PHONE (925) 284-4208 (925) 284-4189 EMAIL:

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

December 18, 2002

Mr. Amir Gholami Alameda County Health Care Services EHS/Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, CA, 94502-6577

DEC 2 3 2002

New, Dec 23/01 your stope

STID 1996

Subject

Transmittal of Well Installation Report

Site of Former 1,000 Gal. UST

Oro Loma Sanitary District's Maintenance Facility

2600 Grant Avenue, San Lorenzo, CA

SG File 3022.10

Dear Mr. Gholami:

At the request of our client, Oro Loma Sanitary District, we herewith submit for your review the report that describes installation of two additional monitoring wells at the subject site, well development and reports the initial sampling results. The work was described in our work plan, as amended, which you approved in a letter dated August 27, 2002.

Should you have questions or comments or if we can assist you further in your evaluation of this information please call me.

Yours truly,

THE SUTTON GROUP

ohn R. Sutton

Attachment: Report dated November 30, 2002

cc: Mike Cortez at OLSD, w/o attachment

THE SUTTON GROUP

PHONE (925) 284-4208 FAX (925) 284-4189

EMAIL:

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

3708 Mount Diablo Blvd Suite 215 Lafayette, CA, 94549

November 30, 2002

DEC 2 3 2002

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

Subject:

Report of Installation and Initial Sampling of

Supplementary Ground Water Monitoring Wells at

Former Gasoline Tank Site Closure 2600 Grant Ave., San Lorenzo, CA

OLSD PO No. 4911, SG File No. 3022.10

ST ID 1996

#### Dear Mr. Cortez:

We document herein the installation of two additional ground water monitoring wells in the general vicinity of the District's Engineering Department office building. These two wells supplement three wells installed in the same general area in 1999. Alameda County Health Department's Division of Environmental Protection (Agency) first requested these additional wells in their letter dated August 20, 2001.

This work was performed in accordance with our work plan for this project dated May 2, 2002, and an addendum dated July 28, 2002 that resulted from negotiations with the Agency. The amended work plan was approved by the Agency in their letter dated August 27, 2002. The Alameda County Public Works Agency's Water Resources Section issued Drilling Permit Number W02-1002, dated October 10, 2002 for installing the new wells. A copy is attached.

# Borings and Monitoring Well Installation

The two monitoring wells were constructed on October 16, 2002. Figure 1 is a site location map and Figure 2 shows the locations of these two new monitoring wells, as well as those of the three existing wells and the previous soil boring/exploratory trench locations installed to document site conditions since 1993. New wells MW-4 and MW-5 are located in the Engineering Office Building's parking lot, MW-4 being 10 feet southeast of the center of the former tank and MW-5 west of the south corner of the building. The wells were developed by surging and bailing, and sampled on October 21, 2002.

### Soil Samples

Soil Samples were collected from the borings during the drilling process. Selected soil samples were submitted for testing by Severn Trent Laboratory (formerly known as Chromalab) in accordance with the work plan. Results of these soil sample analyses are

ST ID 1996

November 30, 2002

Page 2

summarized on Table 1 and the laboratory test reports are appended. It should be noted that the deeper soil sample analyzed from each boring was later shown to be from deeper than the groundwater surface. The test results indicate a general absence of gasoline constituents in the soil samples collected from the borings at 3 feet depth, suggesting that leakage from the piping was confined to the immediate vicinity of the tank, which was excavated in 1995. The test results also indicate measurable concentrations of gasoline and its constituents in the soil samples from 8 feet depth, which as stated above, is below the groundwater table. The results indicate an order-of-magnitude greater presence in the hole closer to the source, as would be expected. Of note was the absence of MTBE.

#### Groundwater Samples.

Water samples were collected from each of the wells on October 20, 2002. All five monitoring wells were sounded prior to any bailing. The new wells were then surged for 15 minutes using a 2 inch surge block. The new wells were then purged by bailing, however both wells being in bayland soils, i.e. Bay Mud clays with some sand lenses, responded slowly. And while well 10 casing volumes (12 gallons) erer drawn from MW-4, only about 4 gallons could be drawn from MW-5 over a period of 4 hours. Water in both wells was turbid at the time of sampling.

As was expected based on previous soil and grab ground water samples in this area of the site, the well water samples contain gasoline and its key constituents. Tables 2 and 2 A provide a summary of the water sample analyses. Notable is the very low concentration of MTBE as compared to the overall gasoline constituents' presence. MTBE was present in the well water sample closest to the tank, but it was absent in the other well sample more distant from the source. Benzene was present at a greater concentration in the well further from the source but this may relate to sampling and the slow recharge of the well by the time of sampling. Benzene concentrations in ground water are also plotted as iso-lines on Figure 2, which is partially based on data from previous on-site investigations.

Additionally, at the request of the Agency, we analyzed these initial water samples for the seven key gasoline oxygenate and additive compounds. The water samples from monitoring wells MW-4 and 5 were analyzed for TAME, DIPE, ETBE, TBA, EDB, EDC and Ethanol. Results of these analyses are summarized as Table 2A. As shown on the table none of the seven compounds was present. This concurs with the initial sample results from MW-1, 2 and 3.

#### Well Head Survey

At the request of Alameda County, a licensed surveyor was engaged to more accurately locate the 5 monitoring wells. The well covers were surveyed in relation to property landmarks, and the ground surface elevation was determined at each of the well covers.

ST ID 1996

November 30, 2002

Page 3

The well elevations and groundwater measurements were correlated to an Alameda County bench mark. The nearest County-verified bench mark is in Grant Avenue at Phil Drive (see Figure 1). Its elevation is 2.175m, or 7.136 ft per the County Surveyor. Our surveyor determined the elevations on the rim of each well cover relative to the bench mark. The distance from surface to the top of each well casing was then measured by this firm.

The wells were located and coordinates determined relative to the alignment of Grant Avenue. Maps from the County Assessor indicate the property lines along the last quarter mile of Grant Avenue are straight lines bearing N51° 04′ 10″E. As there was no local reference to the state coordinate system, the basis of coordinates was arbitrarily chosen as the south corner of the Engineering Building, which was assigned the coordinates N5,000 x E5,000 feet. A plot of the well locations in relation to the site infrastructure and the well cover elevations, as provided by the surveying firm of New and New Engineering, Inc., is appended. The well locations are also shown on Figure 2.

#### Flow Gradient

The depth to water in each of the five monitoring wells was measured prior to purging and sampling on October 21, 2002, and the water surface elevations calculated. The elevations are tabulated on Table 3. From the data, the direction of ground water flow was determined to be S21°E and the ground water gradient 0.016 ft/ft. It is of note that the same flow direction and gradient was obtained using any two of the three onsite wells and well MW-2 in Grant Avenue. This is the same general direction that was estimated from the ground surface elevations, and used in previous site evaluations related to the tank leakage over the past 9 years of investigation. The flow direction and gradient are shown on Figure 2.

Well MW-1 further inland on Grant Avenue, has a lower water surface elevation than MW-2. This difference has been consistent over the 3-year well sampling history. Use of MW-1 in lieu of MW-2 would result in a flow direction approximately southeast, suggestive of the 'cross-over via the sewer branch from the District's offices to the main trunk, as shown on Figure 2. As has been previously demonstrated, all groundwater flow is eventually to the District's POTW located to the southwest (Figure 1).

