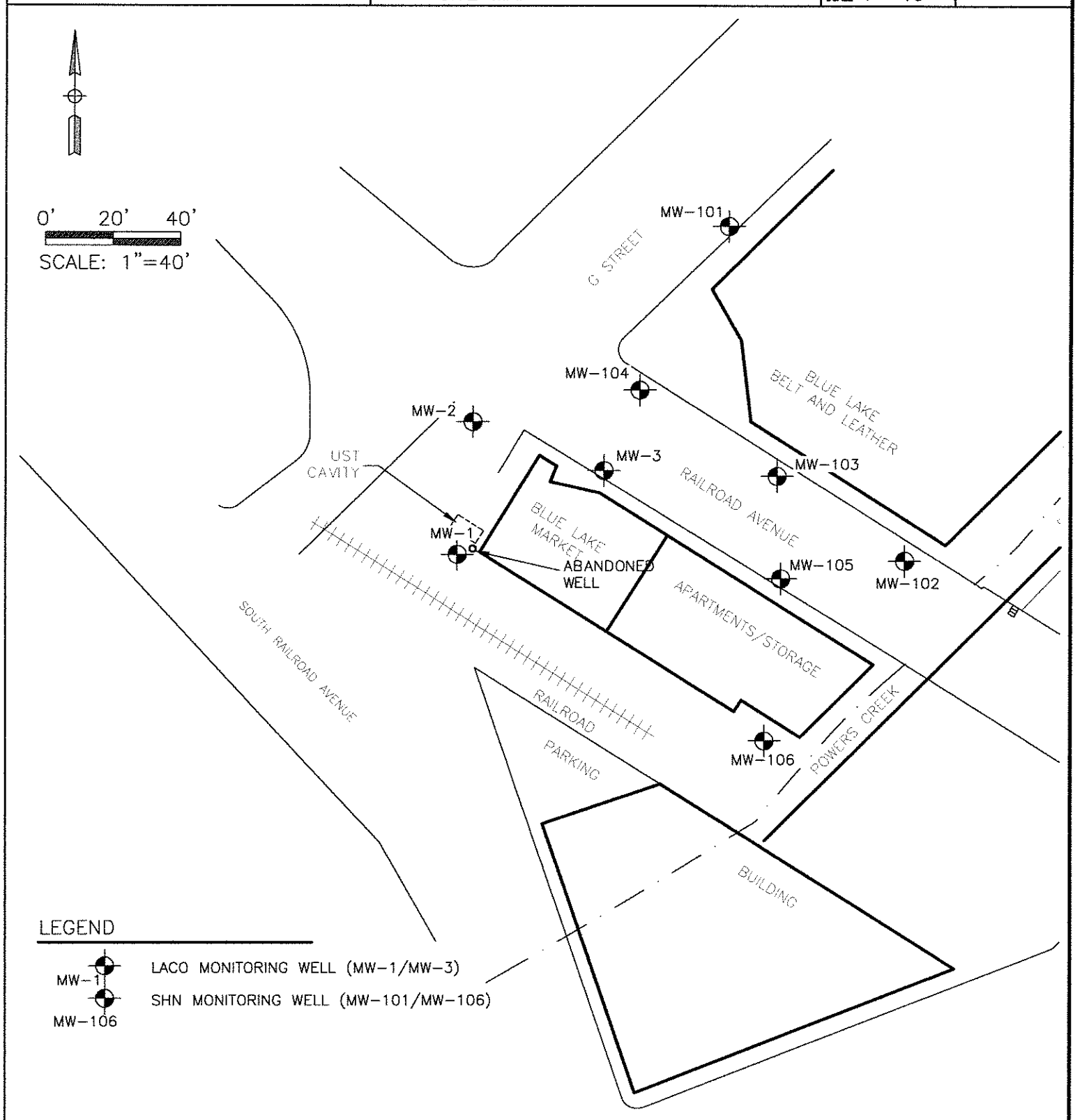
| LACO ASSOCIATES<br>CONSULTING ENGINEERS<br>21 W 4TH ST. EUREKA, CA 95501 (707)443-5054 | PROJECT | GROUNDWATER MONITORING REPORT | BY | BAB | FIGURE |
|---|---|---|---|---|---|
| | CLIENT | PAT FOLKINS | DATE | 6/20/05 | 2 |
| | LOCATION | BLUE LAKE MARKET | CHECK | | JOB NO. |
| | | SITE MAP | SCALE | 1"=40' | 3888.01 |

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| LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054 | PROJECT GROUNDWATER MONITORING REPORT | BY BAB | FIGURE 3 |
|---|---|---|---|
| | CLIENT PAT FOLKINS | DATE 6/20/05 | |
| | LOCATION BLUE LAKE MARKET | CHECK | JOB NO. 3888.01 |
| | HYDRAULIC GRADIENT MAP (6/1/05) | SCALE 1"=40' | |

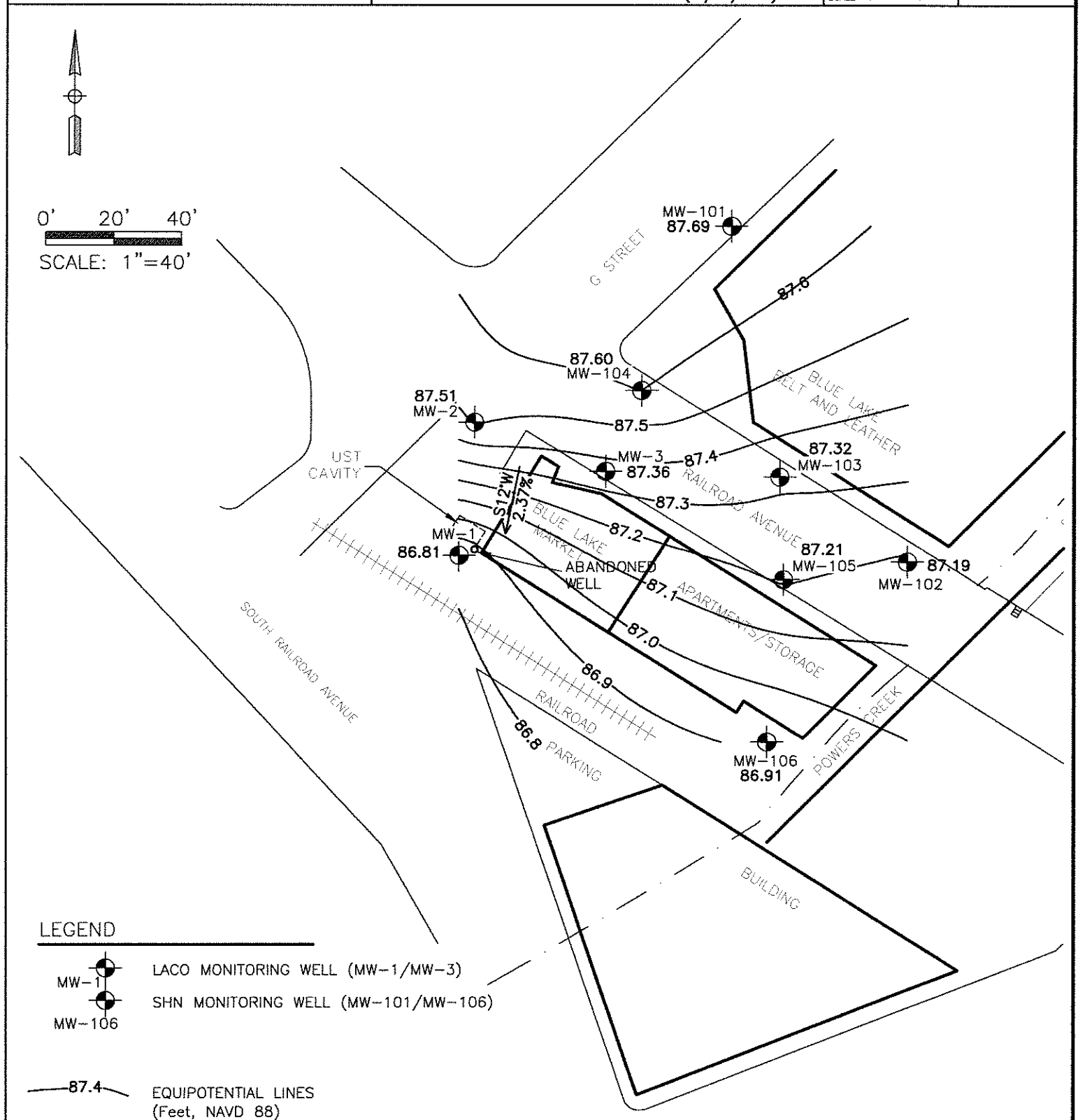


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**TABLE 1: HISTORIC HYDRAULIC GRADIENT DATA**
Blue Lake Market
410 Railroad Avenue, Blue Lake
LOP No. 12229; LACO Project No. 3888.01

