20288

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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

October 28, 2005

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

Results of 13th Quarterly Round of Sampling of Ground Water Monitoring Wells
Sites of Former Gasoline and Diesel Tanks
2600 Grant Ave., San Lorenzo, CA
OLSD PO No. 4911, LOP Site No. RO0000288 ST ID 1996

Dear Mr. Cortez:

We attach results for the most recent round of quarterly sampling of the ground water monitoring wells, conducted on October 6, 2005. This is the 13th quarterly sampling of the five wells at the former gasoline tank site and the one well at the former diesel tank site.

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 which shows the relative locations of the former gasoline and diesel tanks to the sewage treatment plant and the District's offices.

Groundwater Monitoring

Review of groundwater level measurements around the former gasoline tank site indicates a reduction of ground water elevation, consistent with summer conditions.. The groundwater conditions are similar to those of past summers. Table 1 is a cumulative tabulation of groundwater data. Figure 2 shows the gradient direction as calculated on Figure 2A.

Sampling Results

Gasoline Tank Area

On October 6, 2005, water samples were collected from the three wells in accordance with the approved work plan. The samples were collected by bailing.

All five wells were sounded and then sampled. 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 attached.

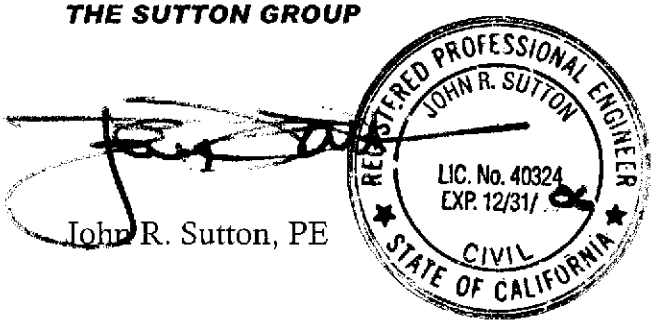
Diesel Tank Area

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

The well was sampled using a bailer, and analyzed for TPH as diesel and BTEX. Table 4D is a tabulation of all sample results for this well. Historically, the well has no detection of BTEX.

