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## THE SUTTON GROUP

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

3708 Mount Diablo Blvd  
Suite 215  
Lafayette, CA, 94549

May 4, 2008

Mr. Jason Warner  
Oro Loma Sanitary District  
2655 Grant Avenue  
San Lorenzo, 94580

**RECEIVED**

2:02 pm, May 06, 2008

Alameda County  
Environmental Health

**Results of 23<sup>rd</sup> Quarterly Sampling Round of Ground Water Monitoring Wells  
Site of the Former Gasoline Tank  
2655 Grant Ave., San Lorenzo, CA  
OLSD PO No. 4911, LOP Site No. RO0000288 ST ID 1996**

Dear Mr. Warner:

We attach results for the most recent round of quarterly sampling of the ground water monitoring wells in the area of the former gasoline tank, conducted on April 15<sup>th</sup>, 2008. This is the 23<sup>rd</sup> quarterly sampling of wells in the gasoline tank area.

<sup>1</sup>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, as amended.

Figure 1 is a plan of the District's facilities at the foot of Grant Avenue in San Lorenzo. It shows the relative locations of the former gasoline tank to the District's offices and adjacent sewage treatment plant. Figure 2 is a plan of the engineering offices and maintenance area, showing the monitoring well locations and the calculated groundwater flow gradients. Figure 2A is the calculation sheet used to develop Figure 2.

We have electronically uploaded this report to Alameda County's own electronic database. This data will also be up-loaded to the State Water Resources Control Board's Geotracker computer database, as required by law.

### **Groundwater Monitoring**

Review of groundwater level measurements around the former gasoline tank site indicates a 0.3 to 0.5 feet decrease of ground water elevations on site over the quarter, reflective of the very dry spring season this year. These are about a foot lower than a year ago and historical levels. Table 1 shows the ground water readings and also a cumulative tabulation of groundwater level data.

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<sup>1</sup> Please note that we have changed the street address of the District's offices, and thus that of the tank location (at the request of the Post Office) from 2600 to 2655 Grant Avenue.

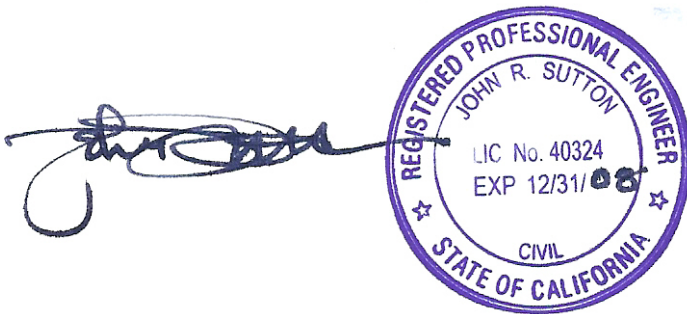
### **Sampling Results**

On April 15<sup>th</sup>, 2008 water samples were collected from wells MW 3, 4 and 5 in accordance with the approved work plan. The samples were collected by bailing. Each sample was analyzed for gasoline, BTEX and MTBE. Table 2 is a summary of the results of the current round of analytical results for hydrocarbons. Table 2A is a compilation of all test results for gasoline-related hydrocarbon constituents in the gasoline tank area since well sampling began in 1999. Laboratory certificates and field sampling logs are also attached.

Monitoring Well MW4 was closed/technically abandoned on April 17, 2008, preparatory to source removal in its vicinity. The work, presented in the Interim Corrective Action Plan approved by Alameda County Environmental Health Department, was performed under a permit from the Alameda County Public Works Agency will be documented separately.

