



**RECEIVED**

3:03 pm, Jan 07, 2008

Alameda County  
Environmental Health

December 26, 2007

Alameda County Department of  
Environmental Health  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, CA 94502

Attention: Donna Drogos

Subject: Fourth Quarter 2007 Groundwater Monitoring Report  
1125 67<sup>th</sup> Street Oakland, Ca  
ACDEH Site No. RO2602

Ladies and Gentlemen:

Gribi Associates is pleased to submit this Fourth Quarter 2007 Groundwater Monitoring Report on behalf of St. Francis Pie Shop for the underground storage tank (UST) site located at 1125 67<sup>th</sup> Street in Oakland, California (see Figure 1 and Figure 2). This letter report documents the monitoring and sampling of five site wells on November 20, 2007.

#### **DESCRIPTION OF SAMPLING ACTIVITIES**

1. Gribi Associates personnel conducted groundwater monitoring and sampling activities for 5 of site wells (MW-1, MW-2, MW-3, MW-4, and MW-5) on November 20, 2007.
2. Groundwater monitoring and sampling was conducted in accordance with California LUFT Field Manual, including the following:
  - a. measuring static water levels;
  - b. checking for presence of free-product;
  - c. and purging of approximately three well volumes while recording of temperature, pH, conductivity, and clarity.
3. Collected groundwater samples were placed in an ice-chilled cooler and submitted to a state-certified laboratory for analyses.
4. Copies of groundwater sampling field data sheets are provided as Attachment A.

## **RESULTS OF GROUNDWATER MONITORING**

### **Hydrologic Conditions**

1. Groundwater depths ranged from approximately 5.95 feet (MW-2) to 8.04 feet (MW-5).
2. Groundwater elevations ranged from 35.71 feet above means sea level (msl) (MW-5) to 38.12 feet msl (MW-1).
3. Groundwater flow direction is variable, generally trends to the west-southwest.
4. Groundwater elevations and elevation contours are shown on Figure 3.

### **Laboratory Analytical Results**

1. Groundwater samples from the seven sampled wells were analyzed for the following parameters with standard method turn around time on results:
  - a. USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G)
  - b. USEPA 8021B Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
  - c. USEPA 8260B Oxygenates (TBA, MTBE, DIPE, ETBE, and TAME)
2. Groundwater hydrocarbon results for this monitoring event are summarized in Table 1.
3. Groundwater hydrocarbon results for this monitoring event are summarized on Figure 4.
4. The laboratory analytical data report and chain-of custody are provided as Attachment B.

## **CONCLUSIONS**

1. Results of this monitoring event indicate primarily a single groundwater MTBE/TBA plume located in the vicinity of MW-1 & MW-2..
  - a. This MTBE/TBA groundwater plume does not appear to extend a significant distance laterally.

## **PLANNED ACTIVITIES**

1. Gribi Associates has submitted a workplan to conduct site remediation activities.
2. Gribi Associates will perform First Quarter 2008 groundwater monitoring and sampling at the site.

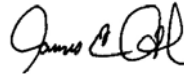
Alameda County Department of  
Environmental Health  
December 26, 2007  
Page 3

We appreciate this opportunity to provide this report for your review. Please contact us if there are questions or if additional information is required.