| Date | Flow Direction | Gradient Slope |
|---|---|---|
| 12/29/1994 | SSE | 1.90% |
| 1/12/1995 | SSE | 9.50% |
| 2/27/1995 | SW | 3.40% |
| 3/22/1995 | SW | 3.50% |
| 4/12/1995 | S | 1.90% |
| 5/8/1995 | SSW | 2.00% |
| 6/6/1995 | SSW | 2.10% |
| 8/11/1995 | SSE | 3.10% |
| 10/31/1995 | SSE | 3.50% |
| 12/14/1995 | SSE | 2.10% |
| 1/15/1996 | SSE | 1.00% |
| 4/5/1996 | SSW | 1.90% |
| 8/2/1996 | SSE | 2.20% |
| 5/2/1997 | S | 1.90% |
| 8/15/1997 | S | 0.80% |
| 5/13/1998 | S | 1.90% |
| 5/14/1999 | SSW | 1.60% |
| 8/10/1999 | SSE | 0.90% |
| 12/2/1999 | SSW | 1.90% |
| 3/1/2000 | S | 1.52% |
| 6/1/2000 | SSW | 1.59% |
| 9/14/2000 | S | 3.07% |
| 12/01/00 | SE | 8.30% |
| 03/01/01 | SW | 1.20% |
| 06/04/01 | SW | 2.10% |
| 09/07/01 | SW | 2.50% |
| 12/03/01 | S | 2.00% |
| 03/13/02 | SW | 1.60% |
| 06/05/02 | SW | 1.70% |
| 09/03/02 | SE | 2.61% |
| 01/02/03 | SE | 2.30% |
| 03/03/03 | --- | --- |
| 06/02/03 | S3E | 1.80% |
| 09/11/03 | S14E | 1.80% |
| 12/01/03 | S42E | 1.29% |
| 12/01/03 | S22E | 1.20% |
| 03/03/04 | S11E | 1.45% |
| 06/09/04 | S17E | 1.69% |
| 09/02/04 | N52W | 1.19% |
| 12/01/04 | S2W | 1.58% |
| 03/01/05 | S1E | 1.27% |
| 06/01/05 | S12W | 2.37% |

**TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS**
Blue Lake Market
410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.01