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**

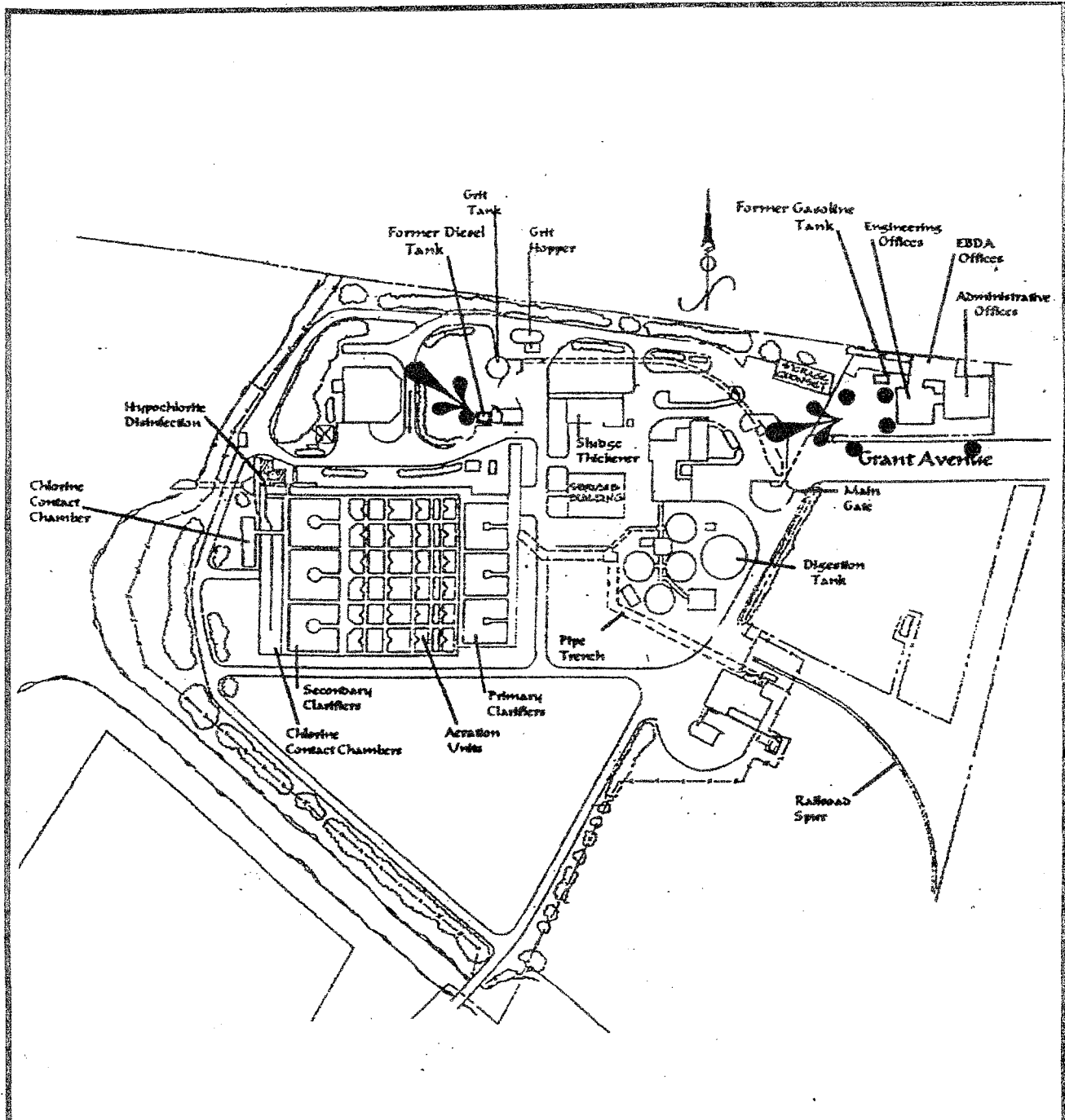


John R. Sutton, PE  
RCE 40324, exp 12/31/2008

### **Attachments:**

- Figure 1 Site Plan
- Figure 2 Well Location Plan, Former Gasoline Tank Area
- Figure 2A Gradient calculation sheet
- Table 1 Ground Water Elevations, Former Gasoline Tank Area
- Table 2 Summary of Current Water Sample Analyses for Gasoline and constituents, Former Gasoline Tank Area
- Table 2A Cumulative Summary of Water Sample Analyses, Gas Tank Area
- Analytical Laboratory Reports (McC Campbell)
- Field sampling Reports (Blaine Tech)

Copy uploaded to Alameda Co web site. Data uploaded to Geotracker database.  
Copy with attachments in pdf and MSEXcel formats sent by email to Mr. Steven Plunkett at Alameda County Health Dept.



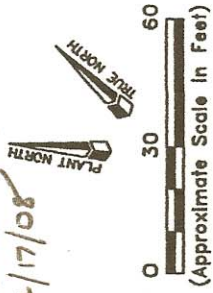
**SITE PLAN**

● Monitoring Well Location

SCALE 1 IN. TO 250 FEET, APPROX

<p><b>THE SUTTON GROUP.</b>          3708 Mount Diablo Blvd, Ste 215          Lafayette, CA, 94549          925 284-4208</p>	<p><b>SITE PLAN</b>  <b>ORO LOMA SANITARY DISTRICT</b>  <b>San Lorenzo, California</b></p>	<p>PROJECT No3022.10  <b>FIGURE 1</b>          5/21/03</p>
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READINGS 4/15/08 (Q2-2008)  
 X MW4 CLOSED 4/17/08