#### Future Sampling

The water sampling for gasoline and key constituents will be repeated on a quarterly basis in January, April and July 2003.

#### Certification

Borings, well construction and sampling were performed in accordance with the approved work plan and generally accepted practices currently used in the area. The

ST ID 1996

November 30, 2002

Page 4

work was performed under the oversight of John R. Sutton, a California-registered Civil and Geotechnical Engineer.

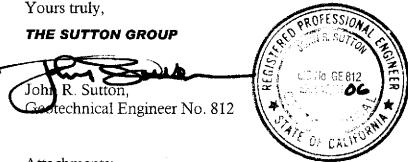
#### Distribution

A copy of this report should be submitted to Mr. Amir Gholami at Alameda County Health Agency in Alameda. Following District's review of this report, and upon your request, we will mail a copy the report to Mr. Gholami on the Districts behalf.

Copies of the boring logs and well Location Plan have been sent to Alameda County Public Works Agency, Water Resources Section, per their request.

\*\*\*\*

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



#### Attachments:

Table 1: Summary of Soil Sample Analyses

Table 2: Summary of Water Sample Analyses, Gas/BTEX, MTBE

Table 2A Summary of Water Sample Analyses, 7 Fuel Oxygenates

Table 3 Water Level Data

Figure 1: Site Location Map

Figure 2: Monitoring Well Locations and Benzene Plume Map

Well Construction Permit, Alameda County Public Works Agency

Well Log MW-4

Well Log MW-5

Well Survey Plan

Analytical Reports: Severn Trent Laboratory, Nov. 12, 13, 2002 (total 38 pages)

2 Copies Sent

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYSES: MONITORING WELL BORINGS, 2002

# TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX, MTBE

EPA METHOD 8260B/5030BM

RESULTS IN mg/kg (ppm)

SAMPLES COLLECTED 10/16/02

Sample ID and Depth	Gasoline	Benzene	Toluene	Ethyl Benzene	Xylenes (total)	МТВЕ
MW 4-1 SB 4 @ 3-3.5'	ND	ND	ND	ND	ND	ND
MW 4-2 SB 4 @ 8-8.5'	380*	13*	25*	37*	160*	ND
MW 5-1 SB 5 @ 3-3.5'	ND	39	ND	ND	ND	ND
MW 5-2 SB 5 @ 8-8.5"	24*	1.1*	0.19*	0.26*	0.63*	ND*
REPORTING LIMITS	1.0	0.005	0.005	0.005	0.005	0.005

<sup>\*</sup>ELEVATED REPORTING LIMITS USED. FOR LIMITS REFER TO LABORATORY CERTIFICATES IN APPENDIX C

ORO LOMA SANITARY DISTRICT
3022.10 rpt TABLE 2 Soil Oct 2002 11/13/02

# TABLE 2 SUMMARY OF WATER SAMPLE ANALYSES: MONITORING WELLS

# TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX, MTBE EPA METHOD 8260B/5030BM

RESULTS IN µg/L (ppb)

Well ID	Sample Date	Gasoline	Benzene	Toluene	Ethyl Benzene	Xylenes (total)	MTBE
MW 4	10/21/2002	64,000	5,800	6,200	3,500	18,000	140
MW 5	10/21/2002 65,000*		12,000*	20,000*	1,600*	7,100*	ND
REPOR	TING LIMITS	10,000	100	50	50	100	500

<sup>\*</sup> ELEVATED REPORTING LIMITS USED. FOR LIMITS REFER TO LABORATORY CERTIFICATES APPENDED

TABLE 2A
SUMMARY OF GROUND WATER SAMPLE ANALYSES, SHEET 2

# **SELECTED FUEL OXYGENATES AND ADDITIVES**

EPA METHOD 8260B / 5030B

RESULTS IN µg/L (ppb)

	Tert-Amyl Methyl Ether	Tert-Butyl Alcohol	Di-Isopropyl Ether	1,2 Dibromo Ethane	1,2 Dichloro Ethane	Ethanol	Ethyl Tert–Butyl Ether
Sample Location	(TAME)	(ТВА)	(DIPE	(EDB)	(EDC / 1,2 DCA)		(ETBE)
MW-4	ND	ND	ND	ND	ND	ND	ND
MW-5	ND	ND	ND	ND	ND	ND	ND
REPORTING LIMITS	100	1000	200	100	100	100	100

Samples collected 10/21/2002

ORO LOMA SANITARY DISTRICT STID 1996

3022.10 rpt TABLE 2A oxygenates oct2002 11/13/02

# TABLE 3 GROUND WATER ELEVATIONS

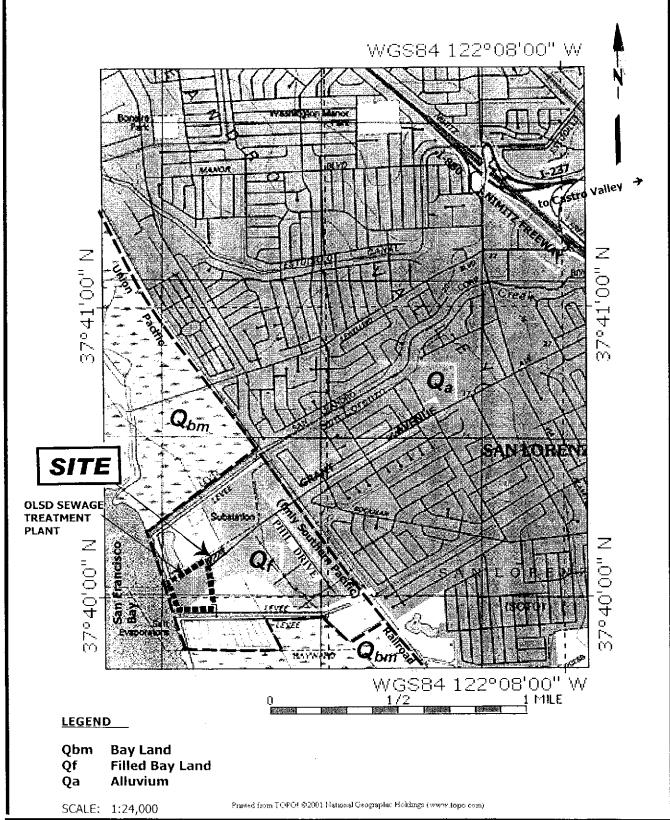
GROUND WATER MEASUREMENTS ON 10/21/02

ALL MEASUREMENTS ARE IN FEET

Monitoring Well	Rim Elevation*	Δ To Top Of Well Casing	TOC Depth To Ground Water	Adj. Depth To Ground Water	Ground Water Elevation
MW 1	8.65	.38	6.55	6.93	1.72
MW 2	8.75	.26	6.45	6.71	2.04
MW 3	10.19	.43	6.55	6.98	3.21
MW 4	9.68	.20	5.90	6.10	3.58
MW 5	8.92	.48	5.60	6.08	2.84

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 rpt TABLE 3 elev water 11/14/02



# THE SUTTON GROUP

Engineering and Environmental Services 3708 Mount Diablo Blvd, Suite 215 Lafayette, California, 94549 Phone: (925) 284-4208

