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johnrsutton@mindspring.com

# THE SUTTON GROUP

SOILS, FOUNDATIONS, DRAINAGE, SLOPES, CONTAINMENTS  
CIVIL, GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING

3708 Mount Diablo Blvd  
Suite 215  
Lafayette, CA, 94549

September 8, 2004

Mr. Michael Cortez  
Oro Loma Sanitary District  
2600 Grant Avenue  
San Lorenzo, 94580

**Results of 8<sup>th</sup> Round of Quarterly Sampling of Ground Water Monitoring Wells  
Sites of Former Gasoline and Diesel Tanks  
2600 Grant Ave., San Lorenzo, CA  
OLSD PO No. 4911, LOP Site No. RO0000288 ST ID 1996**

Dear Mr. Cortez:

We attach results for the most recent round of quarterly sampling of the ground water monitoring wells, conducted on July 29, 2004. This is the 8<sup>th</sup> quarterly sampling of the five wells at the former gasoline tank site and the one well at the former diesel tank site. Review of groundwater level measurements around the former gasoline tank site indicated that the water level in MW-4 being lower than in MW-5, which was different from all previous readings. The groundwater elevations in the 5 wells were checked on September 3<sup>rd</sup>, which confirmed the readings. In comparison of levels in previous months and previous years, it is noted that the elevations are all about one half foot higher than a year earlier (4<sup>th</sup> quarter) and about the same as those of the 5<sup>th</sup> quarter, last fall, and that the water level in MW-5 had fallen less than historically for the season. The gradient direction has turned several degrees but does not change our model.

This work has been performed in accordance with the Work Plan that was approved by Alameda County Health Care Agency's Environmental Protection Division (ACEP) in their letter dated April 18, 2003.

Figure 1 is a plan of the District's facilities at the foot of Grant Avenue in San Lorenzo that shows the relative locations of the former gasoline and diesel tanks to the sewage treatment plant and the District's offices. Figure 2 is a plan of the Service Center area, which was the site of the former gasoline tank. Table 1 summarizes the ground water elevation data collected and their history.

**Sampling Results**  
**Gasoline Tank Area**

On July 29, 2004, water samples were collected from all 5 wells in accordance with the approved work plan. Conditions of the wellheads appeared to have not

changed from the previous sampling. The wells were each purged of three well volumes and the samples collected using dedicated bailers.

The five wells were each sampled and analyzed for gasoline, BTEX and MTBE. Table 2 is a summary of the results of the current round of analytical results for hydrocarbons. By the continued absence of gasoline and BTEX presence beyond the barrier trenches the results continue to demonstrate the effectiveness of the trench system in controlling water migration. The laboratory report is appended, as are sampling event field sheets. Table 2A is a compilation of all test results for gasoline-related hydrocarbons in the gasoline tank area since well sampling began in 1999.

#### **Diesel Tank Area**

The monitoring well at the location of the former diesel tank was also sampled. This well was installed and first sampled in March, 1996. The monitoring well location is shown on Figure 1.

The well was purged and sampled, and analyzed for TPH as diesel. The presence of 90µg/l is similar to the reading last quarter (87µg/l) and substantially lower than the initial 1996 reading. Table 3 is a tabulation of all sample results for this well. Historically, the well has no detection of BTEX.

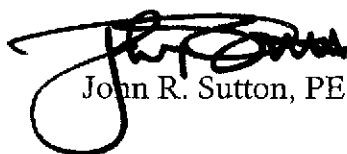
#### **Future Sampling**

The wells in the former gasoline tank area continue to indicate that the contamination is contained on the District's property by the barrier trenches. The wells beyond the barrier continue to show no detection of gasoline or BTEX. The next sampling is scheduled for October 2004.

We appreciate the opportunity to be of continued service to The District. Please call me if you have questions or if I can assist you in any other way.

Yours truly,

**THE SUTTON GROUP**

  
John R. Sutton, PE



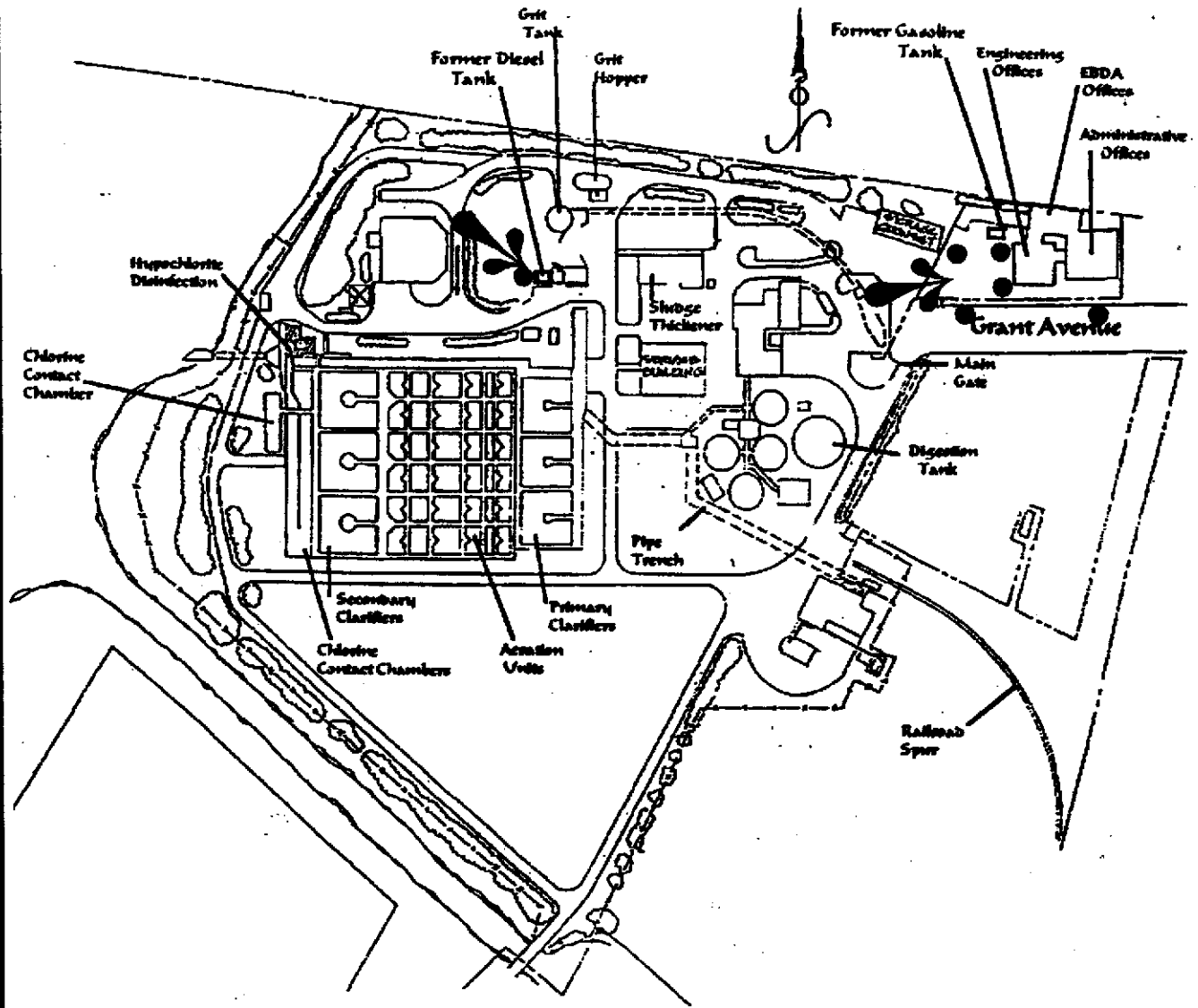
#### **Attachments:**

- |          |   |
|----------|---|
| Figure 1 | Site Plan   |
| Figure 2 | Well Location Plan, Former Gasoline Tank Area           |
| Table 1  | Ground Water Elevations, Former Gasoline Tank Area      |
| Table 2  | Summary of Current Water Sample Analyses, Gas Tank Area |

Table 2A Cumulative Summary of Water Sample Analyses, Gas Tank Area  
Table 3 Summary of Water Sample Analyses, Former Diesel Tank Area  
Analytical Laboratory Reports  
Field sampling reports

Two Copies Sent

One copy sent to Ms. Eva Chu at Alameda County Health Dept.