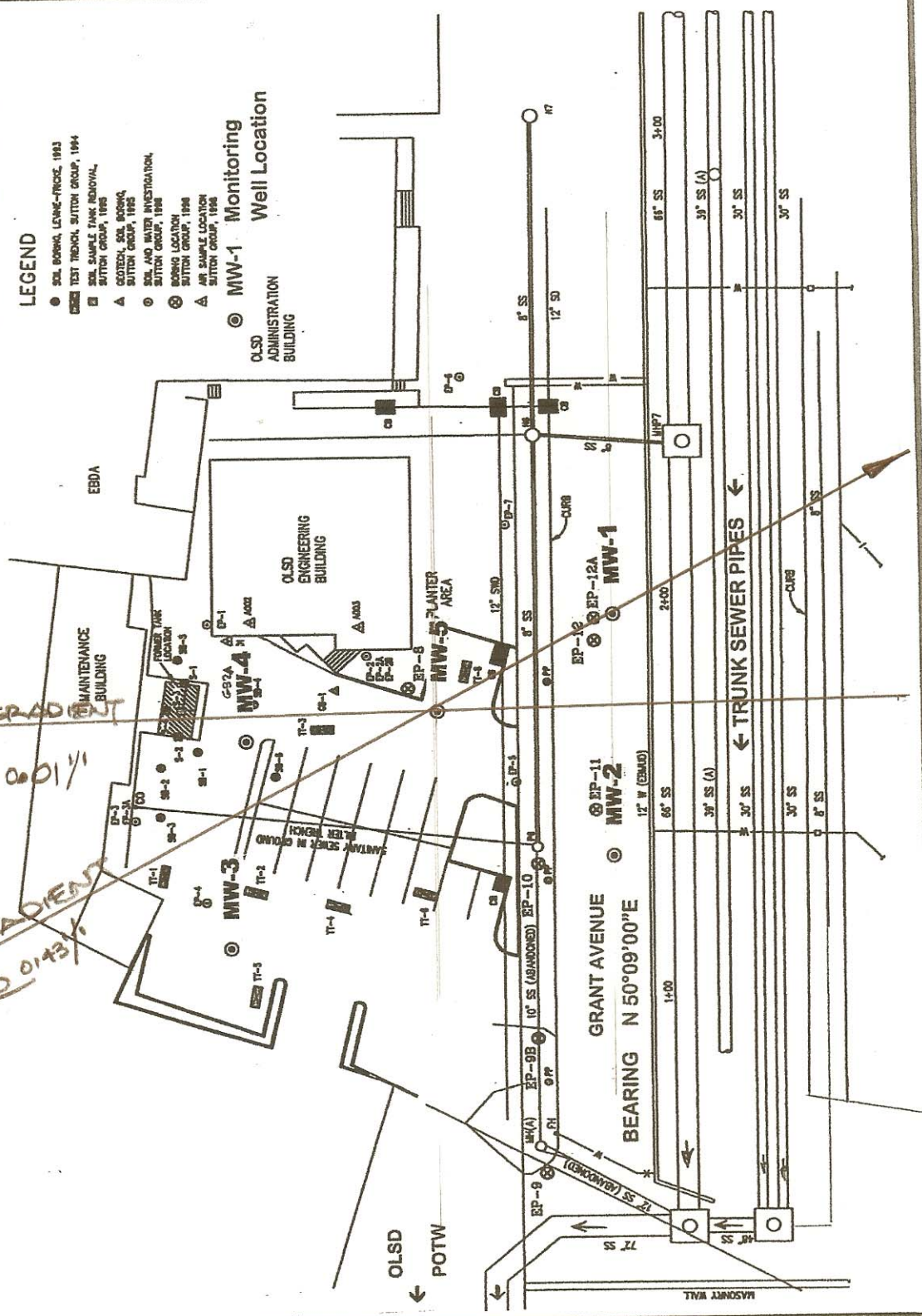
**LEGEND**

- SOIL BORING, LEVING-PROBE, 1983
- ◻ TEST TRENCH, SUTTON GROUP, 1994
- SOIL SAMPLE TANK REMOVAL, SUTTON GROUP, 1995
- ▲ GEOTECH. SOIL BORING, SUTTON GROUP, 1995
- SOIL AND WATER INVESTIGATION, SUTTON GROUP, 1998
- ⊙ BORING LOCATION, SUTTON GROUP, 1998
- △ AIR SAMPLE LOCATION, SUTTON GROUP, 1998

⊙ MW-1 Monitoring Well Location

**ONSITE GRADIENT**  
 MW 3, 4, 5  
 S42°E @ 0.011%

**OFFSITE GRADIENT**  
 MW 1, 2, 5  
 S68°E @ 0.143%



**THE SUTTON GROUP**  
 Engineering and Environmental Services  
 3708 Mount Diablo Blvd, Suite 215  
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**WELL LOCATION PLAN**  
 SERVICE CENTER AREA  
 ORO LOMA SANITARY DISTRICT  
 2600 GRANT AVENUE,  
 SAN LORENZO, CA

PROJECT No. 3022.10

**FIGURE 2**

8/2/03



TABLE 1  
**GROUND WATER ELEVATIONS**  
**LOP Site No. RO000288**  
 All measurements are in feet