Phone: (925).284-4208 Fax: (925).284-4189

# LOCATION MAP with GEOLOGY

ORO LOMA SANITARY DISTRICT SERVICE CENTER 2600 GRANT AVENUE, SAN LORENZO, CA PROJECT No. 3022.10

FIGURE 1

4/29/02



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 399 ELMHURST ST. IIAYWARD CA. 94544-1395 PHONE (510) 670-6633 James You

FAX (518)782-1939 APPLICANTS: PURASE ATTACK A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING TERMIT	APPLICATION
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT CRO LONA SANITARY DIST	PERMIT NUMBER WELL NUMBER APN
94580	PERMIT CONDITIONS Circled Permit Requirements Apply
CLIFFIT OR LOWA SANITALY DASTRET Name DROLOMA SANITALY DASTRET Phone 510 - 276-4700 City DA LUCENCO ZIP 4500  APPLICANT Name THE SUTTON GLOUP  Address 3708 MT DIPSIO RUPPhone 25 284-17408 City APPLICANT CA SIPERIOR SERVICES  THE SUTTON GLOUP  Address 3708 MT DIPSIO RUPPhone 25 284-17408  City APPLICANT  CA SIPERIOR SERVICES  THE SUTTON GLOUP  ADDRESS STOREST  THE SUTTON GLOUP  THE SUTTON GLOUP  ADDRESS STOREST  THE SUTTON GLOUP  THE SUTTON GLOUP  ADDRESS STOREST  THE SUTTON GLOUP  T	A. GENERAL  I. A permit application should be submitted so as to strive at the ACPWA office five days prior to proposed starting date.  2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources. Well Completion Report.  3. Permit is void if project not begun within 90 days of approval date  B. WATER SUPPLY WELLS  1. Minimum surface scal thickness is two inches of current grout placed by tremic.
Well Construction Cathodic Protection Water Supply Monitoring  Gentechnical Investigation General General General Contamination Well Destruction	2. Minimum heal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.  C. GROUNDWATER MONITORING WELLS INCLUDING PLEZOMETERS
PROPOSED WATER SUPPLY WELL USE New Domestic	1. Minimum surface seal thickness is two inches of coment grout placed by tremic. 2. Minimum scal depth for monitoring wells is the maximum depth practicable or 20 feet.  D. GROTECHNICAL.
ORBLING METHOD:  Mud Rolary   1	Backfill bore hole by tremie with coment grout or coment grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.  E. CATHODIC
DRILLER'S NAME: EVROPATION GEOSEWICES  DRILLER'S LICENSE NO. C57 — 484788	Fill hole anode zone with concrete placed by tremie.  F. WELL DESTRUCTION  Send a map of work site. A separate permit is required for wells deeper than 45 feet.  G-SPECIAL CONDITIONS
WELL, PROJECTS Drill Hole Diameter Casing Diameter Surface Seal Depth  A. ft.  Maximum Depth Surface Seal Depth A. ft. Owner's Well Number	NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.
SEOTECHNICAL PROJECTS Number of Borings	L) SUBATA SITE MAD WITH 5 days  APPROVED DATE 10-10-07
ESTIMATED COMPLETION DATE CCT 22 2502	/ / I II N
Thereby agree to comply with all requirements of this permit and Alamsela County Ordine  APPLICANT'S SKINATTURE THE BOY OF THE TOTAL OF	7/02 ( ( )

#### THE SUTTON GROUP

BORING and WELL CONSTRUCTION LOG

3708 Mt. Diablo Blvd, SUITE 215 lafayette, CA, 94549 (925) 284-4208

WELL No. MW-4

Sheet 1 of 1

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#### THE SUTTON GROUP

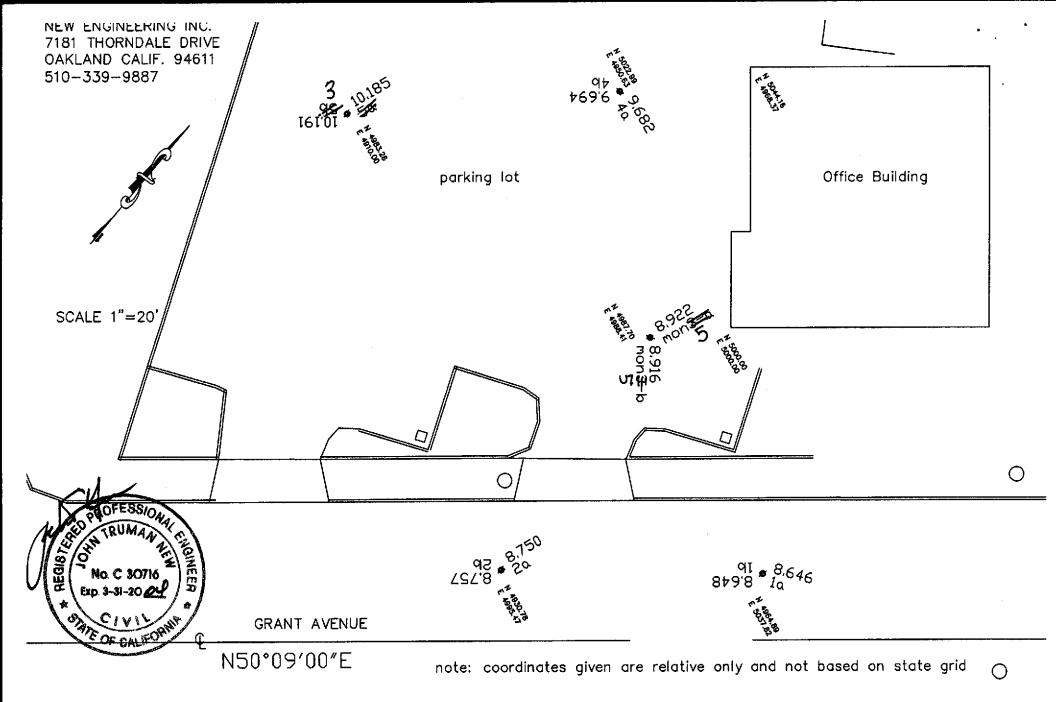
3708 Mt. Diablo Blvd, SUITE 215 lafayette, CA, 94549 (925) 284-4208

#### BORING and WELL CONSTRUCTION LOG

WELL No. MW-5

Sheet 1 of 1

Project No. 302210 Drilling Company Exploration Geoservices, Inc. Date Drilled 10/16/2002 Driller John Collins Lic. No. C57: 484288 Oro Loma Sanitary District Drill Rig Model Mobile B40 Client Drilling Method /Dia. 8"x31/4" Hollow stem auger Site address 2600 Grant Avenue Sampling Method 2" calif. San Lorenzo, CA, 94580 8.92 Eng/Mntc. Bldg Pkg. lot, nr SW cor. Eng bldg Rim Elevation Datum: msl Boring Location TOC= rim -0.48' Water depth 5.60' toc Logged By **JRS** John R. Sutton, GE No. 812 Time/Date 10/21/02 DEPT BLOWS A PID PPM CONSTR'N #, TYPE 6 IN./ N Asphalt over aggregate base to 1 1/2" (red brown), to 21/2 ft @1 1/2 C20 Becomes less firm at 21/2 ft @2 GP FILL, crushed rock to 2" max size, moist, little fines, blue green 6 8 13 14 Slight petroleum odor @31/21 BAYLAND, soft CLAY and SAND, strong sulfurous odor, black CH-@4' ОН As above, increased odor @7 C20 3 44 3 5 CH CLAY, silty, soft, some fine sand layers, mod to strong organic, -OH mod petroleum odor, wet, gray/black BAY MUD 10 10 16 @12 C20 BAYLAND Clay with peat, strong sulfurous odor 2 3 Strong petroleum odor on mud at auger tip @14 Total Depth drilled = 14 ft. 15 15 Fresh augers were used for each hole. **WELL CONSTRUCTION DETAILS** Surface: Cast iron MW cover set in concrete, locking cap. Blank pipe 0-11/2' concrete 0-4' 4'- 14' .010" well screen 11/2 '-31/2' bentonite chips\* 31/2'-14' #2/12 sand Bottom cap Chips hydrated with tap water SAMPLER Type: S = 2" OD SPT; CA = 2" ID California, 25 = 21/2" ID California, ST = Shelby, P = Pitcher Sample