Very truly yours,



Aaron J. Garcia  
Environmental Scientist



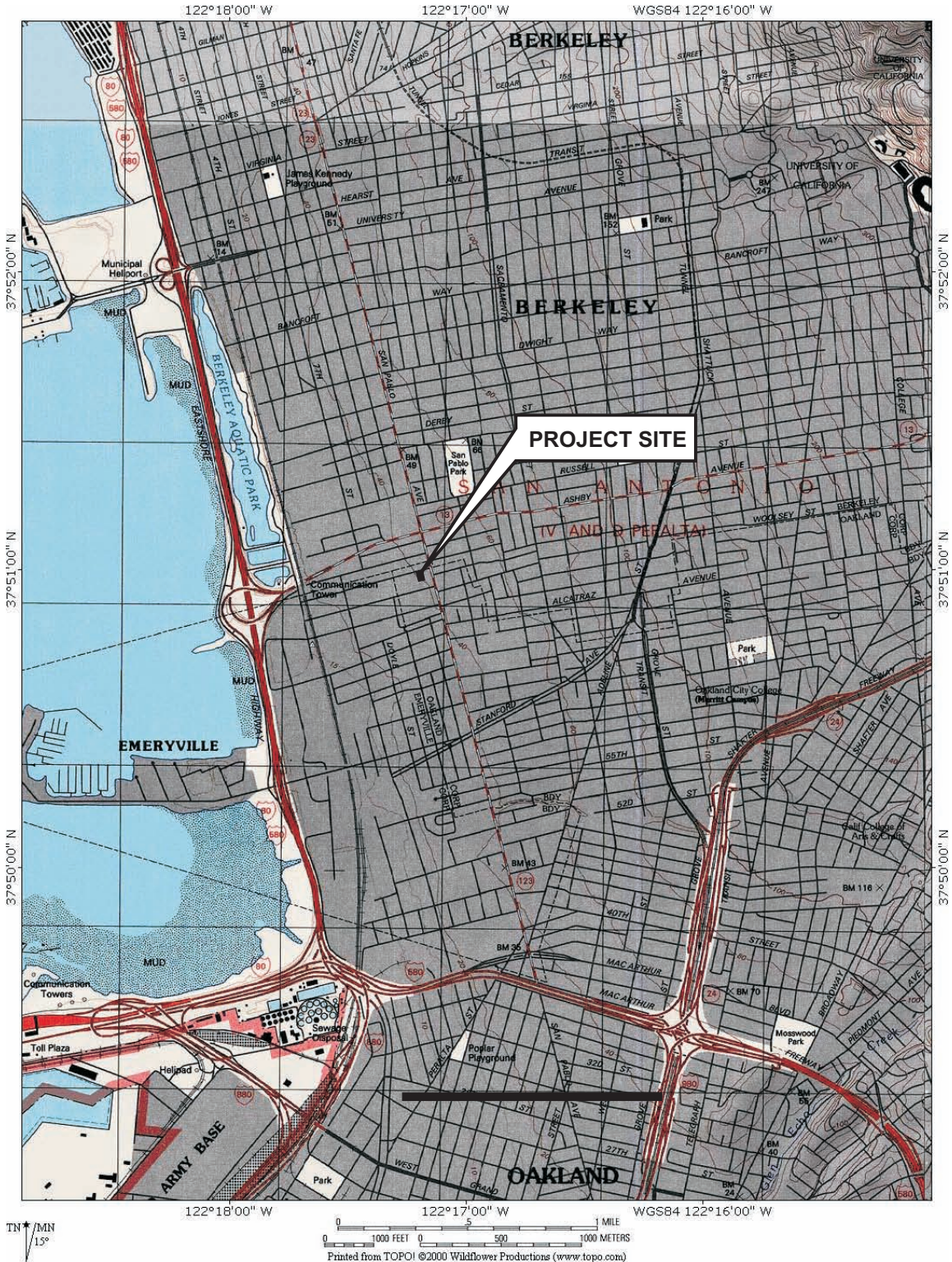
James E. Gribi  
Professional Geologist  
California No. 5843