<i>Monitoring Well ID</i>	<b>MW1</b>	<b>MW2</b>	<b>MW3</b>	<b>MW4</b>	<b>MW5</b>	<i>Estimated Net</i>	
<i>Well Cover Rim Elevn*</i>	<b>8.37</b>	<b>8.48</b>	<b>9.91</b>	<b>9.40</b>	<b>8.62</b>	<i>Flow Direction, Gradient ft/ft</i>	
<i>Groundwater Elevation</i>							
<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 Meas.	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
<i>8<sup>th</sup> Quarterly 7/29/2004</i>	1.55	2.43	3.77	4.11	4.14	S52°W	0.006
<i>9<sup>th</sup> Quarterly 10/28/2004</i>	-0.08	0.98	4.17	4.50	4.69	S63°E	0.087
<i>Special Sampling 12/8/2004</i>	-0.74	-0.83	Not Meas.	Not Meas.	Not Meas.	Not Meas.	Not Meas.
<i>10<sup>th</sup> Quarterly 1/24/2005</i>	0.79	2.75	5.64	5.83	4.74	S27°E	0.03
<i>11<sup>th</sup> Quarterly 4/28/2005</i>	1.37	3.02	5.15	5.19	4.52	S40°E	0.023
<i>12<sup>th</sup> Quarterly 7/19/2005</i>	1.18	2.37	4.31	4.48	4.32	S59°E	0.063
<i>13<sup>th</sup> Quarterly 10/26/2005</i>	0.79	1.72	3.69	4.10	4.20	S64°E	0.065
<i>14<sup>th</sup> Quarterly 1/30/2006</i>	1.72	3.17	4.85	4.92	4.24	S73°E	0.05
<i>15<sup>th</sup> Quarterly 4/18/2006</i>	2.17	3.44	5.94	5.09	4.25	S78°E	0.025
<i>16<sup>th</sup> Quarterly 7/19/2006</i>	1.55	2.88	4.41	4.57	4.13	S69E	0.048
<i>17<sup>th</sup> Quarterly 10/26/2006</i>	1.17	2.63	3.47	3.92	5.38	A: S30W @ .054	B: S76E @ .087
<i>18<sup>th</sup> Quarterly 1/15/2007</i>	1.35	3.20	4.84	4.73	4.37	A: S64E @ .007	B: S87E @ .055
<i>19<sup>th</sup> Quarterly 4/19/2007</i>	1.72	3.39	6.06	5.20	4.05	A: S70E @ .036	B: S85E @ .044
<i>20<sup>th</sup> Quarterly 7/19/2007</i>	1.10	1.70	3.38	3.52	3.35	A: S63E @ .074	B: S7E @ -.004
<i>21<sup>st</sup> Quarterly 10/17/2007</i>	1.02	2.98	3.38	3.61	4.08	S76E @ .058	N72E @ .035
<i>22<sup>nd</sup> Quarterly 1/15/2008</i>	1.34	3.00	4.61	4.73	4.02	S71E @ .050	S47E @ .017
<b>Current (23 rd) reading on 4/15/2008</b>							
<i>Groundwater Depth</i>	7.04	6.01	5.75	4.97	4.98		
<i>Groundwater Elevation</i>	<b>1.33</b>	<b>2.47</b>	<b>4.16</b>	<b>4.43</b>	<b>3.64</b>	<b>S68E @ .43</b>	<b>S43E @ .01</b>
<i>Change Since 1/15/2008</i>	-0.01	-0.53	-0.45	-0.30	-0.38		
<i>Change since same Qtr, last year</i>	-0.39	-0.92	-1.90	-0.77	-0.41		

\* Wells re-surveyed 03/08/2007 based on NGS Station Loma (HT3751). New rim elevations were 0.27-0.30 feet "lower".

Elevations beginning April 2007 reflect the new elevations. Previously tabulated readings have not been changed.

MW-4 was closed/abandoned 4/17/2008. See separate report

\* "Onsite gradient" is interpreted to be the natural gradient due to baylands and San Francisco Bay.

"Offsite gradient" reflects the dewatering effect of the gravel-bedded sanitary sewer trunk lines beneath Grant Avenue.

**QTR 23, 4/15/2008: Two gradients were calculated:**

**S68E is from MW1,2 and 5 as previous "offsite"**

**S43E is Gradient from MW 3,4,5**

TABLE 2

**TABLE 2**  
**LOP Site No. R0000288**

**SUMMARY OF GROUND WATER SAMPLE ANALYSES**  
**total petroleum hydrocarbons as gasoline, btex and mtbe**

EPA METHOD 8015Cm /8021  
 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>Dilution Factor</b>
<b>MW-1</b>	4/15/2008	n/a	n/a	n/a	n/a	n/a	n/a	1
<b>MW-2</b>	4/15/2008	n/a	n/a	n/a	n/a	n/a	n/a	1
<b>MW-3</b>	4/15/2008	n/a	n/a	n/a	n/a	n/a	n/a	1
<b>MW-4</b>	4/15/2008	32,000	8,300	89	1,900	2,400	ND<210	10
<b>MW-5</b>	4/15/2008	30,000	11,000	36	690	1,700	ND<50	10
<b>Trip Blank</b>	4/15/2008	ND	ND	ND	ND	ND	ND	1
<b>Reporting Limits for DF=1</b>		50	0.5	0.5	0.5	0.5	5	

