

20-288

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THE SUTTON GROUP

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

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Lafayette, CA, 94549

August 6, 2003

Alameda County
AUG 11 2003
Environmental Health

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

**Results 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, SG File No. 3022.9**

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 25, 2003. This is the 4th quarterly sampling of the two additional wells installed last October in the parking lot west of the District's Engineering Building. Additionally, at the request of Ms. Eva Chu of ACEP in the meeting on April 18, and the letter of the same date, the other three monitoring wells in this area and the monitoring well at the location of the former diesel tank were sampled.

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 August 27, 2002. Additionally, sampling of other wells was conducted in accordance with the request of Ms. Chu's April 18, 2003 letter.

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.

Sampling Results
Gasoline Tank Area

On July 25, 2003, ground water depths were measured in all 5 monitoring wells. 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. Bailers were replaced in 2 of the wells due to discoloration. Water samples were collected from all 5 wells in accordance with the approved work plan.

The attached Table 1 summarizes the ground water elevation data collected over the past year. The onset of summer resulted in water levels in the wells dropping by an average of 1½ feet. The wells also recharged very much more slowly. The gradient direction was calculated for various combinations of 3 wells. The range of directions, shown on Figure 2, is indicative of the influence of the gravel-filled trenches that bound the site, which act as groundwater sinks. The three wells upgradient of the Grant Avenue boundary indicate a gradient towards the Bay. Water levels in wells MW-1 and 2 in Grant Avenue indicate the strong influence of the gravel filled the trench that parallel the Grant Avenue boundary, and separates these wells from the site. Since 1997 both this firm and RWQCB Region 2 have been propounding that this trench acts as a interceptor of groundwater, controlling its gradient. On this basis, onsite gradients towards the trench would be much steeper than indicated by the measurements.

The five wells were each sampled and analyzed for gasoline, BTEX and MTBE. Additionally, all five wells were sampled for lead at ACEP's request. This is a one-time event. No lead was detected in any of the samples.

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 ground water depth was 3.3 feet below the rim, a fall of almost 2 feet in the quarter. This well is influenced by a dewatering pump well some 50 feet away. 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 was 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.

Conclusions and Future Sampling

The sample from the diesel tank well shows a very low presence of diesel, which is less than 20% of the reading made in 1996. We recommend that The District petition ACEP for closure of the diesel tank site without further sampling.

The wells in the former gasoline tank area continue to indicate that the contamination is contained on the Districts property by the barrier trenches. The wells

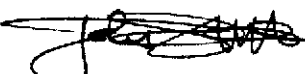
beyond the barrier continue to show no detection of gasoline or BTEX. MTBE at 1ppb in 2 wells in the continued absence of BTEX strongly suggests an anomaly.

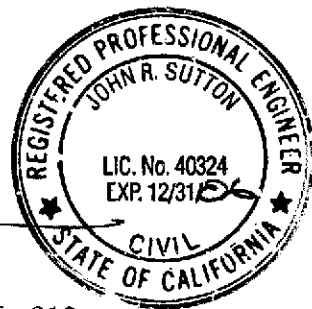
We were recently informed that ACEP's Ms. Chu has been re-assigned and that no new case officer has been assigned to this case. No response to our informational calls has been received. We previously expressed concern to the Agency over the changing of case officers, each with a different opinion, each has demanded additional tests. Ms. Chu was the case officer for only one quarter. On behalf of the District, I will request a meeting with the Agency's management to resolve long-unanswered requests for site closure. You will recall that the April meeting with Ms. Chu was to have included the division's supervisor. However, to Ms. Chu's surprise, the supervisor failed to attend.

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
Geotechnical Engineer No 812
License valid through 12/31/2006



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.