ORO LOMA SANITARY DISTRICT

2600 GRANT AVENUE

SAN LORENZO, CA

monitoring wells ( typical of 5)
 note: two elevations are given at each well rim.

# TRENT LABORATORY

**STL San Francisco** 1220 Quarry Ln Pleasanton CA 94566

Tel.: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP#:2496

#### **Sutton Group**

3780 Mount Diablo BLVD suite 215 Lafayette, CA 94549

Attn.:

John Sutton

Project#:

3022.10

Submission#: 2002-10-0400

Project:

Oro Loma San. Dist

#### Mr. Sutton

Attached is our report for your samples received on 10/17/2002 17:35 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/01/2002 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil Project Manager

Fuel Oxygenates by 8260B

**Sutton Group** 

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project: 3022.10

Oro Loma San. Dist

SEVERN TRENT LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

#### Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
MW4-1 MW5-1	10/16/2002 10/16/2002	Soil Soil	1 3
MW5-2	10/16/2002	Soil	4 _

## Fuel Oxygenates by 8260B

**Sutton Group** 

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project: 3022.10

Oro Loma San. Dist

SEVERN TRENT

#### LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

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Matrix: Soil		2002/10/23-01.27
	보이는 [1] 11일 4.1. 41. 41. 41. 41. 41. 41. 41. 41. 41	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	10/23/2002 14:14	
Benzene	ND	5.0	ug/Kg	1.00	10/23/2002 14:14	
Toluene	ND	5.0	ug/Kg	1.00	10/23/2002 14:14	
Ethyl benzene	ND	5.0	ug/Kg	1.00	10/23/2002 14:14	
Total xylenes	ND	5.0	ug/Kg	1.00	10/23/2002 14:14	
Surrogates(s)					1	
1,2-Dichloroethane-d4	108.4	70-121	%	1.00	10/23/2002 14:14	
Toluene-d8	94.7	81-117	%	1.00	10/23/2002 14:14	

# Fuel Oxygenates by 8260B

**Sutton Group** 

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project: 3022.10

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LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030B	Test(s): 8260B
Completo: seate #	Lab ID: 2002-10-0400 - 3
Sample ID: MW5-1	
and the first of the first of the first section of the first that the first of the first the	
Sampled: 10/16/2002	Extracted: 10/23/2002 14:37
Sampled: 10/10/2002	
and the control of th	
Matrix: Soil	QC Batch#: 2002/10/23-01.27
	THA BANDA IN 1919 BING BANDA

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	10/23/2002 14:37	
Benzene	39	5.0	ug/Kg	1.00	10/23/2002 14:37	
Toluene	ND	5.0	ug/Kg	1.00	10/23/2002 14:37	
Ethyl benzene	ND	5.0	ug/Kg	1.00	10/23/2002 14:37	
Total xylenes	ND	5.0	ug/Kg	1.00	10/23/2002 14:37	
Surrogates(s)		]				
1,2-Dichloroethane-d4	110.6	70-121	%	1.00	10/23/2002 14:37	
Toluene-d8	93.4	81-117	%	1.00	10/23/2002 14:37	

Fuel Oxygenates by 8260B

**Sutton Group** 

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Sampled:

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CA DHS ELAP# 2496

Prep(s): 5030B

Sample ID: MW5-2

10/16/2002

Matrix: Soil

Analysis Flag: o (See Legend and Note Section)

Test(s): 8260B

Received: 10/17/2002 17:35

Lab ID: 2002-10-0400 - 4

Extracted: 10/23/2002 15:44 QC Batch#: 2002/10/23-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methyl tert-butyl ether (MTBE)	ND	20	ug/Kg	3.91	10/23/2002 15:44	
Benzene	1100	20	ug/Kg	3.91	10/23/2002 15:44	
Toluene	190	20	ug/Kg	3.91	10/23/2002 15:44	
Ethyl benzene	260	20	ug/Kg	3.91	10/23/2002 15:44	
Total xylenes	630	20	ug/Kg	3.91	10/23/2002 15:44	
Surrogates(s)		1				
1,2-Dichloroethane-d4	117.6	70-121	%	3.91	10/23/2002 15:44	
Toluene-d8	103.0	81-117	%	3.91	10/23/2002 15:44	

Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

	Batch Q(	C Report	
Prep(s): 5030B <b>Method Blank</b> MB: 2002/10/23-01.27-00	<b>S</b> č		Test(s): 8260B QC Batch # 2002/10/23-01.27 ite Extracted: 10/23/2002 12:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	10/23/2002 12:00	
Benzene	ND	5.0	ug/Kg	10/23/2002 12:00	
Toluene	ND	5.0	ug/Kg	10/23/2002 12:00	
Ethyl benzene	ND	5.0	ug/Kg	10/23/2002 12:00	
Total xylenes	ND	5.0	ug/Kg	10/23/2002 12:00	
Surrogates(s)	ļ				
1,2-Dichloroethane-d4	112.5	70-121	%	10/23/2002 12:00	
Toluene-d8	93.8	81-117	%	10/23/2002 12:00	

Fuel Oxygenates by 8260B

**Sutton Group** 

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CA DHS ELAP# 2496

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Received: 10/17/2002 17:35

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2002/10/23-01.27

LCS

2002/10/23-01.27-003

Extracted: 10/23/2002

Analyzed: 10/23/2002 11:10

LCSD

2002/10/23-01.27-004

Extracted: 10/23/2002

Analyzed: 10/23/2002 11:38

Compound	Conc.	ug/Kg	Exp.Conc.	Rec	overy	RPD	Ctrl.Lin	nits %	Flags		
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD	
Methyl tert-butyl ether (MTBE) Benzene Toluene	58.1 46.2 49.2	59.0 48.5 50.4	50.0 50.0 50.0	116.2 92.4 98.4	118.0 97.0 100.8	1.5 4.9 2.4	65-165 69-129 70-130	20			
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	564 486	566 478	500 500	112.8 97.2	113.2 95.6		70-121 81-117				

#### Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

Batch QC Report	
Prep(s); 5030B	Test(s): 8260B
Matrix Spike (MS / MSD) Soil	QC Batch # 2002/10/23-01.27
MW5-1 >> MS	Lab ID 2002-10-0400 - 003
MS: 2002/10/23-01 27-013 Extracted: 10/23/2002	Analyzed: 10/23/2002 14:59  Dilution: 1.00
MSD: 2002/10/23-01:27-016 Extracted: 10/23/2002	Analyzed: 10/23/2002 16:06 Dilution: 1,00

Compound	Conc.	·	ıg/Kg	Spk.Leve	F	Recover	у .	Limit	s %	Flags		
Compound	мѕ	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD	
Methyl tert-butyl ether Benzene Toluene	54.8 603 48.4	61.4 254 45.4	ND 38.6 ND	48.8 48.8 48.8	112.3 1156.6 99.2	126.6 444.1 93.6	12.0 89.0 5.8	65-165 69-129 70-130	20 20 20	mso	rpd	
Surrogate(s) 1,2-Dichloroethane-d4 Toluene-d8	571 475	610 476		500 500	114.2 95.0	122.0 95.1		70-121 81-117			sh	

## Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

#### Legend and Notes

Received: 10/17/2002 17:35

#### **Analysis Flag**

0

Reporting limits were raised due to high level of analyte present in the sample.