**NOTES:**

ND Analyte not detected at stated reporting limit  
 n/a Not analyzed this round

ORO LOMA SANITARY DISTRICT  
 R00000288  
 Table 2

**TABLE 2A**  
**LOP Site No. R0000288**

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

total petroleum hydrocarbons as gasoline and mbtex  
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>	
<b>MW-1</b>	2/19/1999	nd	nd	nd	nd	nd	nd	
	5/10/1999	nd	nd	nd	nd	nd	nd	
	8/30/1999	n/a	nd	nd	nd	nd	nd	
	11/23/1999	nd	nd	nd	nd	nd	nd	
	dup	11/23/1999	nd	nd	nd	nd	nd	
	7/25/2003	nd	nd	nd	nd	nd	nd	
	10/30/2003	n/a	n/a	n/a	n/a	n/a	n/a	
	1/23/2004	nd	nd	nd	nd	nd	nd	
	4/27/2004	n/a	n/a	n/a	n/a	n/a	n/a	
	7/29/2004	nd	nd	nd	nd	nd	nd	
	MP	10/28/2004	N A	N A	N A	N A	N A	N A
		12/8/2004	nd	nd	nd	nd	nd	nd
	MP	1/24/2005	nd	nd	nd	nd	nd	nd
		4/28/2005	N A	N A	N A	N A	N A	N A
		7/19/2005	nd	nd	nd	nd	nd	nd
		10/6/2005	N/A	N/A	N/A	N/A	N/A	N/A
		1/30/2006	ND	ND	ND	ND	ND	ND
		4/18/2006	N/A	N/A	N/A	N/A	N/A	N/A
		7/19/2006	ND	ND	ND	ND	ND	ND
		10/26/2006	n/a	n/a	n/a	n/a	n/a	n/a
	1/15/2007	ND	ND	ND	ND	ND	ND	
	4/19/2007	NA	NA	NA	NA	NA	NA	
	7/19/2007	ND	ND	ND	ND	ND	ND	
	10/17/2007	n/a	n/a	n/a	n/a	n/a	n/a	
	1/15/2008	ND	ND	ND	ND	ND	ND	
	<b>4/15/2008</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	
<b>MW-2</b>	<i>Sample Date</i>	<i>Gasoline</i>	<i>Benzene</i>	<i>Toluene</i>	<i>EBenzene</i>	<i>Xylenes</i>	<i>MTBE</i>	
	2/19/1999	nd	nd	nd	nd	nd	nd	
	5/10/1999	nd	nd	nd	nd	nd	nd	
	8/30/1999	n/a	nd	nd	nd	nd	nd	
	11/23/1999	nd	nd	nd	nd	nd	nd	
	7/25/2003	nd	nd	nd	nd	nd	< 1	
	10/30/2003	n/a						
	1/23/2004	nd	nd	nd	nd	nd	nd	
	4/27/2004	n/a	n/a	n/a	n/a	n/a	n/a	
	7/29/2004	nd	nd	nd	nd	nd	nd	
	MP	10/28/2004	ND	ND	ND	ND	ND	ND
		12/8/2004	ND	ND	ND	ND	ND	1.5

ORO LOMA SANITARY DISTRICT, R0000288

Table 2A

OLSD #23-2008-Q2, Tables 1-2-3.xls 5/4/2008



MP	1/24/2005	ND	ND	ND	ND	ND	9	
	4/28/2005	n a	n a	n a	n a	n a	n a	
	7/19/2005	nd	nd	nd	nd	nd	nd	
	10/6/2005	N/A	N/A	N/A	N/A	N/A	N/A	
	1/30/2006	ND	ND	ND	ND	ND	ND	
	4/18/2006	N/A	N/A	N/A	N/A	N/A	N/A	
	7/19/2006	ND	ND	ND	ND	ND	ND	
	10/26/2006	n/a	n/a	n/a	n/a	n/a	n/a	
	1/15/2007	ND	ND	ND	ND	ND	ND	
	4/19/2007	NA	NA	NA	NA	NA	NA	
	7/19/2007	ND	ND	ND	ND	ND	ND	
	10/17/2007	n/a	n/a	n/a	n/a	n/a	n/a	
	<b>1/15/2008</b>	<b>ND</b>	<b>ND</b>	<b>1.3</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	
	4/15/2008	n/a	n/a	n/a	n/a	n/a	n/a	
<b>MW-3</b>	<b>Sample Date</b>	<b>Gasoline</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ebenzene</b>	<b>Xylenes</b>	<b>MTBE</b>	
	2/19/1999	nd	nd	nd	nd	nd	1.5	*1
dup	2/19/1999	nd	nd	nd	nd	nd	n/a	
	5/10/1999	nd	nd	nd	nd	nd	1.5	*2
	8/30/1999	n/a	nd	nd	nd	nd	nd	
	11/23/1999	nd	nd	[.69]*	[.58]*	[1.3]*	nd	*3
	1/6/2000	nd	nd	nd	nd	nd	3.14	*4
Dup	1/6/2000	nd	nd	nd	nd	nd	2.64	*4
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	
	7/25/2003	nd	nd	nd	nd	nd	1.1	
	10/30/2003	n/a	n/a	n/a	n/a	n/a	n/a	
	1/23/2004	n/a	n/a	n/a	n/a	n/a	n/a	
	4/27/2004	n/a	n/a	n/a	n/a	n/a	n/a	
	7/29/2004	ND	6.4	ND	ND	ND	8.8	
MP	10/28/2004	390	170	0.7	nd	2.4	57	
	12/8/2004	N/A	N/A	N/A	N/A	N/A	N/A	
MP	1/24/2005	520	260	0.53	nd	1.9	89	
	4/28/2005	220	110	ND	ND	0.63	54	
	7/19/2005	760	370	0.68	ND	2.6	92	
	10/6/2005	190	71	ND	ND	ND	49	
	1/30/2006	300	130	0.74	ND	2.5	71	
	4/18/2006	380	190	1.0	nd	4.0	66	
	7/19/2006	140	61	ND	0.57	0.89	44	
	10/26/2006	91	20	nd	0.55	3.5	46	
	1/15/2007	ND	3.8	ND	ND	ND	32	
	4/19/2007	52	2.9	ND	ND	ND	57	
	7/19/2007	ND	2.6	ND	ND	ND	47	
	10/17/2007	55	1.5	ND	ND	1.3	42	
	1/15/2008	ND	ND	ND	ND	ND	40	
	<b>4/15/2008</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	