**SITE PLAN**

● Monitoring Well Location

SCALE 1 IN. TO 250 FEET, APPROX

**THE SUTTON GROUP.**  
 3708 Mount Diablo Blvd, Ste 215  
 Lafayette, CA, 94549  
 925 284-4208

**SITE PLAN**  
**ORO LOMA SANITARY DISTRICT**  
 San Lorenzo, California

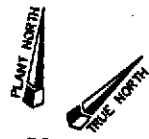
PROJECT No3022.10

**FIGURE 1**

5/21/03

8th Quarterly Sampling, Summer 2004

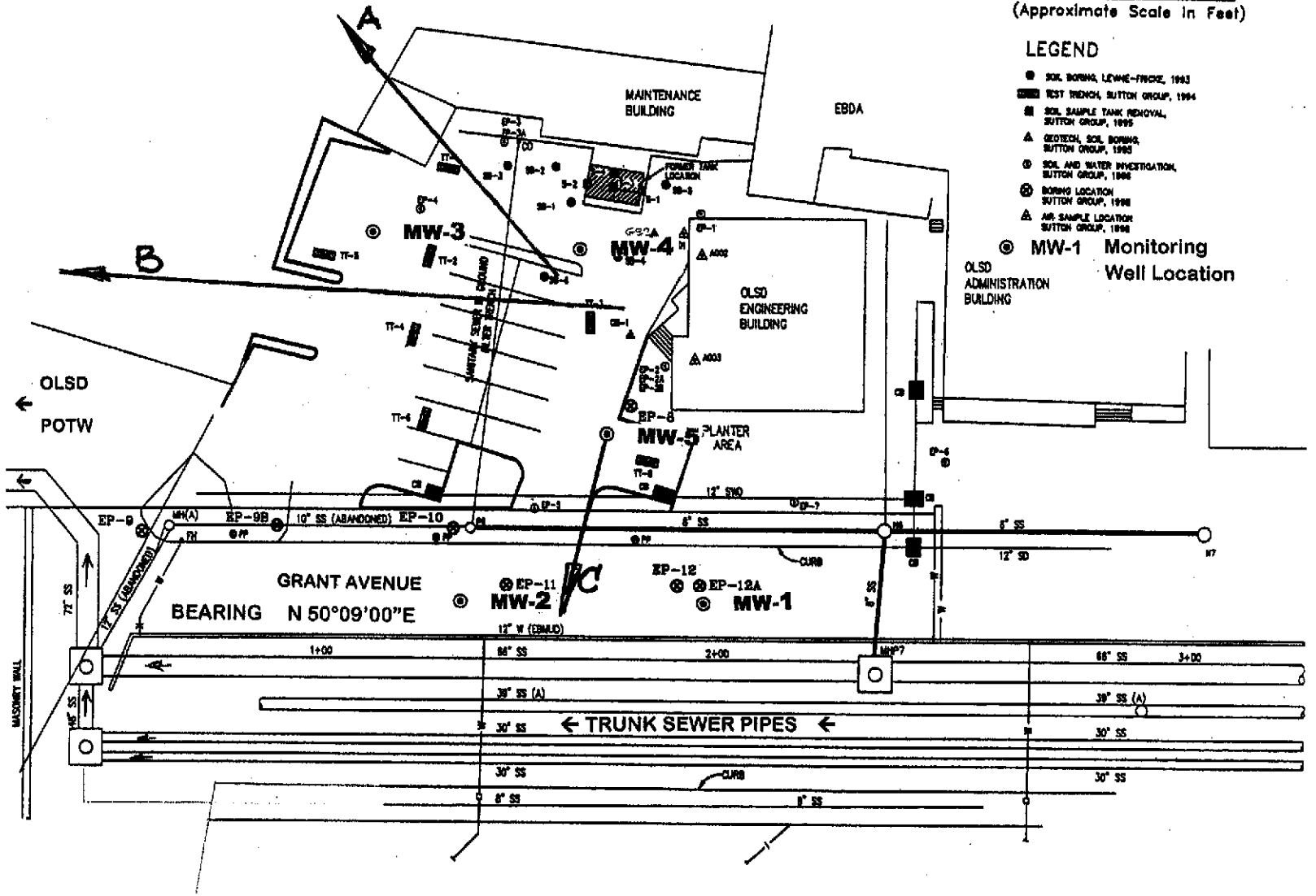
A Gradient .006'/' , west 7/29/04 (MW 3,4,5)  
 B " .006'/' ; S52°W 9/3/04 (MW 3,4,5)  
 C " .040'/' ; S28°E 9/3/04 (MW 1,2,5)



LEGEND

- SOIL BORING, LEWIS-FROCKE, 1993
- TEST TRENCH, SUTTON GROUP, 1994
- SOIL SAMPLE TANK REMOVAL, SUTTON GROUP, 1995
- ▲ GEOTECH. SOIL BORING, SUTTON GROUP, 1995
- SOIL AND WATER INVESTIGATION, SUTTON GROUP, 1996
- ⊙ BORING LOCATION, SUTTON GROUP, 1998
- △ AIR SAMPLE LOCATION, SUTTON GROUP, 1998

⊙ MW-1 Monitoring Well Location



**THE SUTTON GROUP**  
 Engineering and Environmental Services  
 3708 Mount Diablo Blvd, Suite 215  
 Lafayette, California, 94549  
 Phone: (925) 284-4208  
 Fax: (925) 284-4189