#### **Result Flag**

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

sh

Surrogate recovery was higher than QC limit due to matrix interference.

Gasoline

Sutton Group

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CA DHS ELAP# 2496

### Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
MW4-1	10/16/2002	Soil	1
MW5-1	10/16/2002	Soil	3

Gasoline

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Project: 3022.10

Matrix:

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Soil

4-Bromofluorobenzene-FID

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CA DHS ELAP# 2496

Test(s): 8015M Prep(s): 5035 Lab ID; 2002-10-0400 - 1 Sample ID: MW4-1

Received: 10/17/2002 17:35

QC Batch#: 2002/10/24-01.01

10/24/2002 13:42

10/24/2002 13:42 Extracted: Sampled: 10/16/2002

62.7

Analyzed Flag Unit Dilution Compound Conc. RL 1.00 10/24/2002 13:42 1.0 mg/Kg ND Gasoline Surrogates(s) 1.00

58-124

%

Gasoline

**Sutton Group** 

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CA DHS ELAP# 2496

Prep(s): 5035	Test(s):	80151	
Prep(s): 5035			
	Lab ID:		10-0400 - 3
Sample ID: MW5-1			
			<i>J</i> 2002 17:50
Sampled: 10/16/2002			
Matrix: Soil			/10/22-01.02

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	10/22/2002 17:50	
Surrogates(s)						
4-Bromofluorobenzene-FID	80.6	58-124	%	1.00	10/22/2002 17:50	

Gasoline

**Sutton Group** 

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Prep(s): 5035 Method Blank

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Project: 3022.10

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MB: 2002/10/22-01.02-006

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CA DHS ELAP# 2496

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Received: 10/17/2002 17:35

Date Extracted: 10/22/2002 10:32

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	10/22/2002 10:32	
Surrogates(s) 4-Bromofluorobenzene-FID	103.2	58-124	%	10/22/2002 10:32	

Gasoline

Sutton Group

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CA DHS ELAP# 2496

27.3	4.00	
Ва	tch	QC Report

Received: 10/17/2002 17:35

Prep(s): 5035 Method Blank

Soil

Test(s): 8015M QC Batch # 2002/10/24-01.01

MB: 2002/10/24-01.01-003

Date Extracted: 10/24/2002 07:49

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	10/24/2002 07:49	
Surrogates(s) 4-Bromofluorobenzene-FID	78.5	58-124	%	10/24/2002 07:49	

Gasoline

**Sutton Group** 

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CA DHS ELAP# 2496

#### **Batch QC Report**

Prep(s): 5035

Test(s): 8015M

**Laboratory Control Spike** 

Soil

QC Batch # 2002/10/22-01.02

LCS

2002/10/22-01.02-009

Extracted: 10/22/2002

Received: 10/17/2002 17:35

Analyzed: 10/22/2002 12:13

LCSD

2002/10/22-01.02-010

Extracted: 10/22/2002

Analyzed: 10/22/2002 12:47

Compound	Conc.	Conc. mg/Kg		Recovery		RPD	RPD Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Gasoline	0.444	0.537	0.500	88.8	107.4	19.0	75-125	35		
Surrogates(s) Trifluorotoluene-FID	411	492	500	82.2	98.4		53-125			

Gasoline

**Sutton Group** 

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CA DHS ELAP# 2496

Test(s): 8015M

	h Q		

Soil

Prep(s): 5035

Received: 10/17/2002 17:35

**Laboratory Control Spike** 

2002/10/24-01 01-004

Extracted: 10/24/2002

QC Batch # 2002/10/24-01.01

LCS

LCSD 2002/10/24-01.01-005

Extracted: 10/24/2002

Analyzed: 10/24/2002 08:45 Analyzed: 10/24/2002 09:14

Compound	Conc. mg/Kg Exp.Conc.		Rece	overy	RPD	Ctrl.Lin	nits %	Fla	igs	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Gasoline	0.479	0.494	0.500	95.8	98.8	3.1	75-125	35		
Surrogates(s) 4-Bromofluorobenzene-FID	363	366	500	72.6	73.2		58-124			

Gas/BTEX Compounds (High Level)

**Sutton Group** 

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CA DHS ELAP# 2496

#### **Samples Reported**

Sample Name	Date Sampled	Matrix	Lab#
MW4-2	10/16/2002	Soil	2
MW5-2	10/16/2002	Soit	4

Gas/BTEX Compounds (High Level)

Sutton Group

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CA DHS ELAP# 2496

Prep(s): 5030 Fest(s):	8015M
Sample ID: MW4-2	
	ed: 10/21/2002 11:00 ch#: 2002/10/21-05:02
Matrix: Soil QC Bat	CIH# 2002110/21-00.02

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	380	50	mg/Kg	5.00	10/22/2002 16:44	
Surrogates(s)				4.00		
4-Bromofluorobenzene-FID	370.2	58-124	%	1.00	10/22/2002 16:44	sh

Gas/BTEX Compounds (High Level)

**Sutton Group** 

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CA DHS ELAP# 2496

Prep(s): 5030

8015M Test(s):

Received: 10/17/2002 17:35

2002-10-0400 - 4

Sample ID: MW5-2 Sampled: 10/16/2002 Lab ID: Extracted: - 10/21/2002 11:00

Matrix: Soil QC Batch#: 2002/10/21-05.02

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	24	10	mg/Kg	1.00	10/21/2002 18:43	
Surrogates(s) 4-Bromofluorobenzene-FID	102.1	58-124	%	1.00	10/21/2002 18:43	

Gas/BTEX Compounds (High Level)

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Attn.: John Sutton

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CA DHS ELAP# 2496

			rrt.