TABLE 1
GROUND WATER ELEVATIONS

All measurements are in feet

Monitoring Well ID	Rim Elevation *	Initial Sampling, 10/21/02	2nd Quarterly 1/28/03	3rd Quarterly 4/28/03	4th Quarterly Sampling, 7/25/03	
		Ground Water Elev'n	Ground Water Elev'n.	G Water Elev'n.	G Water Depth / G Water Elev'n.	Change Since Prev. Reading
MW 1	8.65	1.72	2.23	Not Measured	8.20 / 0.45	- 1.78
MW 2	8.75	2.04	2.65	3.18	6.40 / 2.35	- 0.83
MW 3	10.19	3.21	4.94	Not Measured	6.75 / 3.44	-1.50
MW 4	9.68	3.58	5.35	5.80	6.10 / 3.58	-1.22
MW 5	8.92	2.84	4.42	5.20	5.40 / 3.52	-1.68
Gradient, Direction		S21°E @ .016 ft/ft	S23°E @ .033 ft/ft	S22½°W @ .042 FT/FT	S18°W @ .027 ft/ft	

* Basis of elevations, Alameda County bench mark "Grant -Phil" at intersection of Grant Avenue and Phil Drive.

Elevation = 2.175meters, msl = 7.136 feet.

ORO LOMA SANITARY DISTRICT

3022.10 Q3 TABLE 1 elev Gwater 0703

TABLE 2
SUMMARY OF GROUND WATER SAMPLE ANALYSES
Samples Collected on July 25, 2003

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE

EPA METHOD 8015M /8260, 8020

results in µg/l (ppb)

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
MW-1	7/25/03	ND	ND	ND	ND	ND	ND < 0.5
MW-2	7/25/03	ND	ND	ND	ND	ND	0.95
MW-3	7/25/03	ND	ND	ND	ND	ND	1.1
MW-4	7/25/03	97,000	11,000	8,400	4,900	24,000	ND < 250
MW-5	7/25/03	62,000	13,000	14,000	1,300	5,200	ND < 250
MW-D 1	7/25/03	DIESEL: 90	ND	ND	ND	ND	NA
REPORTING LIMITS		1	0.5	0.5	0.5	0.5	0.5

NOTES:

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

TABLE 2A
CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE
 EPA METHOD 8015M/8020M (SAMPLES BEFORE 2001)
 EPA METHOD 8015M/8260 (SAMPLES SINCE 2002)

results in µg/l (ppb)

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
MW-1	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
DUP	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
MW-2	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
DUP	11/23/99	ND	ND	ND	ND	ND	ND
	7/25/03	ND	ND	ND	ND	ND	< 1
MW-3	2/19/99	ND	ND	ND	ND	ND	1.5 ¹
DUP	2/19/99	ND	ND	ND	ND	ND	N/A

NOTES:

- ND Analyte not detected at stated reporting limit
- N/A Not analyzed
- u/n Unless noted otherwise (Reporting Limit)
- 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.

TABLE CONTINUES OVERLEAF

TABLE 2A, Continued
CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
MW-3 CONT'D	5/10/99	ND	ND	ND	ND	ND	1.5 ²
	8/30/99	N/A	ND	ND	ND	ND	ND
	11/23/99	ND	ND	[0.69] ³	[0.58] ³	[1.3] ³	ND
DUP TRIP BLANK	1/6/00	ND	ND	ND	ND	ND	3.1 ⁴
	1/6/00	ND	ND	ND	ND	ND	2.6 ⁴
	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
MW-4	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
MW-5	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
REPORTING LIMITS		50.0	0.50	0.50	0.50	0.50	2.00 U/N