**WELL LOCATION PLAN**  
 SERVICE CENTER AREA  
 ORO LOMA SANITARY DISTRICT  
 2600 GRANT AVENUE,  
 SAN LORENZO, CA

PROJECT No. 3022.10  
**FIGURE 2**

TABLE 1  
GROUND WATER ELEVATIONS  
All measurements are in feet

| <b>Monitoring Well ID</b>                     | <b>MW 1</b>  | <b>MW 2</b> | <b>MW 3</b>  | <b>MW 4</b> | <b>MW 5</b> | <b>Estimated Net</b>  |                       |
|---|--------------|-------------|--------------|-------------|-------------|-----------------------|-----------------------|
|   |              |             |              |             |             | <b>Flow Direction</b> | <b>Gradient ft/ft</b> |
| <b>Well Cover Rim Elevn*</b>                  | <b>8.65</b>  | 8.75        | 10.19        | 9.68        | 8.92        |                       |                       |
| <i>Initial Sampling 10/21/02</i>              | 1.72         | 2.04        | 3.21         | 3.58        | 2.84        | S21°E                 | 0.016                 |
| <i>2<sup>nd</sup> Quarterly 1/28/03</i>       | 2.23         | 2.65        | 4.94         | 5.35        | 4.42        | S23°E                 | 0.033                 |
| <i>3<sup>rd</sup> Quarterly, 4/28/03</i>      | Not Measured | 3.18        | Not Measured | 5.80        | 5.20        | S22½°W                | 0.042                 |
| <i>4<sup>th</sup> Quarterly, 7/25/03</i>      | 0.45         | 2.35        | 3.44         | 3.58        | 3.52        | S18°W                 | 0.027                 |
| <i>5<sup>th</sup> Quarterly, 10/30/03</i>     | 1.82         | 2.75        | 3.61         | 4.18        | 4.09        | S26°E                 | 0.014                 |
| <i>6<sup>th</sup> Quarterly, 1/23/04</i>      | 2.20         | 3.27        | 5.27         | 5.47        | 5.17        | S35°E                 | 0.053                 |
| <i>7<sup>th</sup> Quarterly, 4/27/2004</i>    | 2.35         | 3.55        | 4.99         | 5.08        | 4.92        | S17°E                 | 0.017                 |
| <b>8<sup>th</sup> Quarterly, 7/29/2004</b>    |              |             |              |             |             |                       |                       |
| <i>Groundwater Depth</i>                      | 6.58         | 5.48        | 6.09         | 5.37        | 4.37        | West                  | 0.006                 |
| <b>Groundwater Elevation</b>                  | <b>2.07</b>  | <b>3.27</b> | <b>4.10</b>  | <b>4.31</b> | <b>4.55</b> |                       |                       |
| <i>Change Since last reading</i>              | -0.28        | -0.28       | -0.89        | -0.77       | -0.37       |                       |                       |
| <i>Change since 7/03</i>                      | 1.62         | 0.92        | 0.66         | 0.73        | 1.03        |                       |                       |
| <b>Add'l Reading on 9/3/2004</b>              |              |             |              |             |             |                       |                       |
| <i>Groundwater Depth</i>                      | 7.10         | 6.32        | 6.42         | 5.57        | 4.78        | S52°W                 | 0.006                 |
| <b>Groundwater Elevation</b>                  | <b>1.55</b>  | <b>2.43</b> | <b>3.77</b>  | <b>4.11</b> | <b>4.14</b> |                       |                       |
| <i>Change Since 7/29/04</i>                   | -0.52        | -0.84       | -0.33        | -0.20       | -0.41       |                       |                       |
| <i>Change since 4<sup>th</sup> Qtly 7/03</i>  | 1.10         | 0.08        | 0.33         | 0.53        | 0.62        |                       |                       |
| <i>Change since 5<sup>th</sup> Qtly 10/03</i> | -0.27        | -0.32       | 0.16         | -0.07       | 0.05        |                       |                       |

\* Basis of elevations, Alameda County bench mark "Grant-Phil" at intersection of Grant Avenue and Phil Drive.  
Bench Mark Elevation = 2.175 meters, msl = 7.136 feet.

**TABLE 2**  
**SUMMARY OF GROUND WATER SAMPLE ANALYSES**

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE

EPA METHOD 8015Cm /8021  
 results in µg/l (ppb)

| <i>SAMPLE LOCATION</i>           | <i>SAMPLE DATE</i> | <i>GASOLINE</i>   | <i>BENZENE</i> | <i>TOLUENE</i> | <i>ETHYL BENZENE</i> | <i>XYLENES (TOTAL)</i> | <i>MTBE</i> | <i>DILUTION FACTOR</i> |
|----------------------------------|--------------------|-------------------|----------------|----------------|----------------------|------------------------|-------------|------------------------|
| <b>MW-1</b>                      | 7/29/04            | ND                | ND             | ND             | ND                   | ND                     | ND          | 1                      |
| <b>MW-2</b>                      | 7/29/04            | ND                | ND             | ND             | ND                   | ND                     | ND          | 1                      |
| <b>MW-3</b>                      | 7/29/04            | ND                | 6.4            | ND             | ND                   | ND                     | 8.8         | 1                      |
| <b>MW-4</b>                      | 7/29/2004          | 46,000            | 8,300          | 2,100          | 2,000                | 7,900                  | ND<500      | 100                    |
| <b>MW-5</b>                      | 7/29/04            | 47,000            | 11,000         | 5,500          | 690                  | 2,800                  | ND < 1,000  | 200                    |
| <b>MW-D 1</b>                    | 4/27/04            | <i>DIESEL: ND</i> | ND             | ND             | ND                   | ND                     | ND          | 1                      |
| <b>REPORTING LIMITS FOR DF=1</b> | 4/27/04            | 50                | 0.5            | 0.5            | 0.5                  | 0.5                    | 5           |                        |

**NOTES:**

ND Analyte not detected at stated reporting limit  
 N/A Not analyzed

**TABLE 2A**  
**CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**FORMER GASOLINE TANK AREA**

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE  
 results in µg/l (ppb)

| <b>SAMPLE LOCATION</b> | <b>SAMPLE DATE</b> | <b>GASOLINE</b> | <b>BENZENE</b> | <b>TOLUENE</b> | <b>ETHYL BENZENE</b> | <b>XYLENES (TOTAL)</b> | <b>MTBE</b> |
|------------------------|--------------------|-----------------|----------------|----------------|----------------------|------------------------|-------------|
| <b>MW-1</b>            | 2/19/99            | ND              | ND             | ND             | ND                   | ND                     | ND          |
|                        | 5/10/99            | ND              | ND             | ND             | ND                   | ND                     | ND          |
|                        | 8/30/99            | N/A             | ND             | ND             | ND                   | ND                     | ND          |
| <b>DUP</b>             | 11/23/99           | ND              | ND             | ND             | ND                   | ND                     | ND          |
|                        | 11/23/99           | ND              | ND             | ND             | ND                   | ND                     | ND          |
|                        | 7/25/03            | ND              | ND             | ND             | ND                   | ND                     | ND          |
|                        | 10/30/03           | N/A             | N/A            | N/A            | N/A                  | N/A                    | N/A         |
|                        | 1/23/04            | ND              | ND             | ND             | ND                   | ND                     | ND          |
|                        | 4/27/04            | N/A             | N/A            | N/A            | N/A                  | N/A                    | N/A         |
|                        | 7/29/04            | ND              | ND             | ND             | ND                   | ND                     | ND          |
| <b>MW-2</b>            | 2/19/99            | ND              | ND             | ND             | ND                   | ND                     | ND          |
|                        | 5/10/99            | ND              | ND             | ND             | ND                   | ND                     | ND          |
|                        | 8/30/99            | N/A             | ND             | ND             | ND                   | ND                     | ND          |
|                        | 11/23/99           | ND              | ND             | ND             | ND                   | ND                     | ND          |