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

Yours truly,
THE SUTTON GROUP



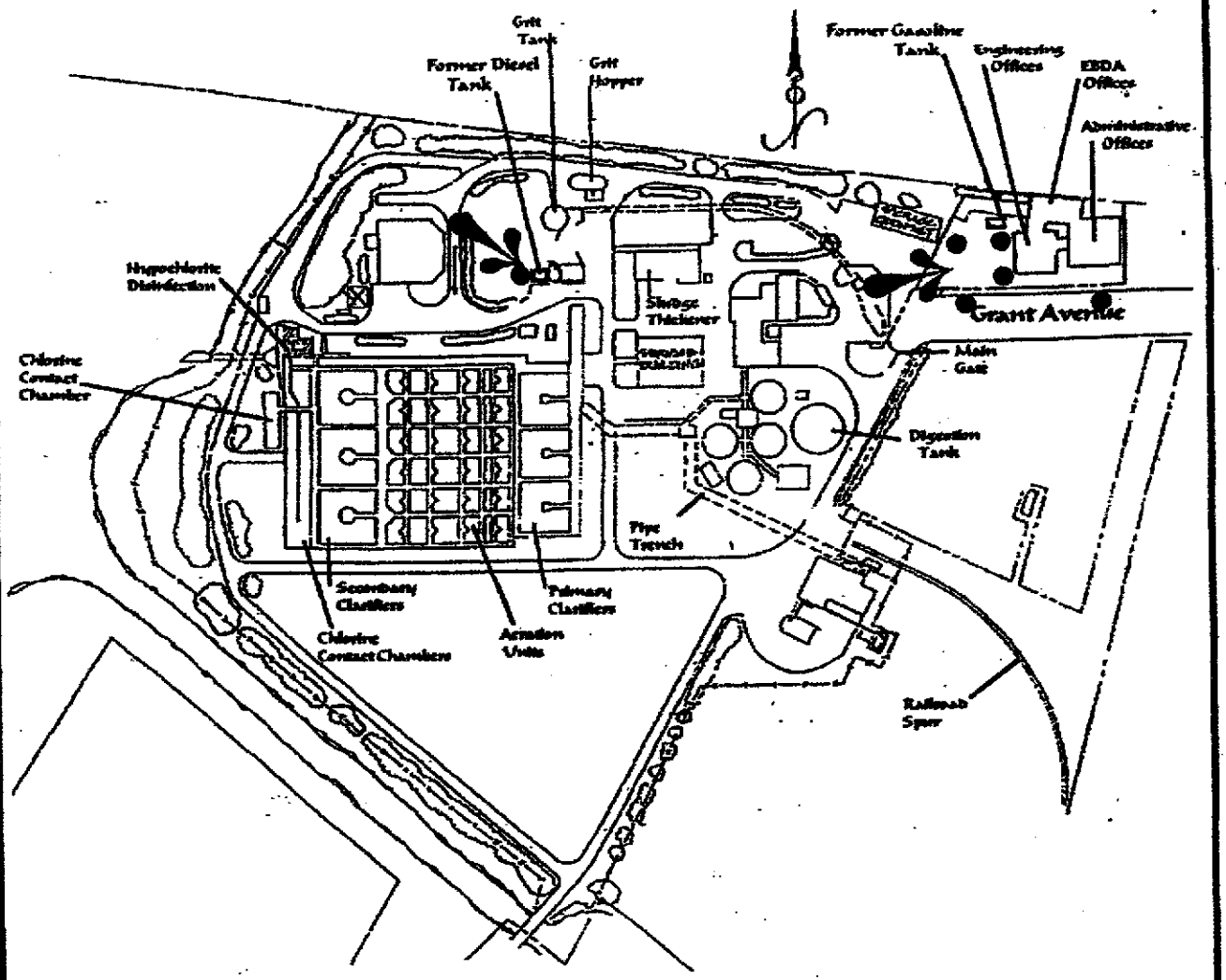
John R. Sutton, PE

Attachments:

Figure 1	Site Plan
Figure 2	Well Location Plan, Former Gasoline Tank Area
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
Table 3	Not included
Table 4D	Summary of Water Sample Analyses, Former Diesel Tank Area

Analytical Laboratory Reports (McCampbell)
Field sampling Reports (Blaine Tech)

Copy sent to Ms. Donna Drogos at Alameda County Health Dept.