ORO LOMA SANITARY DISTRICT, STID 1996

302210 TABLE 2A for 0703:

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

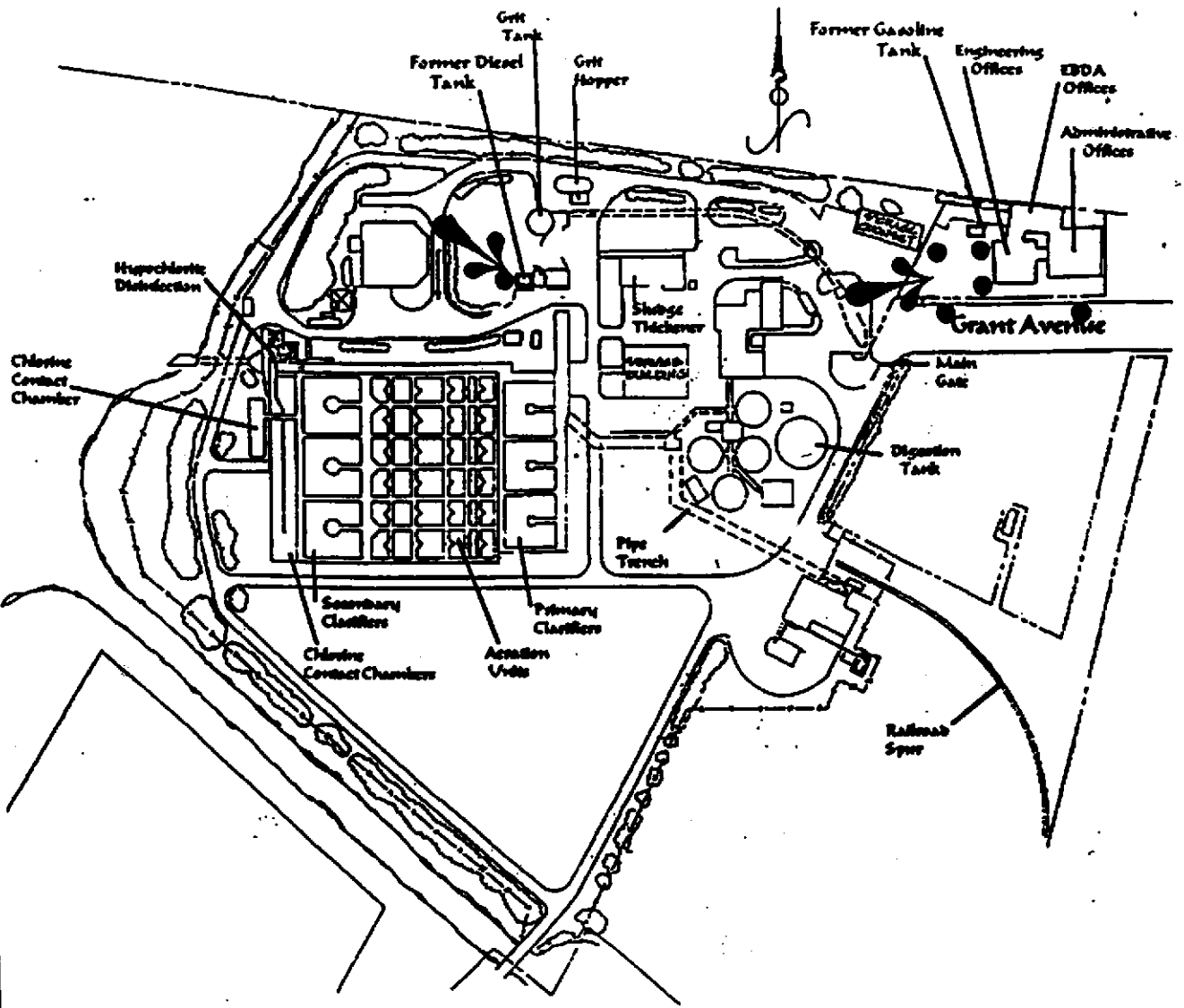
TOTAL PETROLEUM HYDROCARBONS AS DIESEL,

EPA METHOD 8015C, 8021

RESULTS IN µg/L (ppb)

<i>Sample Date</i>	<i>TPH as DIESEL</i>	<i>BTEX</i>
7/25/03	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.