ORO LOMA SANITARY DISTRICT, STID 1996  
 3022.10 TABLE 2A for 8th qtrly, 0704



**TABLE 2A, Continued**  
**CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**FORMER GASOLINE TANK AREA**

| SAMPLE LOCATION | SAMPLE DATE    | GASOLINE  | BENZENE   | TOLUENE             | ETHYL BENZENE       | XYLENES (TOTAL)    | MTBE             |
|-----------------|----------------|-----------|-----------|---------------------|---------------------|--------------------|------------------|
|                 | 7/25/03        | ND        | ND        | ND                  | ND                  | ND                 | < 1              |
|                 | 10/30/03       | N/A       |           |                     |                     |                    |                  |
|                 | 1/23/04        | ND        | ND        | ND                  | ND                  | ND                 | ND               |
|                 | 4/27/04        | N/A       | N/A       | N/A                 | N/A                 | N/A                | N/A              |
|                 | <b>7/29/04</b> | <b>ND</b> | <b>ND</b> | <b>ND</b>           | <b>ND</b>           | <b>ND</b>          | <b>ND</b>        |
| <b>MW-3</b>     | 2/19/99        | ND        | ND        | ND                  | ND                  | ND                 | 1.5 <sup>1</sup> |
| DUP             | 2/19/99        | ND        | ND        | ND                  | ND                  | ND                 | N/A              |
|                 | 5/10/99        | ND        | ND        | ND                  | ND                  | ND                 | 1.5 <sup>2</sup> |
|                 | 8/30/99        | N/A       | ND        | ND                  | ND                  | ND                 | ND               |
|                 | 11/23/99       | ND        | ND        | [0.69] <sup>3</sup> | [0.58] <sup>3</sup> | [1.3] <sup>3</sup> | ND               |
|                 | 1/6/00         | ND        | ND        | ND                  | ND                  | ND                 | 3.1 <sup>4</sup> |
| DUP             | 1/6/00         | ND        | ND        | ND                  | ND                  | ND                 | 2.6 <sup>4</sup> |
| TRIP BLANK      | 2/10-22/99     | ND        | ND        | ND                  | ND                  | ND                 | N/A              |
|                 | 5/8-20/99      | N/A       | N/A       | N/A                 | N/A                 | N/A                | N/A              |
|                 | 8/27-31/99     | N/A       | N/A       | N/A                 | N/A                 | N/A                | N/A              |
|                 | 7/25/03        | ND        | ND        | ND                  | ND                  | ND                 | 1.1              |
|                 | 10/30/03       | N/A       | N/A       | N/A                 | N/A                 | N/A                | N/A              |

**TABLE 2A, Continued**  
**CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**FORMER GASOLINE TANK AREA**

| SAMPLE LOCATION | SAMPLE DATE      | GASOLINE      | BENZENE       | TOLUENE      | ETHYL BENZENE | XYLENES (TOTAL) | MTBE                 |
|-----------------|------------------|---------------|---------------|--------------|---------------|-----------------|----------------------|
|                 | 1/23/04          | N/A           | N/A           | N/A          | N/A           | N/A             | N/A                  |
|                 | 4/27/04          | N/A           | N/A           | N/A          | N/A           | N/A             | N/A                  |
|                 | <b>7/29/04</b>   | <b>ND</b>     | <b>6.4</b>    | <b>ND</b>    | <b>ND</b>     | <b>ND</b>       | <b>8.8</b>           |
| <b>MW-4</b>     | 10/21/2002       | N/A           | 5,800         | 6,200        | 3,500         | 18,000          | 140                  |
|                 | 1/28/03          | N/A           | 7,200         | 3,500        | 2,700         | 15,000          | 130                  |
|                 | 4/28/03          | N/A           | 5,700         | 850          | ND<120        | 10,000          | 200                  |
|                 | 7/25/03          | 97,000        | 11,000        | 8,400        | 4,900         | 24,000          | ND<250               |
|                 | 10/30/03         | 77,000        | 12,000        | 9,300        | 3,200         | 16,000          | ND < 200             |
|                 | 1/23/04          | 100,000       | 16,000        | 10,000       | 1,100         | 19,000          | ND < 1,200           |
|                 | 4/27/04          | 78,000        | 13,000        | 7,800        | 3,200         | 17,000          | ND < 1,000           |
|                 | <b>7/29/2004</b> | <b>46,000</b> | <b>8,300</b>  | <b>2,100</b> | <b>2,000</b>  | <b>7,900</b>    | <b>ND&lt;500</b>     |
| <b>MW-5</b>     | 10/21/2002       | 65,000        | 12,000*       | 20,000*      | 1,600*        | 7,100*          | ND<100               |
|                 | 1/28/03          | N/A           | 9,100         | 6,600        | 720           | 4,000           | ND<100               |
|                 | 4/28/03          | N/A           | 12,000        | 8,300        | ND<250        | 2,100           | ND<250               |
|                 | 7/25/03          | 62,000        | 13,000        | 14,000       | 1,300         | 5,200           | ND<250               |
|                 | 10/30/03         | 33,000        | 7,500         | 2,200        | 490           | 1,600           | ND < 100             |
|                 | 1/23/04          | 97,000        | 18,000        | 20,000       | ND<120        | 7,900           | ND < 1,200           |
|                 | 4/27/04          | 39,000        | 12,000        | 11,000       | 920           | 4,300           | ND < 1,000           |
|                 | <b>7/29/04</b>   | <b>47,000</b> | <b>11,000</b> | <b>5,500</b> | <b>690</b>    | <b>2,800</b>    | <b>ND &lt; 1,000</b> |

**TABLE 2A, Continued**  
**CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**FORMER GASOLINE TANK AREA**

| SAMPLE LOCATION | SAMPLE DATE | GASOLINE | BENZENE | TOLUENE | ETHYL BENZENE | XYLENES (TOTAL) | MTBE |
|-----------------|-------------|----------|---------|---------|---------------|-----------------|------|
|-----------------|-------------|----------|---------|---------|---------------|-----------------|------|

**NOTES:**

- |     |  |    |  |
|-----|--|----|--|
| ND  | Analyte not detected at stated reporting limit | 1. | Analyzed by EPA method 8260B, reporting limit was 1 µg/l.            |
| N/A | Not analyzed                                   | 2. | Estimated value below method reporting limit of 2 µg/l.              |
| u/n | Unless noted otherwise (Reporting Limit)       | 3. | Inconsistent contaminant pattern. Sample result spurious, re-sampled |
|     |  | 4. | Reporting limit at 2.5 µg/l.   |

**TABLE 3**  
**SUMMARY OF WATER SAMPLE ANALYSES:**  
**FORMER DIESEL TANK AREA MONITORING WELL**

TOTAL PETROLEUM HYDROCARBONS AS DIESEL,

EPA METHOD 8015C, 8021

RESULTS IN µg/L (ppb)

| <i>Sample Date</i> | <i>TPH as DIESEL</i> | <i>BTEX</i> |
|--------------------|----------------------|-------------|
| 7/29/04            | ND<50                | ND          |
| 4/27/04            | 110                  | < 0.91      |
| 1/23/04            | 71                   | ND          |
| 10/30/03           | 87                   | ND          |
| 7/25/03            | 90*                  | ND*         |
| 4/28/2003          | 87                   | ND          |
| 3/ 8/1996          | 340                  | ND          |
| 2/1/95             | 380                  | ND          |
| 6/15/94            | 170                  | ND          |
| 3/15/94            | 200                  | ND          |
| 12/1/93            | 300                  | ND          |

For reporting limits refer to laboratory certificates appended.