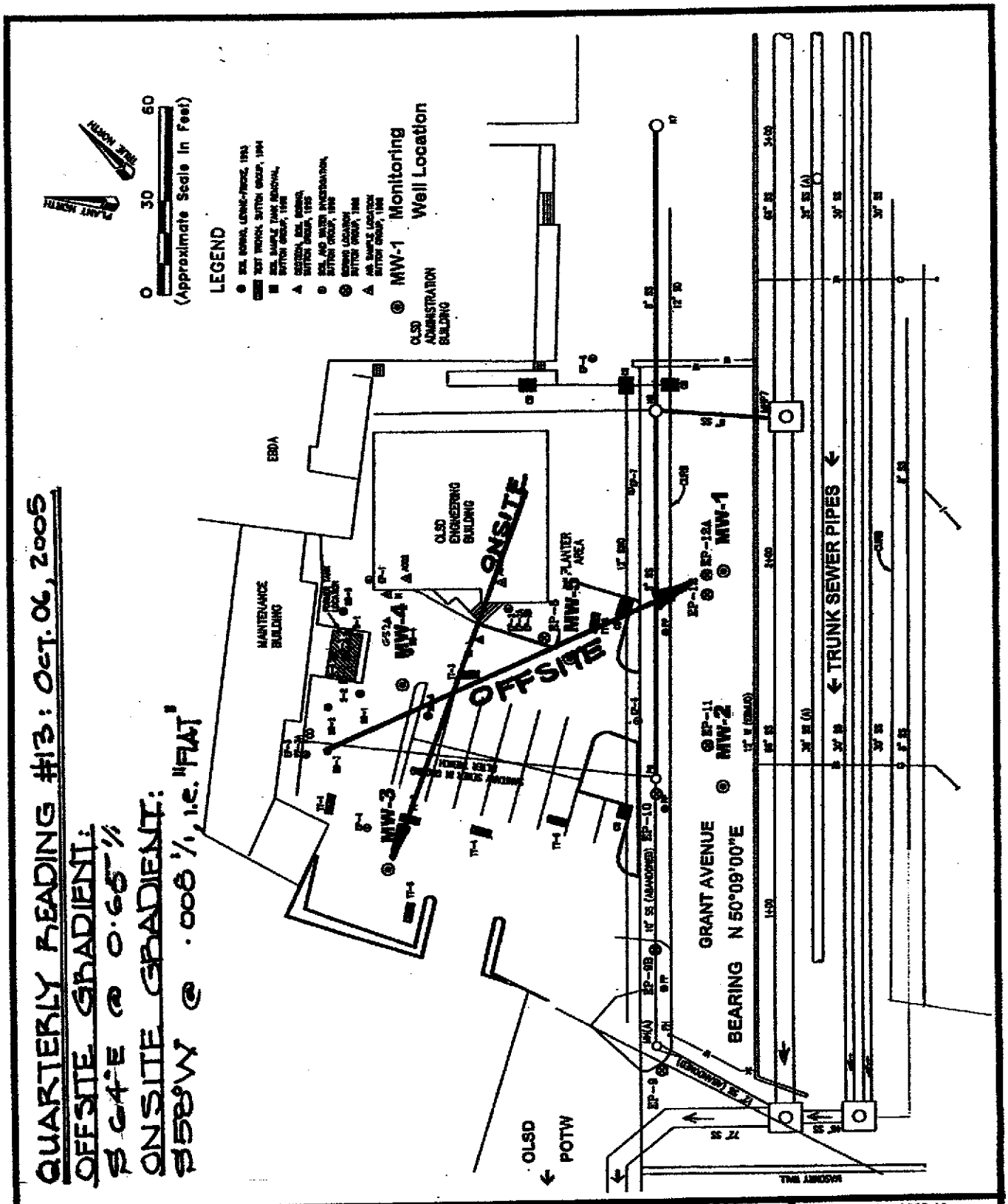


SITE PLAN

● Monitoring Well Location

SCALE 1 IN. TO 250 FEET, APPROX

THE SUTTON GROUP. 3708 Mount Diablo Blvd, Ste 215 Lafayette, CA, 94549 925 284-4208	**SITE PLAN** **ORO LOMA SANITARY DISTRICT** **San Lorenzo, California**	PROJECT No3022.10 **FIGURE 1** 5/21/03