SITE PLAN

● Monitoring Well Location

SCALE 1 IN. TO 250 FEET, APPROX

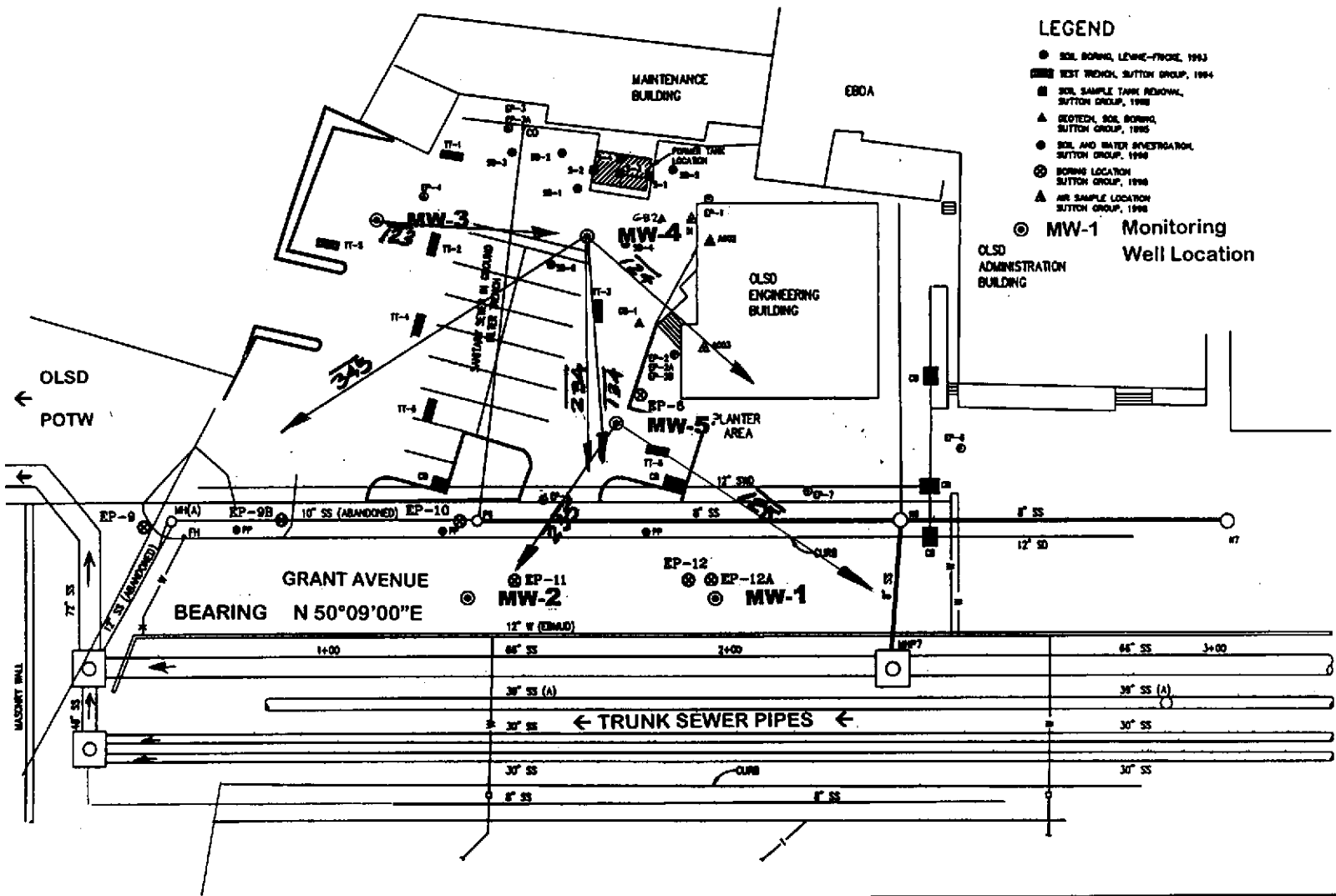
<p>THE SUTTON GROUP. 3708 Mount Diablo Blvd, Ste 215 Lafayette, CA, 94549 925 284-4208</p>	<p>SITE PLAN ORO LOMA SANITARY DISTRICT San Lorenzo, California</p>	<p>PROJECT No3022.10 FIGURE 1 5/21/03</p>
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WELLS	GRAD. F/FT	DIRECTION
123	034	N52°E
124	055	S82°E
125	033	N83°E
134	031	S41°E
235	020	S02°E
234	036	S94°E
345	027	S18°W

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



 McC Campbell Analytical Inc.	110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com
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The Sutton Group 3708 Mt. Diablo Blvd, Ste. 215 Lafayette, CA 94549	Client Project ID: #3022.10	Date Sampled: 07/25/03
		Date Received: 07/25/03
	Client Contact: John Sutton	Date Reported: 07/31/03
	Client P.O.:	Date Completed: 07/31/03

WorkOrder: 0307458

July 31, 2003

Dear John:

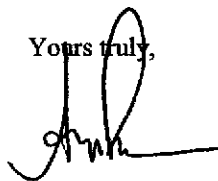
Enclosed are:

- 1). the results of 6 analyzed samples from your #3022.10 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



McC Campbell Analytical Inc.