Received: 10/17/2002 17:35

Prep(s): 5030 Method Blank

MB: 2002/10/21-05.02-001

Soil

Test(s): 8015M

QC Batch # 2002/10/21-05.02

Date Extracted: 10/21/2002 11:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	10/21/2002 19:17	
Surrogates(s) 4-Bromofluorobenzene-FID	118.6	58-124	%	10/21/2002 19:17	

# Gas/BTEX Compounds (High Level)

**Sutton Group** 

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CA DHS ELAP# 2496

		Batch QC R	eport -	
Prep(s): 5030				Test(s): 8015M
Laboratory C	그 이번 어젯밤을 살아 많아다.	Soil		C Batch # 2002/10/21-05.02 Analyzed: 10/22/2002 08:33
2 S A A A	)2/10/21-05.02-004 )2/10/21-05.02-005	419~41 : 이 교육 전 (전화기를 다음)		Analyzed: 10/22/2002 09:58

Compound	Conc.	mg/Kg	Exp.Conc.	Rec	overy	RPD	Ctrl.Lim	nits %	Fla	gs
Compound	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Gasoline	0.508	0.568	0.625	81.3	90.9	11.1	75-125	35		
Surrogates(s) 4-Bromofluorobenzene-FID	599	582	500	119.8	116.4		58-124	0		

Gas/BTEX Compounds (High Level)

**Sutton Group** 

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CA DHS ELAP# 2496

#### Legend and Notes

Received: 10/17/2002 17:35

#### **Result Flag**

sh

Surrogate recovery was higher than QC limit due to matrix interference.

POSH.

## Gas/BTEXFuel Oxygenates by 8260B (High Level)

**Sutton Group** 

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafavette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project: 3022.10

Oro Loma San. Dist

SEVERN TRENT LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

#### Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
MW4-2	10/16/2002	Soil	2

Received: 10/17/2002 17:35

## Gas/BTEXFuel Oxygenates by 8260B (High Level)

**Sutton Group** 

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project: 3022.10

Oro Loma San. Dist

SEVERN TRENT

### LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

				The second secon
_			TROUGH HAR BART AND STEED OF THE SALES	그가 그리다 장생님 그리는 그 얼마를 하다니 그는 일을 만들는 그 것들이 그래 하실만 없다면 하셨다고 모습니다.
			<ul> <li>A first state and filled elegation for</li> </ul>	그 하는 그 중요하는 하는 그 요즘 이 전 하는 것 같아. 하는 것 같아 없는 것 같아 없었다는 것 같아.
			Test(s):	8260B
	Prep(s): 5030B		PSHSI	azpup
	FIEDISI. DUBUD	and the second of the second		. 그 사회 부탁분高규칙 그 등 시간 사회 사업 기계 가장 되었다.
		At the first terms of the second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	海刺 一種 ちょうしょ 利利 あっしゅん しょうしょ かっぱ メンティー 佐 はばまた バール・ディング
		and the control of the particle of the control of t	the second production of the state of the second particles.	"我这一大的,我就是没有的大型的"我们"的"我们","我们"的"我们是不是我们,我们的"我们",我们就是这一个一个一个一个一个一个一个一个一个一个一个一个一个一
			A CARLO CALLO CONTRACTOR OF THE ACTION OF TH	and the control of th
		to the control of the first property of the	Lab ID:	2002-10-0400 - 2
	Comple District 2	,大大大,一大,一大的数字,将是"Condition"。		211112-111-1141111 - Z
	Sample ID: MW4-2	CARL CONTRACTOR STREET, TEACHING TO	A CONTRACT OF CONT	
			of a second field (1986) which is the first than the	la Sala de la Calabrata de Cala
		and the second of the second of the second	化环状性性结合 化氯酚磺胺甲基酚 化氯酚磺胺甲基酚	- 1954 (1954 1994) (1974 - 1957年1955) (1974 - 1975) (1974 - 1974) (1974 - 1974) (1974 - 1974) (1974 - 1974) (1
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	The state of the s	The second secon		4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
		2. A 12 A 12 MARKET NATIONAL	Lydractod	'
	Sampled: 10/16/2002			: 10/23/2002 13:30
	Campicus 10/10/2002			Termusi fortificação i impresentam esta formaticação inclusivada em antigação de la compansión de la capacidad
	The state of the s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		or in a partie part for the Medical Committee of the partie of the Committee of the Medical Committee of the
	and the second of the second o	THE PERSON OF TH	<ul> <li> 56 56 7 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</li></ul>	An and the stable and the self-self-self-self-self-self-self-self-
		3. 1 4 1 1 1 1 1 3 3 3 3 3		#: 2002/10/23-02.27
	Matrix: Soil	and the second of the second o		<b>Z</b> :
	Mairix Son	<ul> <li>Contract to Proceed a Company 1.3</li> </ul>	Talui	T. 2002/10/20 02:2/
	THOUSE. COU	1 A A 1 1 12 12 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	THE STATE OF THE PARTY OF THE P	44 HHR F 17000 TOWNSTON F 14 HE F 10 10 10 HIS HIS SECTION AS

Received: 10/17/2002 17:35

Analysis Flag: o ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzene Toluene Ethyl benzene Total xylenes Methyl tert-butyl ether (MTBE)	13000 25000 37000 160000 ND	2500 2500 2500 2500 2500	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	5.00	10/23/2002 13:30 10/23/2002 13:30 10/23/2002 13:30 10/23/2002 13:30 10/23/2002 13:30	
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	114.2 101.8	70-121 81-117	%	5.00 5.00	10/23/2002 13:30 10/23/2002 13:30	

### Gas/BTEXFuel Oxygenates by 8260B (High Level)

Sutton Group

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project: 3022.10

Oro Loma San. Dist

SEVERN TRENT

#### LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

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CA DHS ELAP# 2496

E	a	tc	h	(	)C	J	₹	<b>:</b> p	Ю	T	t		Ų.	40			d.			2		Ġ	
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					- 9		41	0.0	٠.;				1.	17		1.	Ĵ.	 74	×Ö.	~ Q	Œ,	11.	ú

Received: 10/17/2002 17:35

Prep(s): 5030B Method Blank

MB: 2002/10/23-02.27-017

Soil

Test(s): 8260B QC Batch # 2002/10/23-02.27

Date Extracted: 10/23/2002 16:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Benzene	ND	500	ug/Kg	10/23/2002 16:28	
Toluene	ND	500	ug/Kg	10/23/2002 16:28	
Ethyl benzene	ND	500	ug/Kg	10/23/2002 16:28	
Total xylenes	ND	500	ug/Kg	10/23/2002 16:28	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	10/23/2002 16:28	
Surrogates(s)	ŀ				
1,2-Dichloroethane-d4	120.0	70-121	%	10/23/2002 16:28	
Toluene-d8	114.6	81-117	%	10/23/2002 16:28	

## Gas/BTEXFuel Oxygenates by 8260B (High Level)

**Sutton Group** 

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Project: 3022.10

Oro Loma San. Dist

SEVERN TRENT

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Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

		Batch QC Repo	orit	
Prep(s):	5030B			Test(s): 8260B
Labora	tory Control Spike	Soil		h # 2002/10/23-02.27
LCS	2002/10/23-02.27-006		al de la company de la comp	red: 10/23/2002 12:23
LCSD	2002/10/23-02:27-007	Extracted: 10	/23/2002 Analyz	ced: 10/23/2002 12:45

Received: 10/17/2002 17:35

Compound	Conc.	ug/Kg	Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene Toluene Methyl tert-butyl ether (MTBE)	9790 10200 11100	10000 10000 11200	10000 10000 10000.0	97.9 102.0 111.0	100.0 100.0 112.0	2.1 2.0 0.9	69-129 70-130 65-165	20 20 20		
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	291 261	302 260	250 250	116.4 104.4	120.8 104.0		70-121 81-117			

## Gas/BTEXFuel Oxygenates by 8260B (High Level)

Sutton Group

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project: 3022.10

Oro Loma San. Dist

SEVERN TRENT

#### LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.sti-inc.com www.chromalab.com

CA DHS ELAP# 2496

### Legend and Notes

Received: 10/17/2002 17:35

#### **Analysis Flag**

0

Reporting limits were raised due to high level of analyte present in the sample.