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

PROJECT No. 3022.10

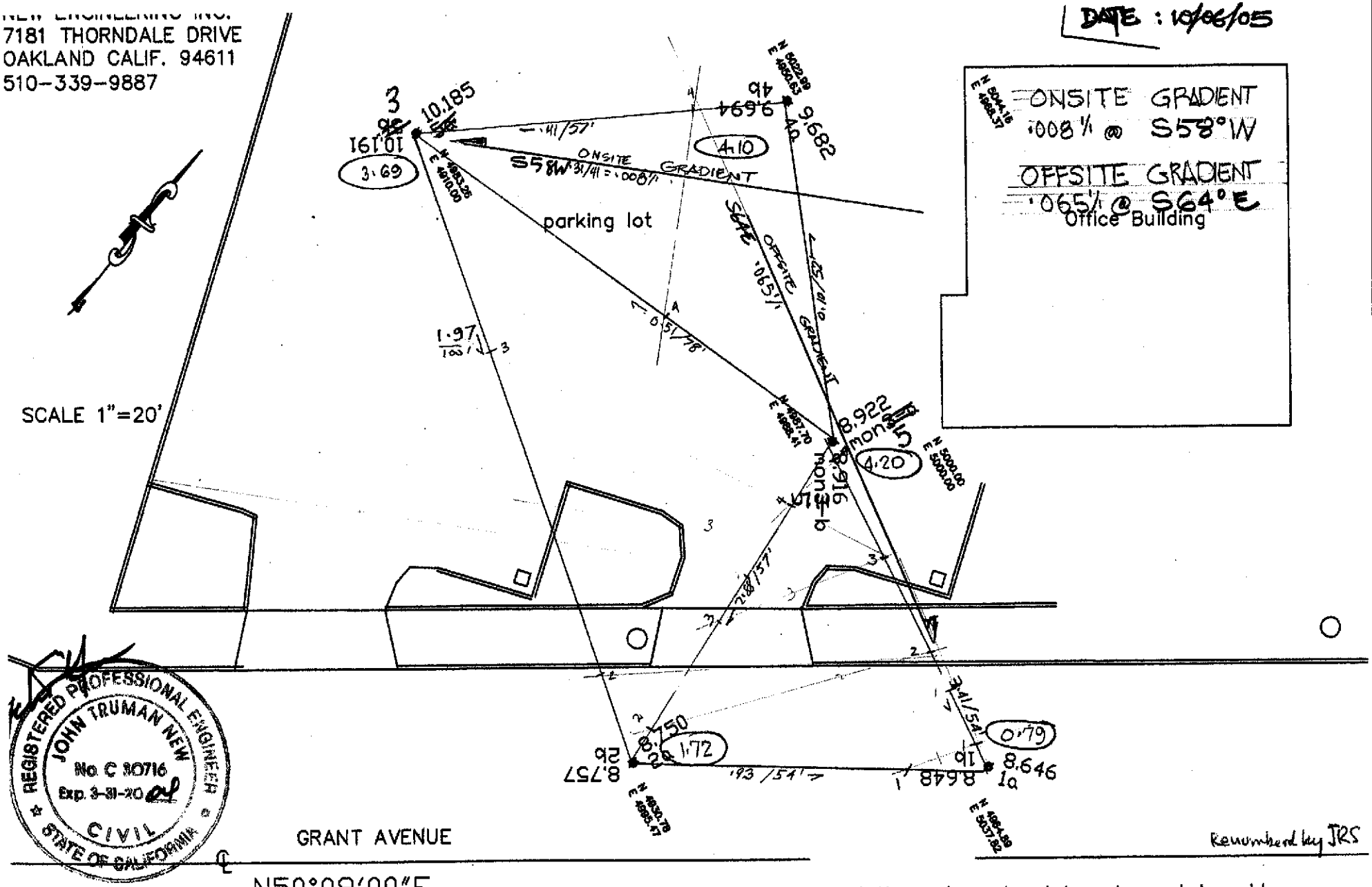
FIGURE 2

8/2/03

3022.10 City Plan Fig 2

NEW ENGINEERING INC.
7181 THORNDALE DRIVE
OAKLAND CALIF. 94611
510-339-9887

DATE : 10/06/05



note: coordinates given are relative only and not based on state grid

ORO LOMA SANITARY DISTRICT

2600 GRANT AVENUE

SAN LORENZO, CA

• monitoring wells (typical of 5)

note: two elevations are given at each well rim.

TABLE 1
GROUND WATER ELEVATIONS
All measurements are in feet

Monitoring Well ID	**MW 1**	**MW 2**	**MW 3**	**MW 4**	**MW 5**	***Estimated Net***	
Well Cover Rim Elevn*	**8.65**	8.75	10.19	9.68	8.92	***Flow Direction***	***Gradient ft/ft***
Groundwater Elevation							
Initial Sampling 10/21/02	1.72	2.04	3.21	3.58	2.84	S21°E	0.016
2nd Quarterly 1/28/03	2.23	2.65	4.94	5.35	4.42	S23°E	0.033
3rd Quarterly, 4/28/03	Not Measured	3.18	Not Measured	5.80	5.20	S22½°W	0.042
4th Quarterly, 7/25/03	0.45	2.35	3.44	3.58	3.52	S18°W	0.027
5th Quarterly, 10/30/03	1.82	2.75	3.61	4.18	4.09	S26°E	0.014
6th Quarterly, 1/23/04	2.20	3.27	5.27	5.47	5.17	S35°E	0.053
7th Quarterly, 4/27/2004	2.35	3.55	4.99	5.08	4.92	S17°E	0.017
8th Quarterly, 7/29/2004	1.55	2.43	3.77	4.11	4.14	S52°W	0.006
9th Quarterly, 10/28/2004	-0.08	0.98	4.17	4.50	4.69	S63°E	0.087
Special Sampling, 12/8/2004	-0.74	-0.83	Not Meas.	Not Meas.	Not Meas.	Not Meas.	Not Meas.
10th Quarterly, 1/24/2005	0.79	2.75	5.64	5.83	4.74	S27°E	0.03
11th Quarterly,4/28/2005	1.37	3.02	5.15	5.19	4.52	S40°E	0.023
12th Quarterly,7/19/2005	1.18	2.37	4.31	4.48	4.32	S59°E	0.063
Current reading on 10/06/2005							
Groundwater Depth	7.86	7.03	6.50	5.58	4.72		
Groundwater Elevation	**0.79**	**1.72**	**3.69**	**4.10**	**4.20**	**S64°E**	**0.065**
Change Since 7/19/2005	-0.39	-0.65	-0.62	-0.38	-0.12		
Change since same Qtr, last year	0.87	0.74	-0.48	-0.40	-0.49		