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

The Sutton Group 3708 Mt. Diablo Blvd, Ste. 215 Lafayette, CA 94549	Client Project ID: #3022.10	Date Sampled: 07/25/03
		Date Received: 07/25/03
	Client Contact: John Sutton	Date Extracted: 07/28/03-07/30/03
	Client P.O.:	Date Analyzed: 07/28/03-07/30/03

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0307458

Lab ID	0307458-001B	0307458-002B	0307458-003B	0307458-004B	Reporting Limit for DF =1	
Client ID	MW-1 0725	MW-2 0725	MW-3 0725	MW-4 0725		
Matrix	W	W	W	W		
DF	1	1	1	500		

Compound	Concentration				ug/kg	ug/L
Benzene	ND	ND	ND	11,000	NA	0.5
Ethylbenzene	ND	ND	ND	4900	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	0.95	1.1	ND<250	NA	0.5
Toluene	ND	ND	ND	8400	NA	0.5
Xylenes	ND	ND	ND	24,000	NA	0.5

Surrogate Recoveries (%)

%SS1:	98.9	97.2	93.6	98.6	
%SS2:	98.4	97.3	90.0	99.1	
%SS3:	95.6	95.9	98.3	96.1	

Comments

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



McC Campbell Analytical Inc.

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

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

Client Project ID: #3022.10
Client Contact: John Sutton
Client P.O.:

Date Sampled: 07/25/03
Date Received: 07/25/03
Date Extracted: 07/28/03-07/30/03
Date Analyzed: 07/28/03-07/30/03

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0307458

Lab ID	0307458-005B				Reporting Limit for DF = 1		
Client ID	MW-5 0725						
Matrix	W						
DF	500					S	W

Compound	Concentration				ug/kg	ug/L
Benzene	13,000				NA	0.5
Ethylbenzene	1300				NA	0.5
Methyl-t-butyl ether (MTBE)	ND<250				NA	0.5
Toluene	14,000				NA	0.5
Xylenes	5200				NA	0.5

Surrogate Recoveries (%)

%SS1:	90.4				
%SS2:	101				
%SS3:	94.3				

Comments

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0307458

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 7958		Spiked Sample ID: 0307458-001A				
	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) [£]	ND	60	111	109	1.99	103	106	3.19	70	130
MTBE	ND	10	100	107	5.83	101	98.1	3.02	70	130
Benzene	ND	10	99.1	98.8	0.228	102	104	2.30	70	130
Toluene	ND	10	92.3	92.1	0.257	96.2	98.1	2.01	70	130
Ethylbenzene	ND	10	100	98.2	2.24	103	105	1.83	70	130
Xylenes	ND	30	95	91	4.30	95.7	99.7	4.10	70	130
%SS:	98.2	100	98.6	98.7	0.0475	98.9	99	0.161	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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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 = 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.



QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0307458

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 7952		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	95.3	99.4	4.26	70	130
%SS:	N/A	100	N/A	N/A	N/A	91.8	105	13.0	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.

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

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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.



QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0307458

EPA Method: SW8260B		Extraction: SW5030B		BatchID: 7956			Spiked Sample ID: 0307455-001A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Benzene	ND	10	119	116	2.64	120	114	4.96	70	130
Methyl-t-butyl ether (MTBE)	ND	10	123	122	1.01	123	117	5.31	70	130
Toluene	ND	10	124	120	3.43	126	121	4.56	70	130
%SS1:	88.3	100	108	108	0	106	104	2.08	70	130
%SS2:	87.6	100	98.9	97.7	1.29	98.5	98.6	0.152	70	130
%SS3:	95.8	100	99.9	95.8	4.15	102	97.8	4.51	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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR E200.9

Matrix: W

WorkOrder: 0307458

EPA Method: E200.9		Extraction: E200.9			BatchID: 7948		Spiked Sample ID: N/A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	N/A	0.010	N/A	N/A	N/A	95.6	100	4.70	70	130
<p>All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE</p>										

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not applicable to this method.