Chain of Custody

DATE 10/16/02 PAGE \_ / OT \_ 1220 Quarry Lane • Pleasanton, California 94566-4756 CHROMALAB, INC. Environmental Services (SDB) (DOHS 1094) JOHN R. SUTTON, PE PURCEABLE HALOCARBONS ž, ž CONTAINERS PROJ. MGI THE SUTTON GROUP PRIORITY POLLUTANT 3708 Mount Diablo Blvd., Suite 215 COMPAN VOLATILE ORGANICS (EPA 624, 8240, 524.2) Lafayette, CA, 94549 TOTAL OIL & GREAS (EPA 5520, B+F, E+F) (925) 284-4208, FAX (925) 284-4189 ADDRES: TOTAL LEAD EXTRACTION NUMBER OF (TCLP, STLC) PESTICIDES (PHONE NO.) (FAX NO.) MATRIX PRESERV. TIME DATE ı٩ RELINQUISHED BY RELINQUISHED BY RELINQUISHED BY SAMPLE RECEIPT TOTAL NO OF CONTAINERS LOMA SAN DIST (TIME) (SIGNATURE) PROJECT NUMBER 3022:10 HEAD SPACE (PRINTED HAME) (DATE) REC'D GOOD CONDITION/COLD P.O. # CONFORMS TO RECORD COMPANY (COMPANY) RECEIVED BY (LABORATORY OTHER STANDARD RECEIVED BY 5-DAY SPECIAL INSTRUCTIONS/COMMENTS. (TIME) (TIME) Fax to: John Sutton Phone: See Above (SIGNATUPE) IPPINTED NAME 3,000 COMPANY



# Sample Receipt Checklist

STL San Francisco

Submission #: 2002- 10 - 0400	
Checklist completed by: (initials) R Date: 10, 18/02	
Courier name: ☑∕STL San Francisco □ Client	Nick
Custody seals intact on shipping container/samples	YesNoPresent
Chain of custody present?	YesNo
Chain of custody signed when relinquished and received?	YesNo
Chain of custody agrees with sample labels?	YesNo
Samples in proper container/bottle?	YesNo
Sample containers intact?	YesNo
Sufficient sample volume for indicated test?	YesNo
All samples received within holding time?	YesNo
Container/Temp Blank temperature in compliance ( $4^{\circ}$ C $\pm$ 2)?	Tempx <u>3.0</u> °C Yes <u>V</u> No
Water - VOA vials have zero headspace?	No VOA vials submitted Yes No No
Water - pH acceptable upon receipt? ☐ Yes ☐ No ☐ pH adjusted— Preservative used: ☐ HNO₃ ☐ HCl ☐ H₂SO₄ ☐ NaO! For any item check-listed "No", provided detail of discrepancy in cor	
Comments:	
Project Management [Routing for instruction of indi	cated discrepancy(ies)]
Project Manager: (initials) Date://02	
Client contacted: ☐ Yes ☐ No	·
Summary of discussion:	
Corrective Action (per PM/Client):	
	·

November 12, 2002

SEVERN
TRENT
LABORATORY

STL San Francisco 1220 Quarry Ln Pleasanton CA 94566

Tel.: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP#:2496

### **Sutton Group**

3780 Mount Diablo BLVD suite 215 Lafayette, CA 94549

Submission#: 2002-10-0486

Attn.:

John Sutton

Site:

2600 GRANT AVE

#### Mr. Sutton

Attached is our report for your samples received on 10/22/2002 18:15

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/06/2002 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil Project Manager

Fuel Oxygenates by 8260B

**Sutton Group** 

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project:

TRENT LABORATORY

SEVERN

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Received: 10/22/2002 18:15 Site: 2600 GRANT AVE

#### Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
MW-4	10/21/2002 13:00	Water	1
MW-5	10/21/2002 13:30	Water	2

Fuel Oxygenates by 8260B

**Sutton Group** 

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project:

Received: 10/22/2002 18:15

Site: 2600 GRANT AVE

SEVERN

TRENT LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

 Prep(s):
 5030B
 Test(s):
 8260B

 Sample ID:
 MW-4
 Lab ID:
 2002-10-0486 - 1

 Sampled:
 10/21/2002 13:00
 Extracted:
 10/28/2002 12:49

 Matrix:
 Water
 QC Batch#:
 2002/10/28-01.27

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	64000	5000	ug/L	100.00	10/28/2002 12:49	
tert-Butyl alcohol (TBA)	ND	500	ug/L	100.00	10/28/2002 12:49	
Methyl tert-butyl ether (MTBE)	140	50	ug/L	100.00	10/28/2002 12:49	
Di-isopropyl Ether (DIPE)	ND	100	ug/L	100.00	10/28/2002 12:49	
Ethyl tert-butyl ether (ETBE)	ND	50	ug/L	100.00	10/28/2002 12:49	
tert-Amyl methyl ether (TAME)	ND	50	ug/L	100.00	10/28/2002 12:49	1
1,2-DCA	ND	50	ug/L	100.00	10/28/2002 12:49	
EDB	ND	50	ug/L	100.00	10/28/2002 12:49	
Benzene	5800	50	ug/L	100.00	10/28/2002 12:49	
Toluene	6200	50	ug/L	100.00	10/28/2002 12:49	
Ethylbenzene	3500	50	ug/L	100.00	10/28/2002 12:49	
Total xylenes	18000	100	ug/L	100.00	10/28/2002 12:49	
Ethanol	ND	2500	ug/L	100.00	10/28/2002 12:49	
Surrogates(s)			1			
1,2-Dichloroethane-d4	100.9	76-114	%	100.00	10/28/2002 12:49	
Toluene-d8	101.7	88-110	%	100.00	10/28/2002 12:49	

Fuel Oxygenates by 8260B

Sutton Group

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project:

Received: 10/22/2002 18:15

Site: 2600 GRANT AVE

SEVERN TRENT

LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

 Prep(s):
 5030B
 Test(s):
 8260B

 Sample ID:
 MW-5
 Lab ID:
 2002-10-0486 - 2

 Sampled:
 10/21/2002 13:30
 Extracted:
 10/28/2002 13:11

 Matrix:
 Water
 QG Batch#:
 2002/10/28-01.27

Analysis Flag: o ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	65000	10000	ug/L	200.00	10/28/2002 13:11	
tert-Butyl alcohol (TBA)	ND	1000	ug/L	200.00	10/28/2002 13:11	
Methyl tert-butyl ether (MTBE)	ND	100	ug/L	200.00	10/28/2002 13:11	
Di-isopropyl Ether (DIPE)	ND	200	ug/L	200.00	10/28/2002 13:11	
Ethyl tert-butyl ether (ETBE)	ND	100	ug/L	200.00	10/28/2002 13:11	
tert-Amyl methyl ether (TAME)	ND	100	ug/L	200.00	10/28/2002 13:11	
1,2-DCA	ND	100	ug/L	200.00	10/28/2002 13:11	
EDB	ND	100	ug/L	200.00	10/28/2002 13:11	
Benzene	12000	100	ug/L	200.00	10/28/2002 13:11	
Toluene	20000	100	ug/L	200.00	10/28/2002 13:11	
Ethylbenzene	1600	100	ug/L	200.00	10/28/2002 13:11	
Total xylenes	7100	200	ug/L	200.00	10/28/2002 13:11	
Ethanol	ND	5000	ug/L	200.00	10/28/2002 13:11	
Surrogates(s)						1
1,2-Dichloroethane-d4	101.0	76-114	%	200.00	10/28/2002 13:11	
Toluene-d8	103.8	88-110	%	200.00	10/28/2002 13:11	