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

TABLE 2

SUMMARY OF GROUND WATER SAMPLE ANALYSES

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE

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

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE	DILUTION FACTOR
MW-1	*10/06/05*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	1
MW-2	*10/06/05*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	1
MW-3	*10/06/05*	190	71	ND	ND	2.6	49	1
MW-4	*10/06/05*	65,000	12,000	2,100	3,200	11,000	ND<500	100
MW-5	*10/06/05*	58,000	17,000	410	1,000	6,600	ND < 500	100
MW-D 1	*10/06/05*	*DIESEL*: 340	ND	ND	ND	ND	ND	1
TRIP BLANK	*10/06/05*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	1
REPORTING LIMITS FOR DF=1		50	0.5	0.5	0.5	0.5	5	

NOTES:

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

TABLE 2A

CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES
FORMER GASOLINE TANK AREA

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

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
	11/23/99	ND	ND	ND	ND	ND	ND
DUP	11/23/99	ND	ND	ND	ND	ND	ND
	7/25/03	ND	ND	ND	ND	ND	ND
	10/30/03	N/A	N/A	N/A	N/A	N/A	N/A
	1/23/04	ND	ND	ND	ND	ND	ND
	4/27/04	N/A	N/A	N/A	N/A	N/A	N/A
	7/29/04	ND	ND	ND	ND	ND	ND
MP	10/28/04	N A	N A	N A	N A	N A	N A
	12/8/04	ND	ND	ND	ND	ND	ND
MP	1/24/05	ND	ND	ND	ND	ND	ND
	4/28/05	N A	N A	N A	N A	N A	N A
	7/19/05	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*

TABLE 2A, Continued
CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE

FORMER GASOLINE TANK AREA

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
	10/06/05	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
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
	11/23/99	ND	ND	ND	ND	ND	ND
	7/25/03	ND	ND	ND	ND	ND	< 1
	10/30/03	N/A					
	1/23/04	ND	ND	ND	ND	ND	ND
	4/27/04	N/A	N/A	N/A	N/A	N/A	N/A
	7/29/04	ND	ND	ND	ND	ND	ND
MP	10/28/04	ND	ND	ND	ND	ND	ND
	12/8/04	ND	ND	ND	ND	ND	1.5
MP	1/24/05	ND	ND	ND	ND	ND	9.0
	4/28/05	N A	N A	N A	N A	N A	N A
	7/19/05	***ND***	***ND***	***ND***	***ND***	***ND***	***ND***
	10/06/05	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**

TABLE 2A, Continued
CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE

FORMER GASOLINE TANK AREA

Sample Location	*Sample Date*	*Gasoline*	*Benzene*	*Toluene*	*Ethyl Benzene*	*Xylenes (total)*	*MTBE*
MW-3	2/19/99	ND	ND	ND	ND	ND	1.5 [1]
DUP	2/19/99	ND	ND	ND	ND	ND	N/A
	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
	1/6/00	ND	ND	ND	ND	ND	3.1 [4]
DUP	1/6/00	ND	ND	ND	ND	ND	2.6 [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
	7/25/03	ND	ND	ND	ND	ND	1.1
	10/30/03	N/A	N/A	N/A	N/A	N/A	N/A
	1/23/04	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/04	N/A	N/A	N/A	N/A	N/A	N/A

TABLE 2A, Continued
CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE

FORMER GASOLINE TANK AREA

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
	7/29/04	ND	6.4	ND	ND	ND	8.8
MP	10/28/04	390	170	0.70	ND	2.4	57
	12/8/04	N/A	N/A	N/A	N/A	N/A	N/A
MP	1/24/05	520	260	0.53	ND	1.9	89
	4/28/05	220	110	ND	ND	.63	54
	7/19/05	760	370	.68	ND	2.6	92
	10/06/05	**190**	**71**	**ND**	**ND**	**ND**	**49**
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
	10/30/03	77,000	12,000	9,300	3,200	16,000	ND < 200
	1/23/04	100,000	16,000	10,000	1,100	19,000	ND < 1,200
	4/27/04	78,000	13,000	7,800	3,200	17,000	ND < 1,000
	7/29/2004	46,000	8,300	2,100	2,000	7,900	ND<500