| | Groundwater Measurements | | | Analytical Results | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WELL/ Sample Date | Well Head Elevation (feet msl) | Hydraulic Head (feet msl) | Depth to Water (feet) | TPHg (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethylbenzene (µg/l) | Xylenes (µg/l) | MTBE (µg/l) | FOOT NOTES |
| **MW-1** | | | | | | | | | | |
| 12/29/1994 | 89.45 | 84.44 | 5.01 | --- | --- | --- | --- | --- | --- | |
| 1/12/1995 | | 85.35 | 4.10 | 2,000 | 53 | 16 | 42 | 49 | --- | |
| 2/27/1995 | | 83.22 | 6.23 | --- | --- | --- | --- | --- | --- | |
| 3/22/1995 | | 82.97 | 6.48 | --- | --- | --- | --- | --- | --- | |
| 4/12/1995 | | 83.59 | 5.86 | 1,100 | 40 | 25 | 49 | 59 | --- | |
| 5/8/1995 | | 83.11 | 6.34 | --- | --- | --- | --- | --- | --- | |
| 6/6/1995 | | 82.60 | 6.85 | --- | --- | --- | --- | --- | --- | |
| 8/11/1995 | | 78.99 | 10.46 | --- | --- | --- | --- | --- | --- | |
| 10/31/1995 | | 77.30 | 12.15 | 4,100 | 280 | 37 | 63 | 46 | --- | |
| 12/14/1995 | | 84.69 | 4.76 | --- | --- | --- | --- | --- | --- | |
| 1/15/1996 | | 84.97 | 4.48 | --- | --- | --- | --- | --- | --- | |
| 4/5/1996 | | 83.79 | 5.66 | 4,200 | 180 | 180 | 230 | 370 | ND <100 | 2 |
| 8/2/1996 | | 78.54 | 10.91 | --- | --- | --- | --- | --- | --- | |
| 5/2/1997 | | 83.39 | 6.06 | 3,900 | 170 | 50 | 120 | 105 | ND <100 | 1,2 |
| 8/15/1997 | | 78.20 | 11.25 | 4,700 | 610 | 75 | 88 | 81 | ND <100 | 1,2 |
| 5/13/1998 | | 82.71 | 6.74 | 810 | 25 | 5 | 33 | 16 | ND <25 | 1,2 |
| 5/14/1999 | | 82.81 | 6.64 | 2,400 | 220 | 38 | 96 | 57 | 97 | 1 |
| 8/10/1999 | | 78.45 | 11.00 | 6,800 | 850 | 110 | 470 | 298 | ND <200 | 1,2 |
| 12/2/1999 | | 84.40 | 5.05 | 320 | 41 | 4.2 | 15 | 4.9 | ND<40 | 2 |
| 3/1/2000 | | 84.34 | 5.11 | 5,200 | 270 | 28 | 45 | 36 | ND <80 | 1,2 |
| 6/1/2000 | | 82.81 | 6.64 | 5,300 | 330 | 85 | 250 | 183 | ND <200 | 1,2,4 |
| 9/13/2000 | | 77.31 | 12.14 | 4,600 | 690 | 37 | 110 | 25 | ND <140 | 1,2 |
| 12/1/2000 | | 82.00 | 7.45 | 7,900 | 410 | 53 | 210 | 79 | ND<200 | 1,3 |
| 3/1/2001 | | 83.05 | 6.40 | 970 | 88 | 12 | 41 | 20 | ND<50 | 1,2 |
| 6/4/2001 | | 80.39 | 9.06 | 3,700 | 210 | 17 | 160 | 49 | ND<1.3 | 2 |
| 9/7/2001 | | 77.35 | 12.10 | 3,100 | 690 | 30 | 53 | 37 | ND<1.0 | 1 |
| 12/3/2001 | | 84.96 | 4.49 | 71 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 1,4 |
| 3/13/2002 | | 84.52 | 4.93 | 420 | 11 | ND<5.0 | 5.4 | 3.8 | ND<27 | 1,2 |
| 6/5/2002 | | 81.00 | 8.45 | 2,400 | 63 | 32 | 49 | 39 | ND<70 | 1,2 |
| | 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 |
| 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 | 2, 5, 6 |
| 9/11/2003 | | 81.80 | 11.48 | 1,400 | 69 | ND<14 | ND<15 | ND<8.0 | ND<50 | 2 |
| 12/1/2003 | | 87.74 | 5.54 | 1,500 | 38 | ND<20 | 19 | 14 | ND<80 | 2, 5, 6 |
| 3/3/2004 | | 87.60 | 5.68 | 160 | ND<0.50 | ND<0.50 | 0.54 | ND<0.50 | ND<1.0 | 8 |
| 6/9/2004 | | 84.78 | 8.50 | 1,500 | 21 | ND<28 | 33 | 11 | ND<60 | 5, 6 |
| 9/2/2004 | | 81.55 | 11.73 | 1,000 | 37 | ND<18 | ND<5.0 | ND<3.0 | ND<40 | 2, 11 |
| 12/1/2004 | | 86.70 | 6.58 | 330 | 4.9 | ND<4.0 | 1.7 | 0.91 | ND<14 | 2, 11 |
| 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 | 3,6,11 |
| **MW-2** | | | | | | | | | | |
| 12/29/1994 | 91.27 | 85.14 | 6.13 | --- | --- | --- | --- | --- | --- | |
| 1/12/1995 | | 86.19 | 5.08 | 10,000 | 14 | 290 | 250 | 1,670 | --- | |
| 2/27/1995 | | 83.77 | 7.50 | --- | --- | --- | --- | --- | --- | |
| 3/22/1995 | | 83.69 | 7.58 | --- | --- | --- | --- | --- | --- | |
| 4/12/1995 | | 84.27 | 7.00 | 1,400 | 1.0 | 36 | 24 | 310 | --- | |
| 5/8/1995 | | 83.82 | 7.45 | --- | --- | --- | --- | --- | --- | |
| 6/6/1995 | | 83.33 | 7.94 | --- | --- | --- | --- | --- | --- | |
| 8/11/1995 | | 79.71 | 11.56 | --- | --- | --- | --- | --- | --- | |
| 10/31/1995 | | 78.39 | 12.88 | --- | --- | --- | --- | --- | --- | |
| 12/14/1995 | | 85.32 | 5.95 | --- | --- | --- | --- | --- | --- | |
| 1/15/1996 | | 85.29 | 5.98 | --- | --- | --- | --- | --- | --- | |
| 4/5/1996 | | 84.45 | 6.82 | 5,500 | 7.3 | 85 | 92 | 720 | ND <5.0 | |
| 8/2/1996 | | 79.22 | 12.05 | --- | --- | --- | --- | --- | --- | |
| 5/2/1997 | | 84.00 | 7.27 | 5,800 | 12 | 95 | 170 | 860 | ND <50 | 2 |
| 8/15/1997 | | 78.45 | 12.82 | --- | --- | --- | --- | --- | --- | |
| 5/13/1998 | | 83.39 | 7.88 | 3,700 | 5.8 | 28 | 100 | 510 | ND <25 | 1,2 |
| 5/14/1999 | | 83.46 | 7.81 | 9,800 | 21 | 210 | 380 | 1,910 | 13 | 1 |
| 8/10/1999 | | 78.73 | 12.54 | 2,400 | 15 | 40 | 67 | 306 | ND <25 | 1,2 |
| 12/2/1999 | | 85.07 | 6.20 | 14,000 | 33 | 110 | 560 | 2,290 | ND<50 | |
| 3/1/2000 | | 84.84 | 6.43 | 7,000 | 8.6 | 86 | 160 | 820 | ND<30 | 1,3 |
| 6/1/2000 | | 83.45 | 7.82 | 12,000 | 19 | 200 | 290 | 1,630 | ND<30 | 1,3 |
| 9/13/2000 | | 78.46 | 12.81 | --- | --- | --- | --- | --- | --- | |
| 12/1/2000 | | 85.23 | 6.04 | 9,800 | 19 | 120 | 220 | 1,010 | ND<30 | 1,2 |
| 3/1/2001 | | 83.73 | 7.54 | 3,000 | 9 | 43 | 100 | 502 | ND<30 | 3 |
| 6/4/2001 | | 81.22 | 10.05 | 2,300 | 5 | 8.4 | 35 | 229.3 | ND<1.3 | 2 |
| 9/7/2001 | | 78.42 | 12.85 | --- | --- | --- | --- | --- | --- | |
| 12/3/2001 | | 85.48 | 5.79 | 4,700 | 7.3 | 43 | 110 | 650 | ND<1.0 | 1 |
| 3/13/2002 | | 84.83 | 6.44 | 15,000 | 29 | 290 | 640 | 2,600 | ND<70 | 1,2 |
| 6/5/2002 | | 81.95 | 9.32 | 3,400 | 9.8 | 21 | 87 | 253 | ND<11 | 1,2 |
| | 95.13 | | | Monitoring well top of casings resurveyed 7/29/02 | | | | | | |
| 9/3/2002 | | 82.23 | 12.90 | Insufficient water in the well to obtain a sample | | | | | | |
| 1/2/2003 | | 89.35 | 5.78 | 12,000 | ND<25 | 97 | 470 | 1,910 | ND<150 | |
| 3/3/2003 | | 87.76 | 7.37 | 270 | ND<0.50 | ND<5.5 | 2.4 | 12.3 | ND<3.0 | |
| 6/2/2003 | | 87.32 | 7.81 | 860 | 0.76 | 6.6 | 28.0 | 75.0 | ND<3.0 | 5 |
| 9/11/2003 | | 82.47 | 12.66 | 3,900 | 28 | 53 | 190 | 468 | ND<35 | 2, 5 |
| 12/1/2003 | | 88.02 | 7.11 | 6,700 | 14 | 62 | 330 | 1,130 | ND<30 | 3, 5 |
| 3/3/2004 | | 88.18 | 6.95 | 2,200 | 1.2 | 2.4 | 50 | 161 | ND<1.0 | 5 |
| 6/9/2004 | | 85.70 | 9.43 | 970 | ND<3.0 | ND<10 | 22 | 58 | ND<3.0 | 2, 3, 5 |
| 9/2/2004 | | 81.32 | 13.81 | 2,600 | 16 | 26 | 92 | 258 | ND<30 | 3, 10 |
| 12/1/2004 | | 87.25 | 7.88 | 2,200 | 5 | 15 | 110 | 291 | ND<30 | 3, 5 |
| 3/1/2005 | | 87.80 | 7.33 | 1,100 | ND<2.0 | 10 | 19 | 55.9 | ND<3.0 | |
| 6/1/2005 | | 87.51 | 7.62 | 970 | 1.1 | ND<15 | 9.0 | 21.1 | ND<3.0 | 2,11 |

**TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS**
Blue Lake Market
410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.01