ORO LOMA SANITARY DISTRICT

302210 TABLE 3 D analyt 8th qly 0704

**THE SUTTON GROUP**



# McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
Website: www.mccampbell.com E-mail: main@mccampbell.com

|   |   |                          |
|---|---|--------------------------|
| The Sutton Group<br>3708 Mt. Diablo Blvd, Ste. 215<br>Lafayette, CA 94549 | Client Project ID: #3022.10; Oro Loma<br>Sanitary Dist. | Date Sampled: 07/29/04   |
|   |   | Date Received: 07/30/04  |
|   | Client Contact: John Sutton                             | Date Reported: 08/06/04  |
|   | Client P.O.:  | Date Completed: 08/06/04 |

**WorkOrder: 0407444**

August 06, 2004

Dear John:

Enclosed are:

- 1). the results of 6 analyzed samples from your #3022.10; Oro Loma Sanitary Dist. project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

CHAIN OF CUSTODY  
BTS # 040729-041

CLIENT  
The Sutton Group

SITE  
ORO LOMA SANITARY Dist.  
2600 GRANT AVE  
SAN LORENZO, CA

C = COMPOSITE ALL CONTAINERS

| CONDUCT ANALYSIS TO DETECT     |                 |
|--------------------------------|-----------------|
| TPH-G / MBTEX (SW8021B/8015Cm) | TPH-D (SW8015C) |

LAB McCampbell | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

EPA  
 LIA  
 OTHER

RWQCB REGION

SPECIAL INSTRUCTIONS

Invoice and Report to : The Sutton Group  
Attn: John Sutton Job# 3022.10

email results "non-certified" as "pdf" to:  
johnrsutton@mindspring.com

| SAMPLE I.D. | DATE    | TIME         | MATRIX                       |  | TOTAL | C | TPH-G / MBTEX (SW8021B/8015Cm) | TPH-D (SW8015C) |
|-------------|---------|--------------|------------------------------|--|-------|---|--------------------------------|-----------------|
|             |         |              | S=SOIL<br>W=H <sub>2</sub> O |  |       |   |                                |                 |
| - X MW-1    | 7/29/04 | 0922         | W                            |  | 3     |   | X                              |                 |
| - X MW-2    |         | 0947         |                              |  |       |   | X                              |                 |
| - X MW-3    |         | 1010         |                              |  |       |   | X                              |                 |
| - X MW-4    |         | 1101         |                              |  |       |   | X                              |                 |
| - X MW-5    |         | 1203<br>1140 |                              |  |       |   | X                              |                 |
| + X MW-DI   |         | 1140         |                              |  | 5     |   | X X                            |                 |

GOOD CONDITION  
HEAD SPACE ABSENT  
DECHLORINATED IN LAB  
PRESERVATION

APPROPRIATE CONTAINERS  
PRESERVED IN LAB

VOAS | OAS | METALS | OTHER

SAMPLING COMPLETED 7/29/04 1215 | SAMPLING PERFORMED BY David Ailburt | RESULTS NEEDED NO LATER THAN Standard TAT

|                            |                |               |                          |                |               |
|----------------------------|----------------|---------------|--------------------------|----------------|---------------|
| RELEASED BY: David Ailburt | DATE: 7/30/04  | TIME: 2:20 PM | RECEIVED BY: Scott Brown | DATE: 07/30/04 | TIME: 2:20 pm |
| RELEASED BY: Scott Brown   | DATE: 07/30/04 | TIME: 5:00    | RECEIVED BY: Jim V...    | DATE: 7/30     | TIME: 5:00    |

SHIPPED VIA | DATE SENT | TIME SENT | COOLER #

**McC Campbell Analytical, Inc.**

110 Second Avenue South, #D7  
 Pacheco, CA 94553-5560  
 (925) 798-1620

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0407444

ClientID: TSG

**Report to:**

John Sutton  
 The Sutton Group  
 3708 Mt. Diablo Blvd, Ste. 215  
 Lafayette, CA 94549

TEL: 925-284-4208  
 FAX: 925-284-4189  
 ProjectNo: #3022.10; Oro Loma Sanitary Dist.  
 PO:

**Bill to:**

Accounts Payable  
 The Sutton Group  
 3708 Mt. Diablo Blvd, Ste. 215  
 Lafayette, CA 94549

Requested TAT:

5 days

*Date Received:* 7/30/04*Date Printed:* 7/30/04

| Sample ID   | ClientSampID | Matrix | Collection Date    | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-------------|--------------|--------|--------------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|             |              |        |                    |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 0407444-001 | MW-1         | Water  | 7/29/04 9:22:00 AM | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 0407444-002 | MW-2         | Water  | 7/29/04 9:47:00 AM | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 0407444-003 | MW-3         | Water  | 7/29/04 10:10:00   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 0407444-004 | MW-4         | Water  | 7/29/04 11:01:00   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 0407444-005 | MW-5         | Water  | 7/29/04 12:03:00   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 0407444-006 | MW-D1        | Water  | 7/29/04 11:40:00   | <input type="checkbox"/> | A                                  | B |   |   |   |   |   |   |   |    |    |    |    |    |    |

**Test Legend:**

|    |           |    |          |    |  |    |  |    |  |
|----|-----------|----|----------|----|--|----|--|----|--|
| 1  | G-MBTEx_W | 2  | TPH(D)_W | 3  |  | 4  |  | 5  |  |
| 6  |           | 7  |          | 8  |  | 9  |  | 10 |  |
| 11 |           | 12 |          | 13 |  | 14 |  | 15 |  |

Prepared by: Elisa Venegas

**Comments:**

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



|   |  |                                   |
|---|--|-----------------------------------|
| The Sutton Group<br>3708 Mt. Diablo Blvd, Ste. 215<br>Lafayette, CA 94549 | Client Project ID: #3022.10; Oro Loma Sanitary Dist. | Date Sampled: 07/29/04            |
|   | Client Contact: John Sutton                          | Date Received: 07/30/04           |
|   | Client P.O.:   | Date Extracted: 08/03/04-08/05/04 |
|   |  | Date Analyzed: 08/03/04-08/05/04  |

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction method: SW5030B      Analytical methods: SW8021B/8015Cm      Work Order: 0407444

| Lab ID | Client ID | Matrix | TPH(g)   | MTBE    | Benzene | Toluene | Ethylbenzene | Xylenes | DF  | % SS |
|--------|-----------|--------|----------|---------|---------|---------|--------------|---------|-----|------|
| 001A   | MW-1      | W      | ND       | ND      | ND      | ND      | ND           | ND      | 1   | 94.1 |
| 002A   | MW-2      | W      | ND       | ND      | ND      | ND      | ND           | ND      | 1   | 98.7 |
| 003A   | MW-3      | W      | ND       | 8.8     | 6.4     | ND      | ND           | ND      | 1   | 94.9 |
| 004A   | MW-4      | W      | 46,000,a | ND<500  | 8300    | 2100    | 2000         | 7900    | 100 | 102  |
| 005A   | MW-5      | W      | 47,000,a | ND<1000 | 11,000  | 5500    | 690          | 2800    | 200 | 102  |
| 006A   | MW-D1     | W      | ND       | ND      | ND      | ND      | ND           | ND      | 1   | 105  |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |
|        |           |        |          |         |         |         |              |         |     |      |

|   |   |    |     |     |     |     |     |     |   |       |
|---|---|----|-----|-----|-----|-----|-----|-----|---|-------|
| Reporting Limit for DF=1;<br>ND means not detected at or<br>above the reporting limit | W | 50 | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | µg/L  |
|   | S | NA | NA  | NA  | NA  | NA  | NA  | NA  | 1 | mg/Kg |

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

Angela Rydelius, Lab Manager



**McC Campbell Analytical, Inc.**

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 Website: www.mccampbell.com E-mail: main@mccampbell.com

|   |  |                          |
|---|--|--------------------------|
| The Sutton Group<br><br>3708 Mt. Diablo Blvd, Ste. 215<br><br>Lafayette, CA 94549 | Client Project ID: #3022.10; Oro Loma Sanitary Dist. | Date Sampled: 07/29/04   |
|   | Client Contact: John Sutton                          | Date Received: 07/30/04  |
|   | Client P.O.:   | Date Extracted: 07/30/04 |
|   |  | Date Analyzed: 08/05/04  |

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel\***

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0407444

| Lab ID       | Client ID | Matrix | TPH(d) | DF | % SS |
|--------------|-----------|--------|--------|----|------|
| 0407444-006B | MW-D1     | W      | ND     | 1  | 97.6 |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
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|              |           |        |        |    |      |
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|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |

|   |   |    |      |
|---|---|----|------|
| Reporting Limit for DF = 1;<br>ND means not detected at or<br>above the reporting limit | W | 50 | µg/L |
|   | S | NA | NA   |