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.

McCAMPBELL ANALYTICAL INC.

110 2ND AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: JOHN SUTTON Bill To: Same
Company: The Sutton Group
3708 Mt Diablo Blvd, Ste 215
LAFAYETTE CA 94509 E-Mail: john@sutton.com
Tele: (925) 284-4208 Fax: (925) 284-4187
Project #: 3022.10 Project Name: mindspring.com
Project Location: OLSD
Sampler Signature: [Signature]

Analysis Request Other Comments

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED					Analysis Request											Other	Comments										
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other	TPH as Gas (8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 (BTEX & MPRE)	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals			LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI							
X MW-1-0725	MW1	7/25	12 ⁰⁰	3	VGA	/																													(ppb)	v. low		
" "	" "	" "	" "	1	500	/																													(ppb)	v. low		
X MW2-0725	MW2	7/25	11 ⁵⁰	3	VGA	/																													(ppb)	v. low		
" "	" "	" "	" "	1	500	/																														(ppb)	v. low	
X MW3-0725	MW3	7/25	2 ⁰⁰	3	VGA	/																														(ppb)	v. low	
" "	" "	" "	" "	1	500	/																														(ppm)	gasoline	
X MW4-0725	MW4	7/25	2 ⁵⁰	3	VGA	/																														(ppm)	some gas	
" "	" "	" "	" "	1	500	/																														(ppm)	some gas	
X MW5-0725	MW5	7/25	3 ³⁰	3	VGA	/																															(ppm)	some gas
" "	" "	" "	" "	1	500	/																															(ppm)	some gas
X MW-DJ-0725	MW-DJ	7/25	4 ⁰⁵	3	VGA	/																														(clean)	by 8020	
" "	" "	" "	4 ⁰⁵	1	1EA	/																														(ppb)		

BTEX & TPH as Gas (6020/8020 + 8015/8016)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 (BTEX & MPRE)	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI
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Relinquished By: [Signature] Date: 6/05 Time: 7/25 Received By: Metri Valleri

Relinquished By: Date: Time: Received By:

Relinquished By: Date: Time: Received By:

ICE/c GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB PRESERVATION APPROPRIATE CONTAINERS PERSERVED IN LAB

VOAS O&G METALS OTHER

McC Campbell Analytical Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0307458

Client:

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

TEL: 925-284-4208
 FAX: 925-284-4189
 ProjectNo: #3022.10
 PO:

Date Received: 7/25/03
Date Printed: 7/25/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests						
					E200_9	SW8015C	N8021B/8015C	SW8260B			
0307458-001	MW-1 0725	Water	7/25/03 12:00:00 PM	<input type="checkbox"/>	C			A	B		
0307458-002	MW-2 0725	Water	7/25/03 1:15:00 PM	<input type="checkbox"/>	C			A	B		
0307458-003	MW-3 0725	Water	7/25/03 2:00:00 PM	<input type="checkbox"/>	C			A	B		
0307458-004	MW-4 0725	Water	7/25/03 2:50:00 PM	<input type="checkbox"/>	C			A	B		
0307458-005	MW-5 0725	Water	7/25/03 4:30:00 PM	<input type="checkbox"/>	C			A	B		
0307458-006	MW-D1 0725	Water	7/25/03 4:05:00 PM	<input type="checkbox"/>		C		A	B		

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.

SAMPLE COLLECTION LOG

30 40 Eng
50
 02 01
 GRANT

Project Name	OLSD
Project Number	3022.10
Sampler Name	Sutton
Date of Sample Collection	7/25/03 Friday

Sample Number	MW-1 072503	115-1215
Sample Location		(1200)
Sample Media	Soil/Water/other	
Site Conditions	Sunny, 70's slight breeze	
Sample Collection Depth	Water depth below Rim. 8.2' TD = 13' 0" mud bailer.	
Sample Container	3x 40ml VOA 1x 1/2 hr PVC	
Intact or Disturbed Sample		
Sample Material Description	greenish tint no odor	
Collection Procedure	Dedicated Bailer jammed in bottom of well string broke - could not recover it $13 - 8.2 = 4.8$, $2" \Rightarrow 0.16 \text{ gal/ft} = 0.8 \text{ gal}$ $2" \text{ well: } 3 \text{ Vols} = 2.5 \text{ gal!}$ Set new bailer on new string.	
	$pH = 6.50$ $T = 74.0^{\circ}C$ $C = 5330 \mu S/cm$	
	*Temp probe checked against calibrated thermometer @ end of day. - checked OK.	
Proposed Lab. Analysis	G/S/TEX/M/HE/lead	