TABLE 2A, Continued
CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE

FORMER GASOLINE TANK AREA

SAMPLE LOCATION	SAMPLE DATE	GASOLINE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES (TOTAL)	MTBE
MP	10/28/04	80,000	15,000	7,100	3,500	14,000	ND<1,000
	12/8/04	N/A	N/A	N/A	N/A	N/A	N/A
MP	1/24/05	70,000	9,900	850	2,500	11,000	ND<1,000
	4/28/05	79,000	9,400	690	4000	16,000	ND<900
	7/19/05	35,000	7,500	92	1,900	3,900	ND<500
	10/06/05	**65,000**	**12,000**	**2,100**	**3,200**	**11,000**	**ND<500**
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
	10/30/03	33,000	7,500	2,200	490	1,600	ND < 100
	1/23/04	97,000	18,000	20,000	ND<120	7,900	ND < 1,200
	4/27/04	39,000	12,000	11,000	920	4,300	ND < 1,000
	7/29/04	47,000	11,000	5,500	690	2,800	ND < 1,000
MP	10/28/04	130,000	23,000	25,000	2,000	9,700	ND< 1,700

TABLE 2A, Continued
CUMULATIVE SUMMARY OF GROUND WATER SAMPLE ANALYSES
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, BTEX AND MTBE

FORMER GASOLINE TANK AREA

Sample Location	*Sample Date*	*Gasoline*	*Benzene*	*Toluene*	*Ethyl Benzene*	*Xylenes (total)*	*MTBE*
	12/8/04	N/A	N/A	N/A	N/A	N/A	N/A
MP	1/24/05	150,000	22,000	25,000	2,100	12,000	ND<1,000
	4/28/05	89,000	18,000	11,000	1,600	8,900	ND < 500
	7/19/05	39,000	11,000	200	710	1,700	ND < 500
	10/06/05	**58,000**	**17,000**	**410**	**1,000**	**6,600**	**ND<500**

NOTES:

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

TABLE 4

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)

Sample Date	*TPH as DIESEL*	*BTEX*
10/06/05	**340**	**ND**
7/19/05	53	ND
4/28/05	70	ND
1/24/05	77	ND
10/28/04	58	ND
7/29/04	ND<50	ND
4/27/04	110	< 0.91
1/23/04	71	ND
10/30/03	87	ND
7/25/03	90*	ND*
4/28/2003	87	ND
3/ 8/ 96	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 table 2 and laboratory certificates appended.

WELLHEAD INSPECTION CHECKLIST

Date 10-6-05 Client The Sutton Group

Site Address 2600 Grant Ave San Lorenzo

Job Number 051006-BR1 Technician B. Summerset

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)
mw-1	X							
mw-2	X							
mw-3	X							
mw-4	X							
mw-5	X							
mw-D1	X							

NOTES: * no locks on all wells

WELL GAUGING DATA

Project # 051006-BR1 Date 10-06-05 Client The Sutton Group

Site 2600 Grant Ave San Lorenzo

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
mw-1	2					7.86	12.20	TOB	G/O
mw-2	2					7.03	15.45		G/O
mw-3	2					6.50	15.55		
mw-4	2					5.58	13.90		
mw-5	2					4.72	13.75		
mw-D1	4					4.66	14.30		

WELL MONITORING DATA SHEET

Project #: 051006-BR1	Client: The Sutton Group
Sampler: BR	Start Date: 10-6-05
Well I.D.: MW-3	Well Diameter: ② 3 4 6 8 ____
Total Well Depth: 15.55	Depth to Water: 6.50
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

9.05

- Bailer
- ~~Disposable Bailer~~
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other____

Sampling Method: Bailer (80% = 831)

- ~~Disposable Bailer~~
- Extraction Port
- Dedicated Tubing
- Other:____

1.5 (Gals.) X 3 = 4.3 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	radius² * 0.163

Time	Temp. (°F or °C)	pH	Conductivity (mS or µS)	Turbidity (NTU)	Gals. Removed	Observations
911	72.5	6.1	6397 us	732	1.5	
912	71.8	6.1	14.5 ms	739	3.0	
913	71.5	6.2	23.3 ms	735	4.5	DTW-6.95