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



**QC SUMMARY REPORT FOR SW8021B/8015Cm**

Matrix: W

WorkOrder: 0407444

| EPA Method: SW8021B/8015Cm |        | Extraction: SW5030B |        | BatchID: 12571 |         | Spiked Sample ID: 0408001-001A |        |          |                         |      |
|----------------------------|--------|---------------------|--------|----------------|---------|--------------------------------|--------|----------|-------------------------|------|
|                            | Sample | Spiked              | MS*    | MSD*           | MS-MSD* | LCS                            | LCSD   | LCS-LCSD | Acceptance Criteria (%) |      |
|                            | µg/L   | µg/L                | % Rec. | % Rec.         | % RPD   | % Rec.                         | % Rec. | % RPD    | Low                     | High |
| TPH(btex) <sup>£</sup>     | ND     | 60                  | 97.3   | 96.3           | 1.02    | 95.7                           | 95.9   | 0.244    | 70                      | 130  |
| MTBE                       | ND     | 10                  | 106    | 104            | 2.50    | 103                            | 105    | 2.31     | 70                      | 130  |
| Benzene                    | ND     | 10                  | 114    | 109            | 4.75    | 110                            | 104    | 5.17     | 70                      | 130  |
| Toluene                    | ND     | 10                  | 113    | 109            | 3.42    | 106                            | 105    | 1.19     | 70                      | 130  |
| Ethylbenzene               | ND     | 10                  | 113    | 108            | 4.57    | 109                            | 104    | 4.52     | 70                      | 130  |
| Xylenes                    | ND     | 30                  | 100    | 95.3           | 4.78    | 96                             | 91     | 5.35     | 70                      | 130  |
| %SS:                       | 84.1   | 10                  | 107    | 105            | 1.75    | 103                            | 102    | 1.04     | 70                      | 130  |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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### QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0407444

| EPA Method: SW8015C  |        | Extraction: SW3510C |        |        | BatchID: 12544 |        | Spiked Sample ID: N/A |          |                         |      |
|--|--------|---------------------|--------|--------|----------------|--------|-----------------------|----------|-------------------------|------|
|  | Sample | Spiked              | MS*    | MSD*   | MS-MSD*        | LCS    | LCSD                  | LCS-LCSD | Acceptance Criteria (%) |      |
|  | µg/L   | µg/L                | % Rec. | % Rec. | % RPD          | % Rec. | % Rec.                | % RPD    | Low                     | High |
| TPH(d)   | N/A    | 7500                | N/A    | N/A    | N/A            | 110    | 111                   | 1.00     | 70                      | 130  |
| %SS:   | N/A    | 2500                | N/A    | N/A    | N/A            | 120    | 113                   | 5.67     | 70                      | 130  |
| All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:<br>NONE |        |                     |        |        |                |        |                       |          |                         |      |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / ((MS + MSD) / 2)$ .

\* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

V.P. QA/QC Officer

# WELLHEAD INSPECTION CHECKLIST

Date 7/29/04 Client The Sutton Group  
 Site Address 2600 Grant Ave San Lorenzo, CA  
 Job Number 040729-DA1 Technician DA

| Well ID | Well Inspected -<br>No Corrective<br>Action Required | Water Bailed<br>From<br>Wellbox | Wellbox<br>Components<br>Cleaned | Cap<br>Replaced | Debris<br>Removed<br>From<br>Wellbox | Lock<br>Replaced | Other Action<br>Taken<br>(explain<br>below) | Well Not<br>Inspected<br>(explain<br>below) |
|---------|--|---------------------------------|----------------------------------|-----------------|--------------------------------------|------------------|---|---|
| MW-1    |  |                                 |                                  |                 |                                      |                  | 1,2   |   |
| MW-2    |  |                                 |                                  |                 |                                      |                  | 1,2   |   |
| MW-3    |  |                                 |                                  |                 |                                      |                  | 1,2   |   |
| MW-4    |  |                                 |                                  |                 |                                      |                  | 2   |   |
| MW-5    |  |                                 |                                  |                 |                                      |                  | 2   |   |
| MW-D1   |  |                                 |                                  |                 |                                      |                  | 2   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |
|         |  |                                 |                                  |                 |                                      |                  |   |   |

NOTES: 1. Bad Cap 2. No/Rod lock

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# WELL GAUGING DATA

Project # 046729-DAI      Date 7/29/04      Client The Sutton Group

Site 2600 Grant Ave. San Lorenzo, CA

| Well ID | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or TOC |
|---------|-----------------|--------------|----------------------------------|--------------------------------------|------------------------------------|----------------------|----------------------------|--------------------------|
| MW-1    | 2               |              |                                  |                                      |                                    | 6.58                 | 14.63                      | TOB                      |
| MW-2    | 2               |              |                                  |                                      |                                    | 5.48                 | 15.49                      | ↓                        |
| MW-3    | 2               |              |                                  |                                      |                                    | 6.09                 | 15.62                      |                          |
| MW-4    | 2               | 0            |                                  |                                      |                                    | 5.37                 | 13.93                      |                          |
| MW-5    | 2               |              |                                  |                                      |                                    | 4.37                 | 13.78                      |                          |
| MW-DI   | 4               |              |                                  |                                      |                                    | 2.87                 | 14.51                      |                          |
|         |                 |              |                                  |                                      |                                    |                      |                            |                          |
|         |                 |              |                                  |                                      |                                    |                      |                            |                          |
|         |                 |              |                                  |                                      |                                    |                      |                            |                          |
|         |                 |              |                                  |                                      |                                    |                      |                            |                          |
|         |                 |              |                                  |                                      |                                    |                      |                            |                          |
|         |                 |              |                                  |                                      |                                    |                      |                            |                          |
|         |                 |              |                                  |                                      |                                    |                      |                            |                          |
|         |                 |              |                                  |                                      |                                    |                      |                            |                          |
|         |                 |              |                                  |                                      |                                    |                      |                            |                          |
|         |                 |              |                                  |                                      |                                    |                      |                            |                          |

## WELL MONITORING DATA SHEET

|   |                                   |
|---|-----------------------------------|
| Project #: <u>040729-DA1</u>  | Client: <u>Sutton Group</u>       |
| Sampler: <u>DA</u>  | Date: <u>7/29/04</u>              |
| Well I.D.: <u>MW-1</u>  | Well Diameter: <u>2</u> 3 4 6 8   |
| Total Well Depth (TD): <u>14.63</u>                                     | Depth to Water (DTW): <u>6.58</u> |
| Depth to Free Product:  | Thickness of Free Product (feet): |
| Referenced to: PVC <u>Grade</u>   | D.O. Meter (if req'd): YSI HACH   |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>-</u> |                                   |

|   |  |   |
|---|--|---|
| Purge Method: Bailer                                  | Watterra                                 | Sampling Method: Bailer                               |
| <input checked="" type="checkbox"/> Disposable Bailer | <input type="checkbox"/> Peristaltic     | <input checked="" type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Positive Air Displacement    | <input type="checkbox"/> Extraction Pump | <input type="checkbox"/> Extraction Port              |
| <input type="checkbox"/> Electric Submersible         | Other _____                              | <input type="checkbox"/> Dedicated Tubing             |
| Other: _____  |  |   |