| | Groundwater Measurements | | | Analytical Results | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WELL/ Sample Date | Well Head Elevation (feet msl) | Hydraulic Head (feet msl) | Depth to Water (feet) | TPHg (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethylbenzene (µg/l) | Xylenes (µg/l) | MTBE (µg/l) | FOOT NOTES |
| **MW-3** | | | | | | | | | | |
| 12/29/1994 | 91.61 | 84.66 | 6.95 | --- | --- | --- | --- | --- | --- | |
| 1/12/1995 | | 85.38 | 6.23 | 21,000 | 130 | 590 | 170 | 770 | --- | |
| 2/27/1995 | | 84.63 | 6.98 | --- | --- | --- | --- | --- | --- | |
| 3/22/1995 | | 84.53 | 7.08 | --- | --- | --- | --- | --- | --- | |
| 4/12/1995 | | 83.98 | 7.63 | 14,000 | 130 | 430 | 360 | 2,080 | --- | |
| 5/8/1995 | | 83.61 | 8.00 | --- | --- | --- | --- | --- | --- | |
| 6/6/1995 | | 83.09 | 8.52 | --- | --- | --- | --- | --- | --- | |
| 8/11/1995 | | 79.18 | 12.43 | --- | --- | --- | --- | --- | --- | |
| 10/31/1995 | | 77.59 | 14.02 | --- | --- | --- | --- | --- | --- | |
| 12/14/1995 | | 84.89 | 6.72 | --- | --- | --- | --- | --- | --- | |
| 1/15/1996 | | 85.09 | 6.52 | --- | --- | --- | --- | --- | --- | |
| 4/5/1996 | | 84.31 | 7.30 | 11,000 | 120 | 330 | 260 | 980 | ND <500 | 2 |
| 8/2/1996 | | 78.73 | 12.88 | --- | --- | --- | --- | --- | --- | |
| 5/2/1997 | | 83.64 | 7.97 | 7,600 | 46 | 110 | 79 | 459 | ND <100 | 2 |
| 8/15/1997 | | 78.18 | 13.43 | 7,600 | 160 | 440 | 160 | 630 | ND <100 | 2 |
| 5/13/1998 | | 83.16 | 8.45 | 9,100 | 76 | 280 | 280 | 1,390 | ND <500 | 2 |
| 5/14/1999 | | 83.25 | 8.36 | 5,200 | 74 | 160 | 180 | 640 | 140 | |
| 8/10/1999 | | 78.42 | 13.19 | 14,000 | 130 | 310 | 130 | 510 | ND <200 | 1,2 |
| 12/2/1999 | | 84.32 | 7.29 | 6,400 | 87 | 340 | 200 | 810 | ND <300 | 2 |
| 12/2/1999 | | Duplicate | | 5,200 | 80 | 260 | 210 | 710 | ND <400 | 2 |
| 3/1/2000 | | 84.36 | 7.25 | 7,200 | 64 | 390 | 180 | 730 | ND <150 | 1,3 |
| 6/1/2000 | | 83.25 | 8.36 | 7,100 | 73 | 330 | 170 | 630 | ND <140 | 2 |
| 9/13/2000 | | 77.68 | 13.93 | --- | --- | --- | --- | --- | --- | |
| 12/1/2000 | | 83.54 | 8.07 | 13,000 | 79 | 290 | 230 | 720 | ND<150 | 1,3 |
| 3/1/2001 | | 83.43 | 8.18 | 8,500 | 78 | 330 | 200 | 680 | ND<150 | 3 |
| 6/4/2001 | | 80.70 | 10.91 | 4,800 | 14 | 14 | 68 | 103.4 | ND<0.5 | 2 |
| 9/7/2001 | | 77.41 | 14.20 | --- | --- | --- | --- | --- | --- | |
| 12/3/2001 | | 84.83 | 6.78 | 9,900 | 24 | 52 | 210 | 454 | ND<1.0 | 1 |
| 3/13/2002 | | 84.28 | 7.33 | --- | --- | --- | --- | --- | --- | |
| 6/5/2002 | | 81.38 | 10.23 | 8,100 | 28 | ND<140 | 69 | 147 | ND<250 | 1,2 |
| | 95.45 | | | Monitoring well top of casings resurveyed 7/29/02 | | | | | | |
| 9/3/2002 | | 81.57 | 13.88 | Insufficient water in the well to obtain a sample | | | | | | |
| 1/2/2003 | | 88.50 | 6.95 | 23,000 | 390 | 2,700 | 810 | 4,000 | ND<150 | |
| 3/3/2003 | | 87.50 | 7.95 | 7,500 | 32 | ND<180 | 62 | 415 | ND<200 | |
| 6/2/2003 | | 87.03 | 8.42 | 5,600 | 36 | ND<110 | 86 | 180 | ND<170 | 5, 6, 7 |
| 9/11/2003 | | 82.04 | 13.41 | 9,900 | 230 | 210 | 120 | 680 | ND<270 | 5, 6 |
| 12/1/2003 | | 87.62 | 7.83 | 10,000 | 77 | 120 | 200 | 594 | ND<400 | 5, 6 |
| 3/3/2004 | | 87.84 | 7.61 | 4,500 | 7.5 | 12 | 48 | 206 | ND<1.0 | 5 |
| 6/9/2004 | | 85.06 | 10.39 | 4,800 | ND<50 | ND<100 | 55 | 89 | ND<120 | 5, 6 |
| 9/2/2004 | | 81.77 | 13.68 | 4,500 | 59 | 50 | 73 | 109 | ND<140 | 5, 6 |
| 12/1/2004 | | 87.06 | 8.39 | 7,500 | 120 | 340 | 180 | 554 | ND<300 | 3, 4, 5 |
| 3/1/2005 | | 87.61 | 7.84 | 11,000 | 160 | 690 | 370 | 1,010 | --- | 5 |
| 6/1/2005 | | 87.36 | 8.09 | -- | -- | -- | -- | -- | -- | -- |
| 6/1/2005 (SHN Results) | | 87.38 | 8.07 | 10,000 | 120 | 480 | 340 | 820 | -- | -- |
| **MW-101** | | | | | | | | | | |
| 3/1/2001 | 91.89 | 84.30 | 7.59 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 6/4/2001 | | 82.19 | 9.70 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 9/4/2001 | | 78.25 | 13.64 | --- | --- | --- | --- | --- | --- | |
| 12/3/2001 | | 86.05 | 5.84 | 160 | ND<0.5 | ND<4.0 | ND<0.5 | ND<0.5 | ND<3.0 | 1,2 |
| 3/1/2002 | | 84.71 | 7.18 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 6/5/2002 | | 82.76 | 9.13 | 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 | 95.70 | 82.04 | 13.66 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 12/2/2002 | | 82.54 | 13.16 | 64 | ND<0.5 | ND<2.8 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 3/3/2003 | | 88.32 | 7.38 | ND<50 | ND<0.5 | ND<2.8 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 6/2/2003 | | 87.89 | 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 | | 88.39 | 7.31 | 50 | ND<0.50 | ND<1.4 | ND<0.50 | ND<0.50 | --- | 2, 8, 9 |
| 3/3/2004 | | 89.10 | 6.60 | ND<50 | ND<0.50 | ND<1.4 | ND<0.50 | ND<0.50 | --- | |
| 6/1/2004 | | 87.76 | 7.94 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | |
| 9/2/2004 | | 82.30 | 13.40 | 90 | ND<0.50 | ND<3.0 | ND<0.50 | ND<0.50 | --- | 2, 8 |
| 12/1/2004 | | 87.74 | 7.96 | No sample collected | | | | | | |
| 3/1/2005 | | 87.90 | 7.80 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | 12 |
| 6/1/2005 | | 87.69 | 8.01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | -- |
| **MW-102** | | | | | | | | | | |
| 3/1/2001 | 91.19 | 83.27 | 7.92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 6/4/2001 | | 80.76 | 10.43 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 9/4/2001 | | 77.51 | 13.68 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 12/3/2001 | | 84.36 | 6.83 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 3/1/2002 | | 83.63 | 7.56 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 6/5/2002 | | 81.32 | 9.87 | 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 | 94.99 | 81.26 | 13.73 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 12/2/2002 | | 81.78 | 13.21 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 3/3/2003 | | 87.37 | 7.62 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 6/2/2003 | | 86.97 | 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 | | 87.34 | 7.65 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | 9 |
| 3/3/2004 | | 87.76 | 7.23 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | |
| 6/1/2004 | | 86.70 | 8.29 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | |
| 9/2/2004 | | 81.56 | 13.43 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | |
| 12/1/2004 | | 86.97 | 8.02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | |
| 3/1/2005 | | 87.33 | 7.66 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | 12 |
| 6/1/2005 | | 87.19 | 7.80 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | -- |

**TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS**
Blue Lake Market
410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.01