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Time: 915 Sampling Date: 10-6-05

Sample I.D.: MW-3 Laboratory: McCampbell STL

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

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

WELL MONITORING DATA SHEET

Project #: 050006-BR1	Client: Sutton Group
Sampler: BR	Start Date: 10-6-05
Well I.D.: MW-4	Well Diameter: ② 3 4 6 8 ____
Total Well Depth: 13.90	Depth to Water: 5.58
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC ~~Grade~~	D.O. Meter (if req'd): YSI HACH

Purge Method: (6.32)

- Bailer
- ~~Disposable Bailer~~
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other____

Sampling Method: (60% = 7.24)

- Bailer
- ~~Disposable Bailer~~
- Extraction Port
- Dedicated Tubing
- Other:____

1.3 (Gals.) X	3	=	4.0 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	radius² * 0.163

Time	Temp. (°F or °C)	pH	Conductivity (mS or µS)	Turbidity (NTU)	Gals. Removed	Observations
926	74.2	6.8	11.22	646	1.5	
929	73.6	6.3	16.25	658	3.0	
930	73.4	6.3	21.33	661	4.0	DTW = 7.18

Did well dewater? Yes (No)	Gallons actually evacuated: 4.0
Sampling Time: 935	Sampling Date: 10-6-05
Sample I.D.: MW-4	Laboratory: ~~McCampbell~~ STL
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:

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

WELL MONITORING DATA SHEET

Project #: 050005 - BR1	Client: Sutton Group
Sampler: BR	Start Date: 10-6-05
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.75	Depth to Water: 4.72
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

80% = 6.52

Purge Method:

9.03

- Bailer
- ✓ Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:

- Bailer
- ✓ Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other:_____

1.5 (Gals.) X 3 = 4.4 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	radius² * 0.163

Time	Temp. (F or °C)	pH	Conductivity (mS or µS)	Turbidity (NTU)	Gals. Removed	Observations
941	71.6	6.6	15.74	786	1.5	
942	71.8	6.5	16.97	780	3.0	
943	72.1	6.4	18.88	782	4.5	DTW = 6.52
		waited	few minutes for	80% recharge		

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Time: 950 Sampling Date: 10-6-05

Sample I.D.: MW-5 Laboratory: McCam, STL

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

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

WELL MONITORING DATA SHEET

Project #: 051006-BR1	Client: Sutton Group
Sampler: BR	Start Date: 10-6-05
Well I.D.: mw-D1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.30	Depth to Water: 4.66
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC (Grade)	D.O. Meter (if req'd): YSI HACH

80% = 6.58

Purge Method:

9.64

- Bailer
- Disposable Bailer
- Positive Air Displacement
- ✓ Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:

- Bailer
- ✓ Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other:_____

6.3 (Gals.) X 3 = 18.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp. (F or °C)	pH	Conductivity (mS or µS)	Turbidity (NTU)	Gals. Removed	Observations
1001	71.3	7.4	14.47	31		
		Dewater	@ 8.0	gallons		
1024	71.0	7.2	15.44	40	—	DTW=4.60

Did well dewater? (Yes) No		Gallons actually evacuated: 8.0	
Sampling Time: 1025		Sampling Date: 10-6-05	
Sample I.D.: mw-D1		Laboratory: STL	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
Equipment Blank I.D.:	@ Time	Duplicate I.D.:	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge: mV

BLAINE TECH SERVICES, INC.

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

CHAIN OF CUSTODY BTS # 051006-BR1

CLIENT: The Sutton Group

SITE: 2600 Grant Ave.
San Lorenzo, CA

LAB: McCampbell | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION

SPECIAL INSTRUCTIONS

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

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

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	TPH-G by 8015	BTEX by 8021	MTBE by 8021	TPH-D	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
mw-3	10-6	915	W	3		X	X	X					
mw-4		935		3		X	X	X					
mw-5		950		3		X	X	X					
mw-D1		1025		5			X	X	X				
~~BA/BGTB~~				2		X	X	X					

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB
PRESERVATION: VOAS | O&G | METALS | OTHER