| $\frac{1.3 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{3.9 \text{ Gals.}}{\text{Calculated Volume}}$ | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table> | Well Diameter | Multiplier                  | Well Diameter | Multiplier | 1" | 0.04 | 4" | 0.65 | 2" | 0.16 | 6" | 1.47 | 3" | 0.37 | Other | radius <sup>2</sup> * 0.163 |
|--|--|---------------|-----------------------------|---------------|------------|----|------|----|------|----|------|----|------|----|------|-------|-----------------------------|
| Well Diameter  | Multiplier   | Well Diameter | Multiplier                  |               |            |    |      |    |      |    |      |    |      |    |      |       |                             |
| 1"   | 0.04   | 4"            | 0.65                        |               |            |    |      |    |      |    |      |    |      |    |      |       |                             |
| 2"   | 0.16   | 6"            | 1.47                        |               |            |    |      |    |      |    |      |    |      |    |      |       |                             |
| 3"   | 0.37   | Other         | radius <sup>2</sup> * 0.163 |               |            |    |      |    |      |    |      |    |      |    |      |       |                             |

| Time | Temp<br>(°F or °C) | pH  | Cond.<br>(mS or µS) | Turbidity<br>(NTUs) | Gals. Removed | Observations                     |
|------|--------------------|-----|---------------------|---------------------|---------------|----------------------------------|
| 0915 | 69.6               | 6.4 | 38.33               | 27                  | 1.5           | clear,                           |
| 0917 | 69.4               | 6.6 | 52.19               | 30                  | 3             | "                                |
| 0919 | 69.0               | 6.7 | 56.97               | 39                  | 4             | grey tint; H <sub>2</sub> S odor |
|      |                    |     |                     |                     |               |                                  |
|      |                    |     |                     |                     |               |                                  |

Did well dewater? Yes  No  Gallons actually evacuated: 4

Sampling Date: 7/29/04 Sampling Time: 0922 Depth to Water: -

Sample I.D.: MW-1 Laboratory: Kiff CalScience Other McC Campbell

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D  Oxygenates (5) Other:

EB I.D. (if applicable): @ \_\_\_\_\_ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

|                    |            |      |             |      |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV   |

## WELL MONITORING DATA SHEET

|   |   |
|---|---|
| Project #: <u>040729-DA1</u>  | Client: <u>The Sutton Group</u>         |
| Sampler: <u>OA</u>  | Date: <u>7/29/04</u>                    |
| Well I.D.: <u>MW-2</u>  | Well Diameter: <u>(2)</u> 3 4 6 8 _____ |
| Total Well Depth (TD): <u>15.49</u>                                     | Depth to Water (DTW): <u>5.48</u>       |
| Depth to Free Product:  | Thickness of Free Product (feet):       |
| Referenced to: <del>_____</del> <u>Grade</u>                            | D.O. Meter (if req'd): YSI HACH         |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>-</u> |   |

Purge Method:  Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible

Waterra  Peristaltic  Extraction Pump  Other \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing

Other: \_\_\_\_\_

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

1.6 (Gals.) X 3 = 4.8 Gals.

Case Volume                      Specified Volumes                      Calculated Volume

| Time        | Temp<br>( <del>F</del> or °C) | pH         | Cond.<br>(mS or <del>µS</del> ) | Turbidity<br>(NTUs) | Gals. Removed | Observations                            |
|-------------|-------------------------------|------------|---------------------------------|---------------------|---------------|---|
| <u>0940</u> | <u>72.1</u>                   | <u>7.3</u> | <u>9452</u>                     | <u>623</u>          | <u>2</u>      | <u>grey, H<sub>2</sub>S odor cloudy</u> |
| <u>0942</u> | <u>70.5</u>                   | <u>7.4</u> | <u>8803</u>                     | <u>71000</u>        | <u>4</u>      | <u>"</u>                                |
| <u>0944</u> | <u>69.2</u>                   | <u>7.1</u> | <u>9121</u>                     | <u>71000</u>        | <u>5</u>      | <u>"</u>                                |
|             |                               |            |                                 |                     |               |   |
|             |                               |            |                                 |                     |               |   |

Did well dewater? Yes  NO Gallons actually evacuated: 5

Sampling Date: 7/29/04 Sampling Time: 0947 Depth to Water: -

Sample I.D.: MW-2 Laboratory: Kiff CalScience Other Mc Campbell

Analyzed for: ~~PH-G BTEX~~ MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L Post-purge: \_\_\_\_\_ mg/L

O.R.P. (if req'd): Pre-purge: \_\_\_\_\_ mV Post-purge: \_\_\_\_\_ mV

## WELL MONITORING DATA SHEET

|   |                                       |
|---|---------------------------------------|
| Project #: <u>040729-DA1</u>  | Client: <u>The Satten Group</u>       |
| Sampler: <u>DA</u>  | Date: <u>7/29/04</u>                  |
| Well I.D.: <u>MW-3</u>  | Well Diameter: <u>Ø</u> 3 4 6 8 _____ |
| Total Well Depth (TD): <u>15.62</u>                                     | Depth to Water (DTW): <u>6.09</u>     |
| Depth to Free Product:  | Thickness of Free Product (feet):     |
| Referenced to: <del>AWD</del> <u>Grade</u>                              | D.O. Meter (if req'd): YSI HACH       |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>—</u> |                                       |

Purge Method:  Bailer  Watertra  Sampling Method:  Bailer  
 Disposable Bailer  Peristaltic  Disposable Bailer  
 Positive Air Displacement  Extraction Pump  Extraction Port  
 Electric Submersible  Other \_\_\_\_\_  Dedicated Tubing

Other: \_\_\_\_\_

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

|                      |                   |   |                   |
|----------------------|-------------------|---|-------------------|
| <u>1.5</u> (Gals.) X | <u>3</u>          | = | <u>4.5</u> Gals.  |
| 1 Case Volume        | Specified Volumes |   | Calculated Volume |

| Time | Temp<br>( <del>F</del> or °C) | pH  | Cond.<br>( <del>mS</del> or µS) | Turbidity<br>(NTUs) | Gals. Removed | Observations                                 |
|------|-------------------------------|-----|---------------------------------|---------------------|---------------|--|
| 1003 | 71.8                          | 6.9 | 9997(µS)                        | 254                 | 1.5           | grey, cloudy, H <sub>2</sub> SO <sub>4</sub> |
| 1005 | 69.3                          | 6.9 | 22.32                           | 201                 | 3             | "  |
| 1007 | 68.9                          | 6.9 | 26.48                           | 173                 | 4.5           | "  |
|      |                               |     |                                 |                     |               |  |
|      |                               |     |                                 |                     |               |  |

Did well dewater? Yes  No  Gallons actually evacuated: 4.5

Sampling Date: 7/29/04 Sampling Time: 1010 Depth to Water: —

Sample I.D.: MW-3 Laboratory: Kiff CalScience Other McCampbell

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

|                    |            |      |             |      |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV   |



## WELL MONITORING DATA SHEET

|   |                                       |
|---|---------------------------------------|
| Project #: <u>040729-DA1</u>  | Client: <u>The Sutton Group</u>       |
| Sampler: <u>DA</u>  | Date: <u>7/29/04</u>                  |
| Well I.D.: <u>MW-4</u>  | Well Diameter: <u>2</u> 3 4 6 8 _____ |
| Total Well Depth (TD): <u>13.93</u>                                     | Depth to Water (DTW): <u>5.37</u>     |
| Depth to Free Product:  | Thickness of Free Product (feet):     |
| Referenced to: PVC <u>Grade</u>   | D.O. Meter (if req'd): YSI HACH       |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>-</u> |                                       |

Purge Method: Bailer  Disposable Bailer  Positive Air Displacement Electric Submersible

Waterra Peristaltic Extraction Pump Other \_\_\_\_\_

Sampling Method: Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing

Other: \_\_\_\_\_

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

1.4 (Gals.) X 3 = 4.2 Gals.