| | Groundwater Measurements | | | Analytical Results | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| WELL/ Sample Date | Well Head Elevation (feet msl) | Hydraulic Head (feet msl) | Depth to Water (feet) | TPHg (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethylbenzene (µg/l) | Xylenes (µg/l) | MTBE (µg/l) | FOOT NOTES |
| **MW-103** | | | | | | | | | | |
| 3/1/2001 | 91.57 | 83.36 | 8.21 | 2,900 | 27 | 37 | 35 | 63 | ND<60 | 1,2 |
| 6/4/2001 | | 80.86 | 10.71 | 3,200 | 42 | ND<80 | 16 | 30.4 | ND<30 | 1,2 |
| 9/4/2001 | | 77.58 | 13.99 | 1,300 | 18 | ND<40 | 8 | 5.4 | ND<32 | 1, 2 |
| 12/3/2001 | | 84.58 | 6.99 | 5,700 | 150 | 160 | 95 | 219 | ND<150 | 1,2 |
| 3/1/2002 | | 83.68 | 7.89 | 5,700 | 100 | 170 | 83 | 380 | ND<150 | 2 |
| 6/5/2002 | | 81.36 | 10.21 | 3,900 | 25 | ND<110 | 35 | 50 | ND<80 | 1,2 |
| | | | | Monitoring well top of casings resurveyed 7/29/02 | | | | | | |
| 9/3/2002 | 95.41 | 81.35 | 14.06 | 1,600 | 21 | ND<35 | 11 | 7.0 | ND<30 | 1,2 |
| 12/2/2002 | | 81.91 | 13.50 | 5,700 | 280 | 110 | 190 | 336 | ND<120 | |
| 3/3/2003 | | 87.44 | 7.97 | 4,400 | 47 | ND<200 | 74 | 229 | --- | |
| 6/2/2003 | | 87.03 | 8.38 | 2,400 | 14 | ND<70 | 15 | 17.3 | ND<30 | 3, 5, 6 |
| 9/11/2003 | | --- | --- | --- | --- | --- | --- | --- | --- | |
| 12/1/2003 | | 87.48 | 7.93 | 3,500 | 49 | ND<90 | 48 | 58.6 | --- | 8 |
| 3/3/2004 | | 87.87 | 7.54 | 5,800 | 100 | 160 | 130 | 343 | --- | |
| 6/1/2004 | | 86.81 | 8.60 | 2,100 | 15 | ND<110 | 32 | 40 | --- | |
| 9/2/2004 | | 81.68 | 13.73 | 1,800 | 36 | 18 | 24 | 28.8 | --- | 5 |
| 12/1/2004 | | 87.09 | 8.32 | 2,400 | 42 | 40 | 41 | 47.4 | --- | 5 |
| 3/1/2005 | | 87.50 | 7.91 | 3,700 | 58 | 82 | 67 | 125 | --- | 5 |
| 6/1/2005 | | 87.32 | 8.09 | 2,700 | 33 | 47 | 46 | 79 | -- | -- |
| **MW-104** | | | | | | | | | | |
| 6/4/2001 | 91.48 | 81.54 | 9.94 | 17,000 | 260 | 320 | 40 | 1,510 | ND<300 | 2 |
| 9/4/2001 | | 77.81 | 13.67 | 9,800 | 120 | ND<200 | 330 | 546 | ND<400 | 2 |
| 12/3/2001 | | 85.33 | 6.15 | 33,000 | 870 | 520 | 1,600 | 4,650 | ND<900 | 1,2 |
| 3/1/2002 | | 84.13 | 7.35 | 20,000 | 400 | 450 | 930 | 2,480 | ND<650 | 2 |
| 6/5/2002 | | 82.08 | 9.40 | 21,000 | 370 | 880 | 890 | 2,610 | ND<600 | 2 |
| | | | | Monitoring well top of casings resurveyed 7/29/02 | | | | | | |
| 9/3/2002 | 95.32 | 81.52 | 13.80 | 7,400 | 100 | ND<200 | 270 | 361 | ND<150 | 1,2 |
| 12/2/2002 | | 82.31 | 13.01 | 13,000 | 260 | 210 | 630 | 1,191 | ND<320 | |
| 3/3/2003 | | 87.81 | 7.51 | 20,000 | 430 | 560 | 950 | 2,330 | --- | |
| 6/2/2003 | | 87.39 | 7.93 | 26,000 | 540 | 1,100 | 1,300 | 3,630 | ND<600 | 6 |
| 9/11/2003 | | --- | --- | --- | --- | --- | --- | --- | --- | |
| 12/1/2003 | | 87.96 | 7.36 | 25,000 | 760 | 520 | 1,300 | 2,700 | --- | 5 |
| 3/3/2004 | | 88.56 | 6.76 | 21,000 | 400 | 460 | 1,000 | 2,010 | --- | |
| 6/1/2004 | | 87.27 | 8.05 | 26,000 | 500 | 680 | 1,200 | 2,420 | --- | |
| 9/2/2004 | | 82.03 | 13.29 | 3,700 | 55 | 49 | 140 | 168 | --- | 5 |
| 12/1/2004 | | 87.31 | 8.01 | 16,000 | 430 | 480 | 990 | 2,090 | --- | 4, 5 |
| 3/1/2005 | | 87.81 | 7.51 | 17,000 | 200 | 350 | 590 | 1,280 | --- | 5 |
| 6/1/2005 | | 87.60 | 7.72 | 13,000 | 130 | 230 | 490 | 1,010 | -- | -- |
| **MW-105** | | | | | | | | | | |
| 6/4/2001 | 91.32 | 80.57 | 10.57 | 430 | ND<0.5 | ND<7.0 | ND<1.2 | ND<0.5 | ND<3.0 | 1,2 |
| 9/4/2001 | | 77.47 | 13.85 | 650 | ND<4.0 | ND<9.0 | ND<1.5 | ND<1.2 | ND<13 | 1,2 |
| 12/3/2001 | | 84.48 | 6.84 | 4,700 | 11 | ND<40 | 18 | 9 | ND<100 | 1,2,4 |
| 3/1/2002 | | 83.63 | 7.69 | 260 | 1.7 | ND<6.0 | ND<0.50 | ND<0.50 | ND<6.0 | 1,2 |
| 6/5/2002 | | 81.31 | 10.01 | 140 | ND<0.50 | ND<3.0 | ND<0.50 | ND<0.50 | ND<3.0 | 1,2 |
| | | | | Monitoring well top of casings resurveyed 7/29/02 | | | | | | |
| 9/3/2002 | 95.15 | 81.24 | 13.91 | 360 | ND<0.50 | ND<10 | ND<1.0 | ND<1.0 | ND<3.0 | 1,2 |
| 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 | 2, 5 |
| 9/11/2003 | | --- | --- | --- | --- | --- | --- | --- | --- | |
| 12/1/2003 | | 87.39 | 7.76 | 1,500 | ND<5.0 | ND<40 | 3.8 | 1.60 | --- | 2, 8 |
| 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 | --- | 2, 8 |
| 12/1/2004 | | 87.00 | 8.15 | 590 | ND<2.0 | ND<18 | 1.3 | 0.73 | --- | 2, 6, 8 |
| 3/1/2005 | | 87.39 | 7.76 | 680 | ND<2.5 | ND<30 | ND<2.0 | ND<1.5 | --- | 2, 6, 8 |
| 6/1/2005 | | 87.21 | 7.94 | 510 | 1.7 | 9.8 | 0.50 | 0.57 | -- | -- |
| **MW-106** | | | | | | | | | | |
| 3/1/2001 | 88.88 | 82.97 | 5.91 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 6/4/2001 | | 80.43 | 8.45 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 9/4/2001 | | 76.96 | 11.92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 12/3/2001 | | 83.92 | 4.96 | ND<50 | ND<0.5 | ND<1.5 | ND<0.5 | ND<0.5 | ND<3.0 | 2 |
| 3/1/2002 | | 83.29 | 5.59 | ND<50 | 0.74 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | |
| 6/5/2002 | | 80.97 | 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 | 92.70 | 80.71 | 11.99 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 12/2/2002 | | 81.27 | 11.43 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 3/3/2003 | | 87.06 | 5.64 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<3.0 | |
| 6/2/2003 | | 86.66 | 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 | | 86.99 | 5.71 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | 9 |
| 3/3/2004 | | 87.46 | 5.24 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | |
| 6/1/2004 | | 86.43 | 6.27 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | |
| 9/2/2004 | | 81.05 | 11.65 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | |
| 12/1/2004 | | 86.72 | 5.98 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | |
| 3/1/2005 | | 87.08 | 5.62 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | 12 |
| 6/1/2005 | | 86.91 | 5.79 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | -- |

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 from monitoring wells MW-101 through MW-106 are provided by SHN.

# Attachment 1

**KEY: LABORATORY ABBREVIATIONS AND NOTATIONS - MONITORING WELL DATA**
Blue Lake Market
410 Railroad Avenue, Blue Lake
LOP No. 17779; LACO Project No. 3888.01

| KEY TO ABBREVIATIONS | | |
|---|---|---|
| AL | -- | action limit; a non-enforceable California drinking water standard; shown in parentheses. |
| 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 |
| 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.

[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.

# Attachment 2

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

# Groundwater Elevations

Job No.: 097309 Name: David R. Paine

Client: CHARLES HUNTZINGER Date: 6-1-05

Location: BLUE LAKE, CA Weather: Partially cloudy

| Sample Location | Time of Reading | Top of Casing Elevation (feet) | Depth To Water (feet) | Water Surface Elevation (feet) |
|---|---|---|---|---|
| MW101 | 0937 | 92.27 | 8.01 | 84.26 |
| MW-102 | 0939 | 91.19 | 7.80 | 83.39 |
| MW-103 | 0943 | 91.57 | 8.09 | 83.48 |
| MW-104 | 0947 | 91.48 | 7.72 | 83.76 |
| MW-105 | 0941 | 91.32 | 7.94 | 83.38 |
| MW-106 | 0934 | 88.88 | 5.79 | 83.09 |
| MW-3 | 0945 | 91.63 | 8.07 | 83.56 |
| OBS-1 | 0949 | 89.45 | 7.65 | 81.80 |
| OBS-2 | 0950 | 91.29 | 7.80 | 83.49 |

REC'D JUN 15 2005

NORTH COAST LABORATORIES LTD.