<b>MW-4</b>	<b>Sample Date</b>	<b>Gasoline</b>	<b>Benzene</b>	<b>Toluene</b>	<b>EBenzene</b>	<b>Xylenes</b>	<b>MTBE</b>
	10/21/2002	n/a	5,800	6,200	3,500	18,000	140
	1/28/2003	n/a	7,200	3,500	2,700	15,000	130
	4/28/2003	n/a	5,700	850	ND<120	10,000	200
	7/25/2003	97,000	11,000	8,400	4,900	24,000	nd<250
	10/30/2003	77,000	12,000	9,300	3,200	16,000	nd < 200
	1/23/2004	100,000	16,000	10,000	1,100	19,000	nd < 1,200
	4/27/2004	78,000	13,000	7,800	3,200	17,000	nd < 1,000
	7/29/2004	46,000	8,300	2,100	2,000	7,900	nd<500
MP	10/28/2004	80,000	15,000	7,100	3,500	14,000	ND<1,000
	12/8/2004	n/a	N/A	N/A	N/A	N/A	n/a
MP	1/24/2005	70	9,900	850	2,500	11,000	ND<1,000
	4/28/2005	79,000	9,400	690	4000	16,000	nd<900
	7/19/2005	35,000	7,500	92	1,900	3,900	nd<500
	10/6/2005	65,000	12,000	2,100	3,200	11,000	ND<500
	1/30/2006	45,000	9,800	380	2,400	6,500	nd<130
	4/18/2006	58,000	7,100	420	3,900	13,000	nd < 500
	7/19/2006	71,000	10,000	520	4,900	18,000	ND<500
	10/26/2006	89,000	13,000	1600	4,300	19,000	nd< 800
	1/15/2007	65,000	10,000	570	3,300	13,000	nd< 250
	4/19/2007	52,000	9,400	300	3,600	8,900	ND<600
	7/19/2007	21,000	4,500	26	1,100	370	ND<240
	10/17/2007	28,000	5,900	87	1,700	1400	ND<240
	1/15/2008	46,000	9,200	220	2,600	5800	ND<250
	<b>4/15/2008</b>	<b>32,000</b>	<b>8,300</b>	<b>89</b>	<b>1,900</b>	<b>2,400</b>	<b>ND&lt;210</b>

**NOTE MW4 was closed / abandoned 4/17/2008**

<b>MW-5</b>	<b>Sample Date</b>	<b>Gasoline</b>	<b>Benzene</b>	<b>Toluene</b>	<b>EBenzene</b>	<b>Xylenes</b>	<b>MTBE</b>
	10/21/2002	65,000	12,000*	20,000*	1,600*	7,100*	ND<100
	1/28/2003	n/a	9,100	6,600	720	4,000	ND<100
	4/28/2003	n/a	12,000	8,300	ND<250	2,100	ND<250
	7/25/2003	62,000	13,000	14,000	1,300	5,200	nd<250
	10/30/2003	33,000	7,500	2,200	490	1,600	nd < 100
	1/23/2004	97,000	18,000	20,000	ND<120	7,900	nd < 1,200
	4/27/2004	39,000	12,000	11,000	920	4,300	nd < 1,000
	7/29/2004	47,000	11,000	5,500	690	2,800	nd < 1,000
MP	10/28/2004	130,000	23,000	25,000	2,000	9,700	ND<
	12/8/2004	n/a	n/a	N/A	N/A	N/A	N/A
MP	1/24/2005	150,000	22,000	25,000	2,100	12,000	nd<1,000
	4/28/2005	89,000	18,000	11,000	1,600	8,900	nd < 500
	7/19/2005	39,000	11,000	200	710	1,700	nd < 500
	10/6/2005	58,000	17,000	410	1,000	6,600	ND<500
	1/30/2006	61,000	15,000	5,500	1,100	5,600	nd < 500
	4/18/2006	36,000	13,000	490	660	3,300	nd < 500
	7/19/2006	49,000	16,000	460	ND<50	7,700	ND<500
	10/26/2006	55,000	14,000	430	1200	6,700	nd<1,000
	1/15/2007	34,000	11,000	88	720	2,600	ND<250
	4/19/2007	29,000	11,000	63	700	2,200	ND<130
	7/19/2007	25,000	8,300	36	600	1,700	ND<50
	10/17/2007	32,000	9,200	57	650	1,900	ND<100
	1/15/2008	33,000	12,000	51	800	1,900	ND<250
	<b>4/15/2008</b>	<b>30,000</b>	<b>11,000</b>	<b>36</b>	<b>690</b>	<b>1,700</b>	<b>ND&lt;50</b>

ORO LOMA SANITARY DISTRICT, R00000288

Table 2A

OLSD #23-2008-Q2, Tables 1-2-3.xls 5/4/2008

NOTES:

nd	Analyte not detected at stated reporting limit
n/a	Not analyzed
u/n	Unless otherwise noted (Reporting limit)
MP	Sampling by Micro Purge technique
*1	Analyzed by EPA method 8260B, reporting limit was 1 µg/l.
*2	Estimated value below method reporting limit of 2 µg/l.
*3	Inconsistent contaminant pattern. Sample result spurious, re-sampled
*4	Reporting limit at 2.5 µg/l.

## TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME <i>ofc Loma Sanitary district</i>				PROJECT NUMBER <i>080415-WL-1</i>			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
<i>Myron L Ultrameter</i>	<i>6215747</i>	<i>4/15/08 0810</i>	<i>Ph 7.0 4.0 10.0 Cond 3900</i>	<i>Ph 7.0 4.0 10.02 Cond 3903</i>	<i>Yes</i>	<i>61.4°F</i>	<i>WL</i>
<i>2100f Turbidimeter (Hach)</i>	<i>070606023524</i>	<i>4/15/08 0815</i>	<i>0 Turbidity 20 100 800</i>	<i>19 100 800</i>	<i>Yes</i>	<i>—</i>	<i>WL</i>

*Wace*

P

# WELLHEAD INSPECTION CHECKLIST

Date 0804/05/08 Client SUTTON GROUP  
 Site Address 21000 Grant Ave San Lorenzo  
 Job Number 080415-WL1 Technician Will Lange

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW01	X	X						
MW02	+	X						
MW03	X							
MW04	+							
MW05	+							

NOTES:

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WELL GAUGING DATA

Project # 080415-WL1 Date 4/15/08 Client Sutton Group

Site 2600 Grant Ave San Lorenzo CA

Well ID	Time	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	Notes
MW#1	0832	2					<del>7.04</del> 7.04	<del>12.51</del> 12.01	TOB	60
MW#2	0839	2					6.01	15.22	 ↓	60
MW#3	0846	2				5.75	15.59	60		
MW#4	0855	2				4.97	14.02			
MW#5	0903	2				4.98	13.65			

## WELL MONITORING DATA SHEET

Project #: <u>080415-WL1</u>	Client: <u>Sutton Group</u>
Sampler: <u>WL</u>	Date: <u>4/15/08</u>
Well I.D.: <del>MW4</del> <sup>(WL)</sup> <u>MW4</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>14.02</u>	Depth to Water (DTW): <u>4.97</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]:	

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: _____
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<u>1.5</u> (Gals.) X	<u>3</u>	= <u>4.5</u> 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 (°F or °C)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
0912	62.6	6.8	5639	218	1.5	odor, yellow color
0914	64.4	6.3	8709	271	3.0	↓
0916	65.1	6.4	8815	158	4.5	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>4.5</u>	
Sampling Date: <u>4/15/08</u>	Sampling Time: <u>0920</u>	Depth to Water: <u>7.63</u>
Sample I.D.: <u>MW4</u>	Laboratory: Kiff CalScience Other <u>McC Campbell</u>	
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: <u>See COC</u>		
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>080415-WL1</u>	Client: <u>Sutton Group</u>
Sampler: <u>WL</u>	Date: <u>4/15/08</u>
Well I.D.: <u>MW5</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth (TD): <u>13.65</u>	Depth to Water (DTW): <u>4.98</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]:	

Purge Method: Bailer	Waterra	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: _____		

1.38 (Gals.) X 3 = 4.2 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 (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0930	65.1	7.2	796 µS	88	1.38	Yellow odor
0932	65.4	6.6	19.57 mS	50	2.76	Black odor
0934	66.4	6.6	2269 mS	106	4.2	↓

Did well dewater? Yes  No  Gallons actually evacuated: 4.2

Sampling Date: 4/15/08 Sampling Time: 0940 Depth to Water: 9.17

Sample I.D.: MW5 Laboratory: Kiff CalScience Other Mc Campbell

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

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





**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

The Sutton Group 3708 Mt. Diablo Blvd, Ste. 215 Lafayette, CA 94549	Client Project ID: #2600 Grant Ave., San Lorenzo	Date Sampled: 04/15/08
	Client Contact: John Sutton	Date Received: 04/16/08
	Client P.O.:	Date Reported: 04/21/08
		Date Completed: 04/17/08

**WorkOrder: 0804401**

April 21, 2008

Dear John:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: **#2600 Grant Ave., San Lorenzo,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

# BLAINE

TECH SERVICES, INC.

ANALYSIS 1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

0804401

CONDUCT ANALYSES TO DETECT

LAB: McCampbell DHS #

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

EPA  RWQCB  
 LIA  
 OTHER

CHAIN OF CUSTODY

BTS # 080415-W4

CLIENT: The Sutton Group

SITE: 2600 Grant Ave.  
 San Lorenzo, CA

C = COMPOSITE ALL CONTAINERS

TPH-G by 8015

BTEX by 8021

MTBE by 8021

SPECIAL INSTRUCTIONS

Invoice and Report to :The Sutton Group / John Sutton  
 Sample ID = Field Point Name  
 Please provide results in EDF format to John Sutton @  
 tuttongeo@sbcglobal.net  
 Global ID = T0600101928