Case Volume                      Specified Volumes                      Calculated Volume

| Time        | Temp<br>( <u>°F</u> or °C) | pH         | Cond.<br>(mS or <u>µS</u> ) | Turbidity<br>(NTUs) | Gals. Removed | Observations                    |
|-------------|----------------------------|------------|-----------------------------|---------------------|---------------|---------------------------------|
| <u>1051</u> | <u>74.5</u>                | <u>7.1</u> | <u>9999(µS)</u>             | <u>71000</u>        | <u>1.5</u>    | <u>grey, cloudy, odor</u>       |
| <u>1053</u> | <u>72.4</u>                | <u>6.8</u> | <u>29.06</u>                | <u>71000</u>        | <u>3</u>      | <u>"</u>                        |
| <u>1055</u> | <u>70.7</u>                | <u>6.8</u> | <u>31.89</u>                | <u>71000</u>        | <u>4.5</u>    | <u>dark grey, cloudy, sheen</u> |
|             |                            |            |                             |                     |               |                                 |
|             |                            |            |                             |                     |               |                                 |

Did well dewater? Yes  No Gallons actually evacuated: 4.5

Sampling Date: 7/29/04 Sampling Time: 1101 Depth to Water: -

Sample I.D.: MW-4 Laboratory: Kiff CalScience Other McC Campbell

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

|                    |            |      |             |      |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV   |

## WELL MONITORING DATA SHEET

|  |                                       |
|--|---------------------------------------|
| Project #: <u>040729-DA1</u>   | Client: <u>The Sutter Group</u>       |
| Sampler: <u>DA</u>   | Date: <u>7/29/04</u>                  |
| Well I.D.: <u>MW-5</u>   | Well Diameter: <u>2</u> 3 4 6 8 _____ |
| Total Well Depth (TD): <u>13.78</u>  | Depth to Water (DTW): <u>4.37</u>     |
| Depth to Free Product:   | Thickness of Free Product (feet):     |
| Referenced to: <u>PVD</u> Grade  | D.O. Meter (if req'd): YSI HACH       |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>6.25</u> |                                       |

|  |  |   |
|--|--|---|
| Purge Method: * Bailer<br>* Disposable Bailer<br>Positive Air Displacement<br>Electric Submersible | Waterra<br>Peristaltic<br>Extraction Pump<br>Other _____ | Sampling Method: Bailer<br>* Disposable Bailer<br>Extraction Port<br>Dedicated Tubing<br>Other: _____ |
|--|--|---|

| $1.5 \text{ (Gals.)} \times 3 = 4.5 \text{ Gals.}$<br>I Case Volume      Specified Volumes      Calculated Volume | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td><u>2"</u></td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table> | Well Diameter | Multiplier                  | Well Diameter | Multiplier | 1" | 0.04 | 4" | 0.65 | <u>2"</u> | 0.16 | 6" | 1.47 | 3" | 0.37 | Other | radius <sup>2</sup> * 0.163 |
|---|---|---------------|-----------------------------|---------------|------------|----|------|----|------|-----------|------|----|------|----|------|-------|-----------------------------|
| Well Diameter   | Multiplier  | Well Diameter | Multiplier                  |               |            |    |      |    |      |           |      |    |      |    |      |       |                             |
| 1"  | 0.04  | 4"            | 0.65                        |               |            |    |      |    |      |           |      |    |      |    |      |       |                             |
| <u>2"</u>   | 0.16  | 6"            | 1.47                        |               |            |    |      |    |      |           |      |    |      |    |      |       |                             |
| 3"  | 0.37  | Other         | radius <sup>2</sup> * 0.163 |               |            |    |      |    |      |           |      |    |      |    |      |       |                             |

| Time | Temp<br>(°F or °C)   | pH  | Cond.<br>(mS or µS) | Turbidity<br>(NTUs) | Gals. Removed | Observations                                  |
|------|----------------------|-----|---------------------|---------------------|---------------|---|
| 1030 | 71.7                 | 7.1 | 21.00               | 85                  | 1.5           | green, cloudy, H <sub>2</sub> S no shown odor |
| 1032 | 69.4                 | 6.8 | 35.93               | 230                 | 3             | "   |
| 1032 | well dewatered @ 3g. |     |                     |                     |               |   |
| 1200 | 72.9                 | 6.4 | 25.14               | 121                 | -             |   |

Did well dewater?  Yes    No      Gallons actually evacuated: 3

Sampling Date: 7/29/04    Sampling Time: 1203    Depth to Water: 9.40 @ site departure

Sample I.D.: MW-5      Laboratory: Kiff    CalScience    Other McCampbell

Analyzed for: TPH-G BTEX    MTBE    TPH-D    Oxygenates (5)    Other:

EB I.D. (if applicable): @ Time      Duplicate I.D. (if applicable):

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Oxygenates (5)    Other:

|                    |            |      |             |      |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV   |

# WELL MONITORING DATA SHEET

|  |   |
|--|---|
| Project #: 040729-DA1  | Client: The Sutter Group                |
| Sampler: OA  | Date: 7/29/04                           |
| Well I.D.: MW-D1   | Well Diameter: 2 3 <b>(4)</b> 6 8 _____ |
| Total Well Depth (TD): 14.51                                     | Depth to Water (DTW): 2.37              |
| Depth to Free Product:   | Thickness of Free Product (feet):       |
| Referenced to: PVC <b>Grad</b>                                   | D.O. Meter (if req'd): YSI HACH         |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: — |   |

|   |   |  |
|---|---|--|
| Purge Method: <input type="checkbox"/> Bailer<br><input type="checkbox"/> Disposable Bailer<br><input type="checkbox"/> Positive Air Displacement<br><input checked="" type="checkbox"/> Electric Submersible | Waterra <input type="checkbox"/><br>Peristaltic <input type="checkbox"/><br>Extraction Pump <input type="checkbox"/><br>Other _____ | Sampling Method: <input type="checkbox"/> Bailer<br><input checked="" type="checkbox"/> Disposable Bailer<br><input type="checkbox"/> Extraction Port<br><input type="checkbox"/> Dedicated Tubing<br>Other: _____ |
|---|---|--|

|               |           |                   |   |                   |       |
|---------------|-----------|-------------------|---|-------------------|-------|
| 7.6           | (Gals.) X | 3                 | = | 22.8              | Gals. |
| 1 Case Volume |           | Specified Volumes |   | Calculated Volume |       |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

| Time | Temp<br>(°F or °C) | pH  | Cond.<br>(mS or $\mu$ S) | Turbidity<br>(NTUs) | Gals. Removed | Observations |
|------|--------------------|-----|--------------------------|---------------------|---------------|--------------|
| 1134 | 74.2               | 7.6 | 5544                     | 552                 | 8             | grey, cloudy |
| 1135 | 74.3               | 7.7 | 7119                     | 587                 | 16            | "            |
| 1137 | 74.2               | 7.7 | 7621                     | 601                 | 23            | "            |
|      |                    |     |                          |                     |               |              |
|      |                    |     |                          |                     |               |              |

Did well dewater? Yes  No  Gallons actually evacuated: 23

Sampling Date: 7/29/04      Sampling Time: 1140      Depth to Water: —

Sample I.D.: MW-D1      Laboratory: Kiff    CalScience    Other McC Campbell

Analyzed for: **(TPH-G)** **(BTEX)**    MTBE    **(TPH-D)**    Oxygenates (5)    Other:

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

|                    |            |      |             |      |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd):   | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV   | Post-purge: | mV   |