03 04
025 Bldg

SAMPLE COLLECTION LOG

#2 9

Project Name	OLSD	
Project Number	3022.10	
Sampler Name	Sutton	
Date of Sample Collection	7/25/03	FRU

Sample Number	MW-2-072503	1230-15
Sample Location	GRANT AV.	(1/5 PM)
Sample Media	Soil/Water/other	
Site Conditions		
Sample Collection Depth	W@ 6:40 ft V RIM 16' TD @ 0.16 gal/ft = 1.6 x 3 = 4.8 gal	
Sample Container	3x 40 ml VOA 1x 500 ml plastic	
Intact or Disturbed Sample		
Sample Material Description	gray cloudy, some Bay mud (black)	
Collection Procedure	deducted barrel	
	pH = 7.75	
	T = 80.7 °F	
	C = 6460 µS/cm	
Proposed Lab. Analysis	Gas BTEXNH ₄ & Lead	

SAMPLE COLLECTION LOG

Project Name	OLSD		
Project Number	3022-10		
Sampler Name	Sutton		
Date of Sample Collection	7/25/03	FRIDAY	11:52 ³⁰

Sample Number	MW-302503		
Sample Location	Aeg to TW Plt gate from Stg lot.		
Sample Media	Soil/Water/ other		
Site Conditions	Sunny, 70s NW breeze		
Sample Collection Depth	Water @ 6.75' ^{depth} TD = 16.1' D = 9.25' $x \cdot 16 \times 3 \text{ vol} = 4.8 \text{ gal}$		
Sample Container	3 x 40ml VOA 1 x 500ml plastic		
Intact or Disturbed Sample	Intact		
Sample Material Description	Lt green - no odor		
Collection Procedure	V. Slow Recovery Sample after 3 1/2 gal drawn		
	<p>pH = 7.15 T = 0.2 C = 3550</p> <p>→ Repl bailer & string (before sample)</p>		
Proposed Lab. Analysis	GasBTEX MIBK, lead		

SAMPLE COLLECTION LOG

Project Name	OLSD
Project Number	3022-10
Sampler Name	Sutton
Date of Sample Collection	July 25, 2003 Friday

Sample Number	MWS 071503
Sample Location	E side of PKG lot outside Tandy office
Sample Media	Soil/Water/other
Site Conditions	
Sample Collection Depth	5.40 - 14.5TD = 9.1' ^{20'}
Sample Container	X-16x3 = 4.5 gal.
Intact or Disturbed Sample	
Sample Material Description	glacial silt (less than #4), turbid water (gray/black)
Collection Procedure	Dedicated Barler
	PH 7.18
	T 74.8°F
	C 14,200
Proposed Lab. Analysis	Can PTEX, MTBE, Lead

260

SAMPLE COLLECTION LOG

Project Name	OUSD	
Project Number	3022110	
Sampler Name	Sutton	
Date of Sample Collection	July 25, 2003 (Fri)	
Sample Number	MW-D / 072503	340 → 415
Sample Location	7th Street Tank area	405 pm
Sample Media	Soil/ Water/ other	
Site Conditions	↓ 4" well	
Sample Collection Depth	Water @ 3.30' TD = 15.3 = 12' water	
Sample Container	@ 0.37 gpf	
Intact or Disturbed Sample	1x 1l amber glass	
Sample Material Description	3x 40ml VOA Dedicated Butler	
Collection Procedure	<p>PH = 7.90 T = 79.8° C = 47.20</p>	
* See calibration & notes on MW-4	<p>Diesel, BTEX 8020</p>	
Proposed Lab. Analysis		

$\frac{3}{12} \times \frac{3}{3} \times 3$
 $= 2.25!$