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H <sub>2</sub> O	TOTAL	CONTAINERS	C = COMPOSITE ALL CONTAINERS	TPH-G by 8015	BTEX by 8021	MTBE by 8021								ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
✓ TB	4/15	0830	W	2	HCL voas		X	X	X								Trip Blank			
+ MW4	4/15	0920	W	3	HCL voas		X	X	X											
+ MW5	4/15	0940	W	3	HCL voas		X	X	X											

ICE 1" 8.4 ✓  
 GOOD CONDITION ✓  
 HEAD SPACE ABSENT ✓  
 DECHLORINATED IN LAB ✓  
 PRESERVATION VOAS | O & G | METALS | OTHER

SAMPLING COMPLETED	DATE 4/15	TIME 0945	SAMPLING PERFORMED BY	Will Lampe	RESULTS NEEDED	NO LATER THAN	Standard TAT					
RELEASED BY	[Signature]		DATE	4/15/08	TIME	1545	RECEIVED BY	[Signature] (sample custody)	DATE	4/15/08	TIME	1546
RELEASED BY	[Signature] (Sample Custodian)		DATE	4/16/08	TIME	1320	RECEIVED BY	[Signature]	DATE	4/16/08	TIME	1320
RELEASED BY	[Signature]		DATE	4-16-08	TIME	1615	RECEIVED BY	K. Burks	DATE	4/16/08	TIME	4:21
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #									

# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

**WorkOrder: 0804401**

**ClientCode: TSG**

WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

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

Email: [suttongeo@sbcglobal.net](mailto:suttongeo@sbcglobal.net)  
 TEL: (925) 944-2856    FAX: 925-284-4189  
 PO:  
 ProjectNo: #2600 Grant Ave., San Lorenzo

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

**Requested TAT: 5 days**

**Date Received: 04/16/2008**

**Date Printed: 04/17/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0804401-001	TB	Water	4/15/2008 8:30	<input type="checkbox"/>	A	A											
0804401-002	MW4	Water	4/15/2008 9:25	<input type="checkbox"/>	A												
0804401-003	MW5	Water	4/15/2008 9:40	<input type="checkbox"/>	A												

**Test Legend:**

1	G-MBTEX_W	2	PREFD REPORT	3		4		5	
6		7		8		9		10	
11		12							

**Prepared by: Kimberly Burks**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



**Sample Receipt Checklist**

Client Name: **The Sutton Group**

Date and Time Received: **4/16/2008 4:40:33 PM**

Project Name: **# 2600 Sutton Group**

Checklist completed and reviewed by: **Kimberly Burks**

WorkOrder N°: **0804401** Matrix Water

Carrier: Derik Cartan (MAI Courier)

**Chain of Custody (COC) Information**

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Sample IDs noted by Client on COC? Yes  No
- Date and Time of collection noted by Client on COC? Yes  No
- Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

- Custody seals intact on shipping container/cooler? Yes  No  NA
- Shipping container/cooler in good condition? Yes  No
- Samples in proper containers/bottles? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

- All samples received within holding time? Yes  No
- Container/Temp Blank temperature Cooler Temp: 8.4°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted
- Sample labels checked for correct preservation? Yes  No
- TTLC Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA

Client contacted:

Date contacted:

Contacted by:

Comments:



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Telephone: 877-252-9262 Fax: 925-252-9269

The Sutton Group  3708 Mt. Diablo Blvd, Ste. 215  Lafayette, CA 94549	Client Project ID: #2600 Grant Ave., San Lorenzo	Date Sampled: 04/15/08
	Client Contact: John Sutton	Date Received: 04/16/08
	Client P.O.:	Date Extracted: 04/16/08-04/18/08
		Date Analyzed: 04/16/08-04/18/08

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0804401

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	TB	W	ND	ND	ND	ND	ND	ND	1	91
002A	MW4	W	32,000,a	ND<210	8300	89	1900	2400	10	105
003A	MW5	W	30,000,a	ND<50	11,000	36	690	1700	10	120

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	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; p) see attached narrative.



### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0804401

EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 35040			Spiked Sample ID: 0804408-001A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>£</sup>	ND	60	102	84.2	19.0	109	102	6.98	70 - 130	20	70 - 130	20
MTBE	ND	10	110	105	4.69	108	106	2.23	70 - 130	20	70 - 130	20
Benzene	ND	10	95.2	96.2	1.11	98.5	92.8	5.97	70 - 130	20	70 - 130	20
Toluene	ND	10	95.4	97.5	2.14	110	104	6.11	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	93.7	94.7	1.04	109	102	7.24	70 - 130	20	70 - 130	20
Xylenes	ND	30	87.5	88.2	0.749	119	112	6.54	70 - 130	20	70 - 130	20
%SS:	95	10	108	108	0	92	93	1.14	70 - 130	20	70 - 130	20

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

#### BATCH 35040 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804401-001A	04/15/08 8:30 AM	04/17/08	04/17/08 9:27 AM	0804401-002A	04/15/08 9:25 AM	04/16/08	04/16/08 11:51 PM
0804401-002A	04/15/08 9:25 AM	04/18/08	04/18/08 3:20 AM	0804401-003A	04/15/08 9:40 AM	04/17/08	04/17/08 12:26 AM
0804401-003A	04/15/08 9:40 AM	04/18/08	04/18/08 3:53 AM				

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 enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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, or inconsistency in sample containers.