SAMPLING COMPLETED	DATE	TIME
	10-6-05	1030

SAMPLING PERFORMED BY: B. Summerset

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	10/6/05	1533	Walter Hopper / Sample Custodian	10/6/05	1533
Walter Hopper / Sample Custodian	10/7/05	1435		10/7/05	1935
	10/7/05	400		10/7/05	1600

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
	10/7/05		

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0510140 **ClientID: TSG** **EDF: NO**

Report to:
John Sutton
The Sutton Group
3708 Mt. Diablo Blvd, Ste. 215
Lafayette, CA 94549
TEL: 925-284-4208
FAX: 925-284-4189
ProjectNo: #3022.10
PO:

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

Requested TAT: 5 days

Date Received: **10/07/2005**
Date Printed: **10/07/2005**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0510140-001	MW-3	Water	10/06/2005	☐	A														
0510140-002	MW-4	Water	10/06/2005	☐	A														
0510140-003	MW-5	Water	10/06/2005	☐	A														
0510140-004	MW-DI	Water	10/06/2005	☐	A	B													
0510140-005	TB	Water	10/06/2005	☐	A														

Test Legend:

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

Prepared by: Rosa 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.

McCampbell Analytical, Inc.

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

The Sutton Group	Client Project ID: #3022.10	Date Sampled: 10/06/05
3708 Mt. Diablo Blvd, Ste. 215		Date Received: 10/07/05
Lafayette, CA 94549	Client Contact: John Sutton	Date Extracted: 10/08/05-10/12/05
	Client P.O.:	Date Analyzed: 10/08/05-10/12/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0510140

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-3	W	190,a	49	71	ND	ND	ND	1	97
002A	MW-4	W	65,000,a	ND<500	12,000	2100	3200	11,000	100	104
003A	MW-5	W	58,000,a	ND<500	17,000	410	1000	6600	100	109
004A	MW-DI	W	---	ND	ND	ND	ND	ND	1	105
005A	TB	W	ND	ND	ND	ND	ND	ND	1	96

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 McCampbell 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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

The Sutton Group	Client Project ID: #3022.10	Date Sampled: 10/06/05
3708 Mt. Diablo Blvd, Ste. 215		Date Received: 10/07/05
Lafayette, CA 94549	Client Contact: John Sutton	Date Extracted: 10/07/05
	Client P.O.:	Date Analyzed: 10/08/05

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

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0510140

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0510140-004B	MW-DI	W	340,b,g	1	98

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

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

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

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

DHS Certification No. 1644

_____Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0510140

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 18428** **Spiked Sample ID: 0510099-008A**

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	LCS / LCSD
TPH(btex)£	ND	60	104	107	1.99	108	99.9	7.47	70 - 130	70 - 130
MTBE	ND	10	93.6	87.8	6.38	87.7	111	23.4	70 - 130	70 - 130
Benzene	ND	10	90.5	86.8	4.20	84.8	96.5	12.9	70 - 130	70 - 130
Toluene	ND	10	90.1	85.6	5.11	84	87.9	4.51	70 - 130	70 - 130
Ethylbenzene	ND	10	92.2	91.7	0.496	92.8	97.4	4.85	70 - 130	70 - 130
Xylenes	ND	30	94	94.7	0.707	94.7	96	1.40	70 - 130	70 - 130
%SS:	113	10	99	96	2.86	101	95	5.33	70 - 130	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

BATCH 18428 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510140-001A	10/06/05 9:15 AM	10/12/05	0/12/05 10:33 AM	0510140-002A	10/06/05 9:35 AM	10/11/05	10/11/05 4:36 PM
0510140-003A	10/06/05 9:50 AM	10/11/05	10/11/05 4:02 PM	0510140-004A	0/06/05 10:25 AM	10/11/05	0/11/05 12:49 AM
0510140-005A	10/06/05	10/08/05	10/08/05 3:36 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 applicable or not enough sample to perform matrix spike and matrix spike duplicate.

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

DHS Certification No. 1644 _____QA/QC Officer

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

QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0510140

EPA Method: SW8015C	Extraction: SW3510C				BatchID: 18463			Spiked Sample ID N/A		
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	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	87.2	86.3	0.944	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	99	100	1.30	N/A	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

BATCH 18463 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510140-004b	/06/05 10:25 AM	10/07/05	0/08/05 7:34 PM				

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

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

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

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

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

DHS Certification No. 1644 _____QA/QC Officer