June 14, 2005

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

Order No.: 0506009
Invoice No.: 50686
PO No.:
ELAP No. 1247-Expires July 2006

Attn: Mike Foget

RE: 097309, Blue Lake Belting and Leather

**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**

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:** *14-Jun-05*

**CLIENT:** SHN Consulting Engineers and Geologists
**Project:** 097309, Blue Lake Belting and Leather
**Lab Order:** 0506009

# CASE NARRATIVE

TPH as Gasoline:
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.

The gasoline values for samples MW-105 and MW-103 include the reported gasoline components in addition to other peaks in the gasoline range.



NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831
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**Date:** 14-Jun-05
**WorkOrder:** 0506009

# ANALYTICAL REPORT

**Client Sample ID:** MW-106 **Received:** 6/1/05 **Collected:** 6/1/05 11:40
**Lab ID:** 0506009-01A

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| Benzene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 95.7 | 85-115 | % Rec | 1.0 | | 6/9/05 |

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 6/9/05 |

**Client Sample ID:** MW-101 **Received:** 6/1/05 **Collected:** 6/1/05 12:15
**Lab ID:** 0506009-02A

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| Benzene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 97.4 | 85-115 | % Rec | 1.0 | | 6/9/05 |

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 6/9/05 |



NORTH COAST LABORATORIES
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**Date:** 14-Jun-05
**WorkOrder:** 0506009

# ANALYTICAL REPORT

**Client Sample ID:** MW-102 **Received:** 6/1/05 **Collected:** 6/1/05 12:50
**Lab ID:** 0506009-03A

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| Benzene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 93.1 | 85-115 | % Rec | 1.0 | | 6/9/05 |

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 6/9/05 |

**Client Sample ID:** MW-105 **Received:** 6/1/05 **Collected:** 6/1/05 13:25
**Lab ID:** 0506009-04A

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| Benzene | 1.7 | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Toluene | 9.8 | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Ethylbenzene | 0.50 | 0.50 | µg/L | 1.0 | | 6/9/05 |
| m,p-Xylene | 0.57 | 0.50 | µg/L | 1.0 | | 6/9/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 98.1 | 85-115 | % Rec | 1.0 | | 6/9/05 |

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | 510 | 50 | µg/L | 1.0 | | 6/9/05 |



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**Date:** 14-Jun-05
**WorkOrder:** 0506009

# ANALYTICAL REPORT

**Client Sample ID:** MW-103 **Received:** 6/1/05 **Collected:** 6/1/05 14:00
**Lab ID:** 0506009-05A

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| Benzene | 33 | 5.0 | µg/L | 10 | | 6/9/05 |
| Toluene | 47 | 5.0 | µg/L | 10 | | 6/9/05 |
| Ethylbenzene | 46 | 5.0 | µg/L | 10 | | 6/9/05 |
| m,p-Xylene | 66 | 5.0 | µg/L | 10 | | 6/9/05 |
| o-Xylene | 13 | 5.0 | µg/L | 10 | | 6/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 102 | 85-115 | % Rec | 10 | | 6/9/05 |

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | 2,700 | 500 | µg/L | 10 | | 6/9/05 |

**Client Sample ID:** MW-3 **Received:** 6/1/05 **Collected:** 6/1/05 14:50
**Lab ID:** 0506009-06A

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| Benzene | 120 | 25 | µg/L | 50 | | 6/10/05 |
| Toluene | 480 | 250 | µg/L | 500 | | 6/9/05 |
| Ethylbenzene | 340 | 25 | µg/L | 50 | | 6/10/05 |
| m,p-Xylene | 650 | 25 | µg/L | 50 | | 6/10/05 |
| o-Xylene | 170 | 25 | µg/L | 50 | | 6/10/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 87.0 | 85-115 | % Rec | 500 | | 6/9/05 |

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | 10,000 | 2,500 | µg/L | 50 | | 6/10/05 |



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

**Date:** 14-Jun-05
**WorkOrder:** 0506009

# ANALYTICAL REPORT

**Client Sample ID:** MW-104 **Received:** 6/1/05 **Collected:** 6/1/05 15:00
**Lab ID:** 0506009-07A

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| Benzene | 130 | 25 | µg/L | 50 | | 6/10/05 |
| Toluene | 230 | 25 | µg/L | 50 | | 6/10/05 |
| Ethylbenzene | 490 | 25 | µg/L | 50 | | 6/10/05 |
| m,p-Xylene | 870 | 500 | µg/L | 1,000 | | 6/10/05 |
| o-Xylene | 140 | 25 | µg/L | 50 | | 6/10/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 104 | 85-115 | % Rec | 1,000 | | 6/10/05 |

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | 13,000 | 2,500 | µg/L | 50 | | 6/10/05 |



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North Coast Laboratories, Ltd.

**Date:** 14-Jun-05

**CLIENT:** SHN Consulting Engineers and Geologists
**Work Order:** 0506009
**Project:** 097309, Blue Lake Belting and Leather

# QC SUMMARY REPORT

## Method Blank

Sample ID **MB-6/8/05** Batch ID: **R35279** Test Code: **BTXEW** Units: **µg/L** Analysis Date **6/9/05 11:08:09 AM** Prep Date
Client ID: Run ID: **ORGC8_050608B** SeqNo: **509723**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 0.880 | 0.10 | 1.00 | 0 | 88.0% | 85 | 115 | 0 | | | |

Sample ID **MB-6/8/05** Batch ID: **R35277** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **6/9/05 11:08:09 AM** Prep Date
Client ID: Run ID: **ORGC8_050608A** SeqNo: **509695**

| 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: 14-Jun-05

**CLIENT:** SHN Consulting Engineers and Geologists
**Work Order:** 0506009
**Project:** 097309, Blue Lake Belting and Leather

# QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-05374** Batch ID: **R35279** Test Code: **BTXEW** Units: **µg/L** Analysis Date **6/8/05 2:29:41 PM** Prep Date
Client ID: Run ID: **ORGC8_050608B** SeqNo: **509720**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 4.958 | 0.50 | 5.00 | 0 | 99.2% | 85 | 115 | 0 | | | |
| Toluene | 5.024 | 0.50 | 5.00 | 0 | 100% | 85 | 115 | 0 | | | |
| Ethylbenzene | 4.986 | 0.50 | 5.00 | 0 | 99.7% | 85 | 115 | 0 | | | |
| m,p-Xylene | 10.01 | 0.50 | 10.0 | 0 | 100% | 85 | 115 | 0 | | | |
| o-Xylene | 5.016 | 0.50 | 5.00 | 0 | 100% | 85 | 115 | 0 | | | |
| Cis-1,2-Dichloroethylene | 1.04 | 0.10 | 1.00 | 0 | 104% | 85 | 115 | 0 | | | |

Sample ID **LCSD-05374** Batch ID: **R35279** Test Code: **BTXEW** Units: **µg/L** Analysis Date **6/8/05 3:05:07 PM** Prep Date
Client ID: Run ID: **ORGC8_050608B** SeqNo: **509721**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 4.875 | 0.50 | 5.00 | 0 | 97.5% | 85 | 115 | 4.96 | 1.69% | 15 | |
| Toluene | 4.945 | 0.50 | 5.00 | 0 | 98.9% | 85 | 115 | 5.02 | 1.59% | 15 | |
| Ethylbenzene | 4.912 | 0.50 | 5.00 | 0 | 98.2% | 85 | 115 | 4.99 | 1.50% | 15 | |
| m,p-Xylene | 9.846 | 0.50 | 10.0 | 0 | 98.5% | 85 | 115 | 10.0 | 1.63% | 15 | |
| o-Xylene | 4.948 | 0.50 | 5.00 | 0 | 99.0% | 85 | 115 | 5.02 | 1.36% | 15 | |
| Cis-1,2-Dichloroethylene | 1.15 | 0.10 | 1.00 | 0 | 115% | 85 | 115 | 1.04 | 10.1% | 15 | |