## Fuel Oxygenates by 8260B

**Sutton Group** 

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project:

Received: 10/22/2002 18:15

Site: 2600 GRANT AVE

## SEVERN TRENT LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tei: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report		
	- W. 65e0D	8
Prep(s): 5030B	Test(s): 8260B	
Method Blank QC Batcl	h # 2002/10/28-01. <b>2</b> 7	
	ted: 10/28/2002 12:04	
MB: 2002/10/28-01.27-006 Date Extract		í

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/28/2002 12:04	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/28/2002 12:04	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/28/2002 12:04	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	10/28/2002 12:04	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	10/28/2002 12:04	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	10/28/2002 12:04	
1,2-DCA	ND	0.5	ug/L	10/28/2002 12:04	
EDB	ND	0.5	ug/L	10/28/2002 12:04	
Benzene	ND	0.5	ug/L	10/28/2002 12:04	
Toluene	ND	0.5	ug/L	10/28/2002 12:04	
Ethylbenzene	ND	0.5	ug/L	10/28/2002 12:04	
Total xylenes	ND	1.0	ug/L	10/28/2002 12:04	
Ethanol	ND	25	ug/L	10/28/2002 12:04	
Surrogates(s)	ţ				
1,2-Dichloroethane-d4	103.2	76-114	%	10/28/2002 12:04	
Toluene-d8	104.1	88-110	%	10/28/2002 12:04	<u> </u>

Fuel Oxygenates by 8260B

Sutton Group

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project:

STL San Francisco 1220 Quarry Lane

Pleasanton, CA 94566

SEVERN

TRENT

LABORATORY

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Received: 10/22/2002 18:15

Site: 2600 GRANT AVE

		1 0	(1	Eva Cana	Pacovacy	ותםס	Ctrl Limits %	Flags
LCSD	2002/10/28	3-01 27-005		Extracted: 1	0/28/2002	,	Analyzed: 10	/28/2002 11:42
LCS	2002/10/28	3-01.27-004		Extracted: 1		-11,000,000,000		/28/2002 11:16
Labora	tory Control	Spike		Water	u Anglijak i Matagorija S Tario da Limeni≥ i			
							Datch # 20	02/10/28-01.27
Prep(s):	5030B			Con Columnia			ari Cons	Test(s): 8260B
	Twill sandwith Ala	na a agrada ng Patin			a de la como			A TANAMA
		North Albert	В	atch QC Re	port	46		

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
Compound	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE) Benzene Toluene	24.0 20.6 21.9	23.7 21.4 22.3	25.0 25.0 25.0	96.0 82.4 87.6	94.8 85.6 89.2	1.3 3.8 1.8	65-165 69-129 70-130	20 20 20		
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	488 513	497 515	500 500	97.6 102.6	99.4 103.0		76-114 88-110			

Fuel Oxygenates by 8260B

**Sutton Group** 

Attn.: John Sutton

3780 Mount Diablo BLVD suite 215

Lafayette, CA 94549

Phone: (925) 284-4208 Fax: (925) 284-4189

Project:

Received: 10/22/2002 18:15

Site: 2600 GRANT AVE

## SEVERN TRENT LABORATORY

STL San Francisco 1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

#### Legend and Notes

#### **Analysis Flag**

0

Reporting limits were raised due to high level of analyte present in the sample.

168	80 ROGERS AVENUE	C	ONDUCT	ANALYSIS TO	DETECT	LAB PAR	STL San Fra	ncisco	DHS#.	
	IFORNIA 95112-1105 FAX (408) 573-7771 HONE (408) 573-0555	2	00	2	- 10-	LIMITS SET BY LIFE	MIA DHS AN	ICATIONS AND D RWQCB REG		
CHAIN OF CUSTODY  BTS # 02/02		260)				LIA OTHER	L		69699	
The Sutton Group	COMPOSITE ALL CONTAINERS	TBE (8:	(007			SPECIAL INSTRUCTIO	NS			
ITE 2600 Grant Ave.	ONTA	MTB	o) ç			Invoice and Repor	rt to: The	Sutton Grou	ıp .	
San Lorenzo, CA	ALLC	X / 1	A LE			Attn: John Suttor	ı			
MATRIX CONTAINERS		TPH-G / BTEX / MTBE (8260)	(A11E)			(7) Oxygenates: TAME, TBA, DIPE, EDB, 1,2 DCA, ETHANOL, ETBE				
AMPLE I.D. DATE TIME 5 TO	OTAL 0	TPI	9			ADD'L !NFORMATION	STATUS	CONDITION	LAB SAMPLE#	
1.00	6	XX								
MW-5 " 1330 "	'	X /2								
							, , , , , , , , , , , , , , , , , , ,			
							····			
AMPLING DATE TIME SAMPLING PERFORM		\ <44	<u> </u>			RESULTS NEEDED NO LATER THAN	Standard TA	AT	3.9°C	
RELEASED BY	DATI		TIME	<b>1</b>	RECEIVED BY			DATE (0 /2	TIME /34	
RELEASED BY	DATI		TIME	8/5-	RECEIVED BY	Garrenden		DATE 10/22/02	TIME   1815	
RELEASED BY	TAAD	E /	TIME		RECEIVED BY	9		DATE	TIME	
SHIPPED VIA	DAT	E SENT	TIME	SENT	COOLER#			<u></u>		



# Sample Receipt Checklist

STL San Francisco

Submission #: 2002- 10 - 0486								
Checklist completed by: (initials)								
Courier name: A STL San Francisco ☐ Client	· Not							
Custody seals intact on shipping container/samples  YesNoPresent								
Chain of custody present?	YesNo							
Chain of custody signed when relinquished and received?	YesNo							
Chain of custody agrees with sample labels?	YesNo							
Samples in proper container/bottle?	YesNo							
Sample containers intact?	Yes No							
Sufficient sample volume for indicated test?	YesNo							
All samples received within holding time?	YesNo							
Container/Temp Blank temperature in compliance (4° C ± 2)?	Temp: <u>3 · /</u> °C Yes <u>/</u> No							
Water - VOA vials have zero headspace?	No VOA vials submittedYesNo_1/_							
Water - pH acceptable upon receipt? ☐ Yes ☐ No ☐ pH adjusted — Preservative used: ☐ HNO₃ ☐ HCl ☐ H₂SO₄ ☐ NaOH ☐ For any item check-listed "No", provided detail of discrepancy in comme								
Comments: Sumples /leca " / reaspace								
Project Management [Routing for instruction of indicat	ed discrepancy(ies)]							
Project Manager: (initials) Date:/02								
Client contacted: ☐ Yes ☐ No								
Summary of discussion:								
Corrective Action (per PM/Client):	·							