Sample ID **LCS-05375** Batch ID: **R35277** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **6/8/05 4:16:05 PM** Prep Date
Client ID: Run ID: **ORGC8_050608A** SeqNo: **509692**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | 548.6 | 50 | 500 | 0 | 110% | 81 | 126 | 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:** SHN Consulting Engineers and Geologists
**Work Order:** 0506009
**Project:** 097309, Blue Lake Belting and Leather

# QC SUMMARY REPORT
## Laboratory Control Spike Duplicate

Sample ID **LCSD-05375** Batch ID: **R35277** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **6/8/05 4:51:37 PM** Prep Date

Client ID: Run ID: **ORGC8_050608A** SeqNo: **509693**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | 548.2 | 50 | 500 | 0 | 110% | 81 | 126 | 549 | 0.0667% | 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

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P. 1 of 1

# Chain of Custody

LABORATORY NUMBER: 0506009

Attention: Mike Foget
Results & Invoice to: SHN
Address: 812 West Wabash Avenue
Eureka, CA 95501
Phone: 441-8855
Copies of Report to:
Sampler (Sign & Print): David R. Paine David R. Paine

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 and Leather
Purchase Order Number:

| LAB ID | SAMPLE ID | DATE | TIME | MATRIX* | ANALYSIS: TDHG / BTEX | CONTAINER: 9 | PRESERVATIVE: b |
|---|---|---|---|---|---|---|---|
| | MW-106 | 6/1/05 | 1140 | GW | X | | |
| | MW-101 | ↓ | 1215 | ↓ | X | | |
| | MW-102 | | 1250 | | X | | |
| | MW-105 | | 1325 | | X | | |
| | MW-103 | | 1400 | | X | | |
| | MW-3 | | 1450 | | X | | |
| | MW-104 | ↓ | 1500 | ↓ | X | | |

**SAMPLE CONDITION/SPECIAL INSTRUCTIONS**
EDF
Global ID# T0602300012
No MTBE on Report
Cooler temp 14.4°C

| RELINQUISHED BY (Sign & Print) | DATE/TIME | RECEIVED BY (Sign) | DATE/TIME |
|---|---|---|---|
| David R. Paine David R. Paine | 1536 6/1/05 | K. Thompson | 6/1/05 1536 |

**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 3

LAGO 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
Date: 6-1-05
Golbal ID No.: T0602300170
PM: TDN

Tech: SJD
Mob/Demob time: .50 / .25
Travel time: 1.0
Time on site: 11:30
Time off site: 1:05
Mileage: 34

| WELL No.: | MW1 | | MW2 | | MW3 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| DIAMETER (in) | 2.0 | | 2.0 | | 2.0 | | | | | |
| SCREENED INTERVAL (ft) | 5-15 | | 4-14 | | 5-15 | | | | | |
| DEPTH TO WATER (ft) | 6.47 | | 7.62 | | 8.09 | | | | | |
| | 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) | -64 | -49 | -45 | -31 | | | | | | |
| FIELD INTRINSICS: DO (mg/L) | 0.93 | 0.43 | 0.87 | 0.30 | | | | | | |
| FIELD INTRINSICS: OTHER (units) | — | | — | | | | | | | |
| PURGE: TIME | 11:58 | 12:06 | 12:30 | 12:38 | | | | | | |
| PURGE: METHOD (DHP/CB/B) | DHP | | DHP | | | | | | | |
| PURGE: RATE (Lpm) | 0.22 | | 0.20 | | | | | | | |
| PURGE: VOLUME (L) | 1.80 | | 1.60 | | | | | | | |
| PURGE: COLOR | CLEAR | CLEAR | CLEAR | CLEAR | | | | | | |
| PURGE: ODOR | MED. SULFUR/RUBBER | | LIGHT RUBBER/FISH | | | | | | | |
| PURGE: INTAKE DEPTH (FEET) | 10.0 | | 10.0 | | | | | | | |
| SAMPLE: TIME | 12:07 | | 12:39 | | | | | | | |
| SAMPLE: METHOD (DHP/CB/B) | DHP | | DHP | | | | | | | |
| SAMPLE: ANALYTES | TPHg/BTEX | | TPHg/BTEX | | MEASURE ONLY | | | | | |
| SAMPLE: TOTAL DRAWDOWN (FEET) | 0.55 | | 0.52 | | | | | | | |
| SAMPLE: REMARKS | — | | — | | | | | | | |
| WELL CONDITION | ALL THREE BOLT HOLES STRIPPED | | good | | good | | | | | |
| WASTE DRUMS | ONE DOT DRUM ONSITE | | | | SOIL 1/4 FULL | | | | | |

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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

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

Project Name: BLUE LAKE MARKET
Project No.: 3888.01
Tech: SJD
Date: 6-1-05

| WELL ID: | METER ACCURACY RANGE | | | | |
|---|---|---|---|---|---|
| MW1 | +/- 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) |
| 12:00 | ~ | ~ | ~ | -59 | 0.75 |
| 12:02 | ~ | ~ | ~ | -55 | 0.45 |
| 12:04 | ~ | ~ | ~ | -49 | 0.47 |
| 12:06 | ~ | ~ | ~ | -49 | 0.43 |
| 12:08 | | | | | |

WELL ID: MW2

| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
|---|---|---|---|---|---|
| 12:32 | ~ | ~ | ~ | -32 | 0.77 |
| 12:34 | ~ | ~ | ~ | -30 | 0.54 |
| 12:36 | ~ | ~ | ~ | -31 | 0.37 |
| 12:38 | ~ | ~ | ~ | -31 | 0.30 |

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: BLUE LAKE MARKET

Project No.: 3888.01

Tech: SJD

Date: 6-1-05

| WELL ID: MW1 | | WELL ID: MW2 | | WELL ID: MW3 | | WELL ID: | | WELL ID: | | WELL ID: | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) |
| 11:33 | 6.47 | 11:36 | 7.62 | 11:39 | 8.09 | | | | | | |
| 11:43 | 6.47 | 11:46 | 7.62 | 11:49 | 8.09 | | | | | | |

| 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) |

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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: TIM NELSON-LACO
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—$Na_2S_2O_4$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

## PROJECT INFORMATION

Project Number: 3888.01
Project Name: BLUE LAKE MARKET
Purchase Order Number: task 3023

| LAB ID | SAMPLE ID | DATE | TIME | MATRIX* | ANALYSIS: TPHg/BTEX | CONTAINER: 9 | PRESERVATIVE: b |
|---|---|---|---|---|---|---|---|
| | 3888-MW1-W | 6-1-05 | Am | GW | 3 | | |
| | 3888-MW2-W | ↓ | ↓ | ↓ | 3 | | |
| | 3888-QCTB-W | | | | 1 | | |

**SAMPLE CONDITION/SPECIAL INSTRUCTIONS**
GEOTRACKER
cold, intact

| RELINQUISHED BY (Sign & Print) | DATE/TIME | RECEIVED BY (Sign) | DATE/TIME |
|---|---|---|---|
| STEVE DAVIS | 6-1-05 1:55 p.m. | | 6/1/05 1355 |

**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.

JUN 15 2005

JG

DRG

TDN 6-15-05

June 14, 2005

Pvt. cust. paying on pickup

,

Attn: Pat Folkins

RE: 3888.01, BLUE LAKE MARKET

Order No.: 0506005
Invoice No.: 50685
PO No.: TASK 3023
ELAP No. 1247-Expires July 2006

**SAMPLE IDENTIFICATION**

| Fraction | Client Sample Description |
|---|---|
| 01A | 3888-MW1-W |
| 02A | 3888-MW2-W |
| 03A | 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**

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: *14-Jun-05*

**CLIENT:** Pvt. cust. paying on pickup
**Project:** 3888.01, BLUE LAKE MARKET
**Lab Order:** 0506005

# CASE NARRATIVE

TPH as Gasoline:
The gasoline values for samples 3888-MW1-W and 3888-MW2-W include the reported gasoline components in addition to other peaks in the gasoline range.

BTEX:
Some reporting limits were raised for sample 3888-MW2-W due to matrix interference.

Sample 3888-MW1-W was diluted and the reporting limits raised additionally due to matrix interference.

Sample 3888-MW1-W was reported as ND with a dilution due to matrix interference.



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**Date:** 14-Jun-05
**WorkOrder:** 0506005

# ANALYTICAL REPORT

**Client Sample ID:** 3888-MW1-W **Received:** 6/1/05 **Collected:** 6/1/05 0:00
**Lab ID:** 0506005-01A

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| MTBE | ND | 80 | µg/L | 10 | | 6/10/05 |
| Benzene | 27 | 5.0 | µg/L | 10 | | 6/10/05 |
| Toluene | ND | 30 | µg/L | 10 | | 6/10/05 |
| Ethylbenzene | 18 | 5.0 | µg/L | 10 | | 6/10/05 |
| m,p-Xylene | 10 | 5.0 | µg/L | 10 | | 6/10/05 |
| o-Xylene | ND | 5.0 | µg/L | 10 | | 6/10/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 102 | 85-115 | % Rec | 10 | | 6/10/05 |

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | 2,600 | 500 | µg/L | 10 | | 6/10/05 |

**Client Sample ID:** 3888-MW2-W **Received:** 6/1/05 **Collected:** 6/1/05 0:00
**Lab ID:** 0506005-02A

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 6/9/05 |
| Benzene | 1.1 | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Toluene | ND | 15 | µg/L | 1.0 | | 6/9/05 |
| Ethylbenzene | 9.0 | 5.0 | µg/L | 10 | | 6/9/05 |
| m,p-Xylene | 17 | 0.50 | µg/L | 1.0 | | 6/9/05 |
| o-Xylene | 4.1 | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 105 | 85-115 | % Rec | 1.0 | | 6/9/05 |

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | 970 | 50 | µg/L | 1.0 | | 6/9/05 |



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Date: 14-Jun-05
WorkOrder: 0506005

# ANALYTICAL REPORT

**Client Sample ID:** 3888-QCTB-W **Received:** 6/1/05 **Collected:** 6/1/05 0:00
**Lab ID:** 0506005-03A

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 6/9/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 6/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 98.6 | 85-115 | % Rec | 1.0 | | 6/9/05 |

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

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 6/9/05 |



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North Coast Laboratories, Ltd.

**Date:** 14-Jun-05

**CLIENT:** Pvt. cust. paying on pickup
**Work Order:** 0506005
**Project:** 3888.01, BLUE LAKE MARKET

# QC SUMMARY REPORT

## Method Blank

Sample ID: **MB-6/8/05** Batch ID: **R35279** Test Code: **BTXEW** Units: **µg/L** Analysis Date: **6/9/05 11:08:09 AM** Prep Date:

Client ID: Run ID: **ORGC8_050608B** SeqNo: **509723**

| 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 | 0.880 | 0.10 | 1.00 | 0 | 88.0% | 85 | 115 | 0 | | | |

Sample ID: **MB-6/8/05** Batch ID: **R35277** Test Code: **TPHCGW** Units: **µg/L** Analysis Date: **6/9/05 11:08:09 AM** Prep Date:

Client ID: Run ID: **ORGC8_050608A** SeqNo: **509695**

| 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: 14-Jun-05

**CLIENT:** Pvt. cust. paying on pickup
**Work Order:** 0506005
**Project:** 3888.01, BLUE LAKE MARKET

# QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: **LCS-05374** Batch ID: **R35279** Test Code: **BTXEW** Units: **µg/L** Analysis Date: **6/8/05 2:29:41 PM** Prep Date:
Client ID: Run ID: **ORGC8_050608B** SeqNo: **509720**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MTBE | 41.11 | 3.0 | 40.0 | 0 | 103% | 85 | 115 | 0 | | | |
| Benzene | 4.958 | 0.50 | 5.00 | 0 | 99.2% | 85 | 115 | 0 | | | |
| Toluene | 5.024 | 0.50 | 5.00 | 0 | 100% | 85 | 115 | 0 | | | |
| Ethylbenzene | 4.986 | 0.50 | 5.00 | 0 | 99.7% | 85 | 115 | 0 | | | |
| m,p-Xylene | 10.01 | 0.50 | 10.0 | 0 | 100% | 85 | 115 | 0 | | | |
| o-Xylene | 5.016 | 0.50 | 5.00 | 0 | 100% | 85 | 115 | 0 | | | |
| Cis-1,2-Dichloroethylene | 1.04 | 0.10 | 1.00 | 0 | 104% | 85 | 115 | 0 | | | |

Sample ID: **LCSD-05374** Batch ID: **R35279** Test Code: **BTXEW** Units: **µg/L** Analysis Date: **6/8/05 3:05:07 PM** Prep Date:
Client ID: Run ID: **ORGC8_050608B** SeqNo: **509721**

| 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 | 41.1 | 1.25% | 15 | |
| Benzene | 4.875 | 0.50 | 5.00 | 0 | 97.5% | 85 | 115 | 4.96 | 1.69% | 15 | |
| Toluene | 4.945 | 0.50 | 5.00 | 0 | 98.9% | 85 | 115 | 5.02 | 1.59% | 15 | |
| Ethylbenzene | 4.912 | 0.50 | 5.00 | 0 | 98.2% | 85 | 115 | 4.99 | 1.50% | 15 | |
| m,p-Xylene | 9.846 | 0.50 | 10.0 | 0 | 98.5% | 85 | 115 | 10.0 | 1.63% | 15 | |
| o-Xylene | 4.948 | 0.50 | 5.00 | 0 | 99.0% | 85 | 115 | 5.02 | 1.36% | 15 | |
| Cis-1,2-Dichloroethylene | 1.15 | 0.10 | 1.00 | 0 | 115% | 85 | 115 | 1.04 | 10.1% | 15 | |

Sample ID: **LCS-05375** Batch ID: **R35277** Test Code: **TPHCGW** Units: **µg/L** Analysis Date: **6/8/05 4:16:05 PM** Prep Date:
Client ID: Run ID: **ORGC8_050608A** SeqNo: **509692**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | 548.6 | 50 | 500 | 0 | 110% | 81 | 126 | 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:** Pvt. cust. paying on pickup
**Work Order:** 0506005
**Project:** 3888.01, BLUE LAKE MARKET

# QC SUMMARY REPORT

## Laboratory Control Spike Duplicate

Sample ID: **LCSD-05375** Batch ID: **R35277** Test Code: **TPHCGW** Units: **µg/L** Analysis Date: **6/8/05 4:51:37 PM** Prep Date:

Client ID: Run ID: **ORGC8_050608A** SeqNo: **509693**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHC Gas (C6-C14) | 548.2 | 50 | 500 | 0 | 110% | 81 | 126 | 549 | 0.0667% | 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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707-822-4649 Fax 707-822-6831

# Chain of Custody

LABORATORY NUMBER: 0506005

Attention: PAT FOLKINS
Results & Invoice to:
Address: 2020 ARDAGH COURT
EUREKA, CA 95503
Phone:
Copies of Report to: TIM NELSON-LACO
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:

**PROJECT INFORMATION**
Project Number: 3888.01
Project Name: BLUE LAKE MARKET
Purchase Order Number: task 3023

| LAB ID | SAMPLE ID | DATE | TIME | MATRIX* | CONTAINER | PRESERVATIVE | ANALYSIS: TPHg/BTEX |
|---|---|---|---|---|---|---|---|
| | 3888-MW1-W | 6-1-05 | Am | GW | 9 | b | 3 |
| | 3888-MW2-W | ↓ | ↓ | ↓ | 9 | b | 3 |
| | 3888-QCTB-W | | | | 9 | b | 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
cold/intact

| RELINQUISHED BY (Sign & Print) | DATE/TIME | RECEIVED BY (Sign) | DATE/TIME |
|---|---|---|---|
| STEVE DAVIS | 6-1-05 1:55pm | | 6/1/05 1355 |

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**