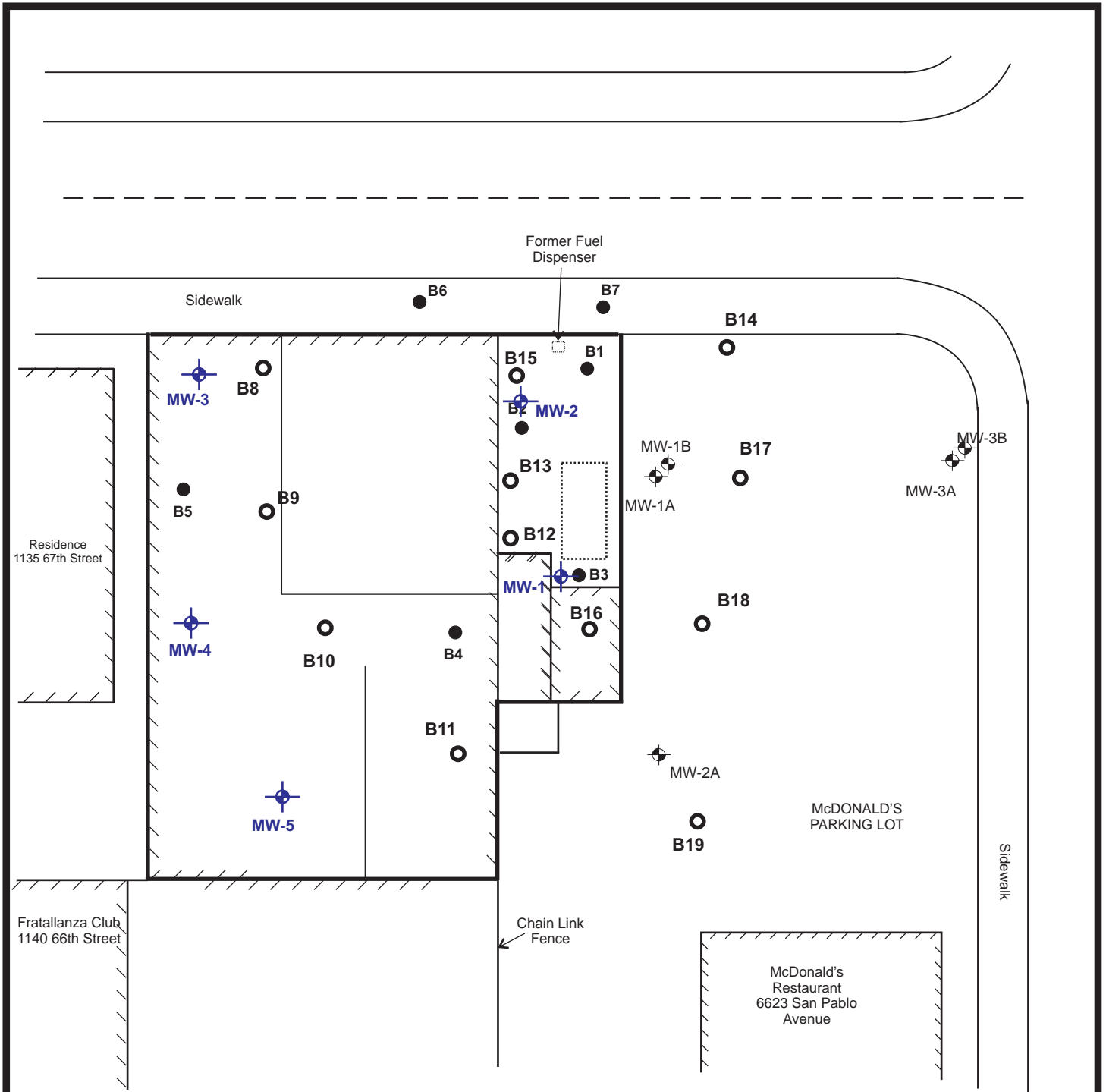
Enclosure

cc: Mr. John Buschini

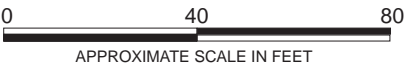
## FIGURES



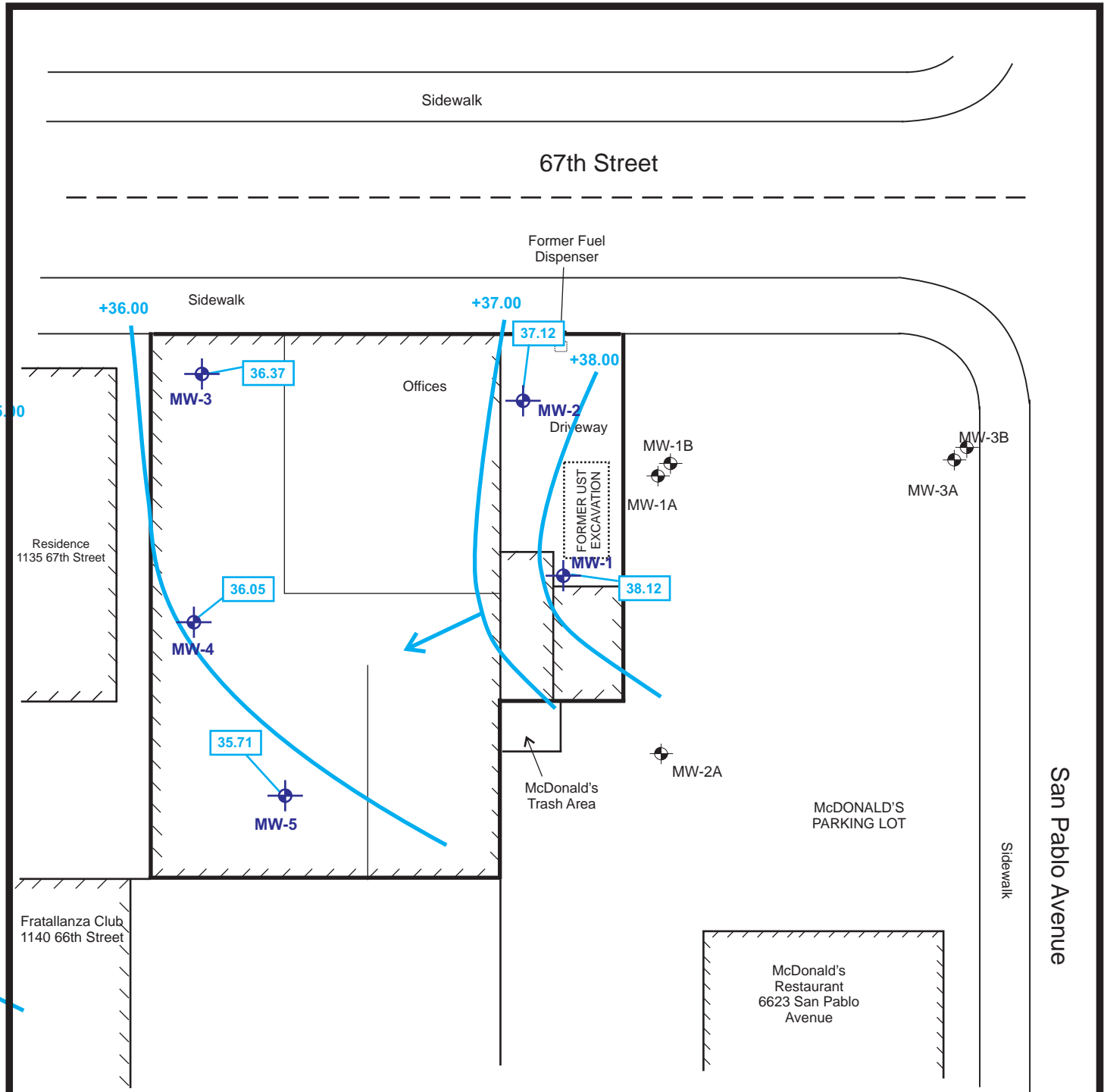
DESIGNED BY:	CHECKED BY:	<b>SITE VICINITY MAP</b>  ST. FRANCIS PIE SHOP 1125 67th STREET OAKLAND, CALIFORNIA	DATE: 08/20/07	FIGURE: 1
DRAWN BY: JG	SCALE:			
PROJECT NO: 320-01-01				



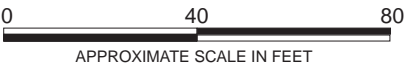
- - SOIL BORING LOCATION (GRIBI ASSOCIATES, 10/2006)
- ⊕ - GROUNDWATER MONITORING WELL LOCATION (GRIBI ASSOCIATES, 02/2007).
- - SOIL BORING LOCATION (TEC ACCUTITE, 10/2005)
- ⊕ - GROUNDWATER MONITORING WELL, (BASELINE, 01/99)



DESIGNED BY:	CHECKED BY: JEG	<b>SITE PLAN</b>	DATE: 12/26/2007	FIGURE: 2
DRAWN BY: JEG	SCALE:			
PROJECT NO: 320-01-01		ST. FRANCIS PIE SHOP UST SITE 1125 67TH STREET OAKLAND, CALIFORNIA		



- GROUNDWATER MONITORING WELL LOCATION (GRIBI ASSOCIATES, 02/2007).  
 - GROUNDWATER MONITORING WELL, (BASELINE, 01/99)

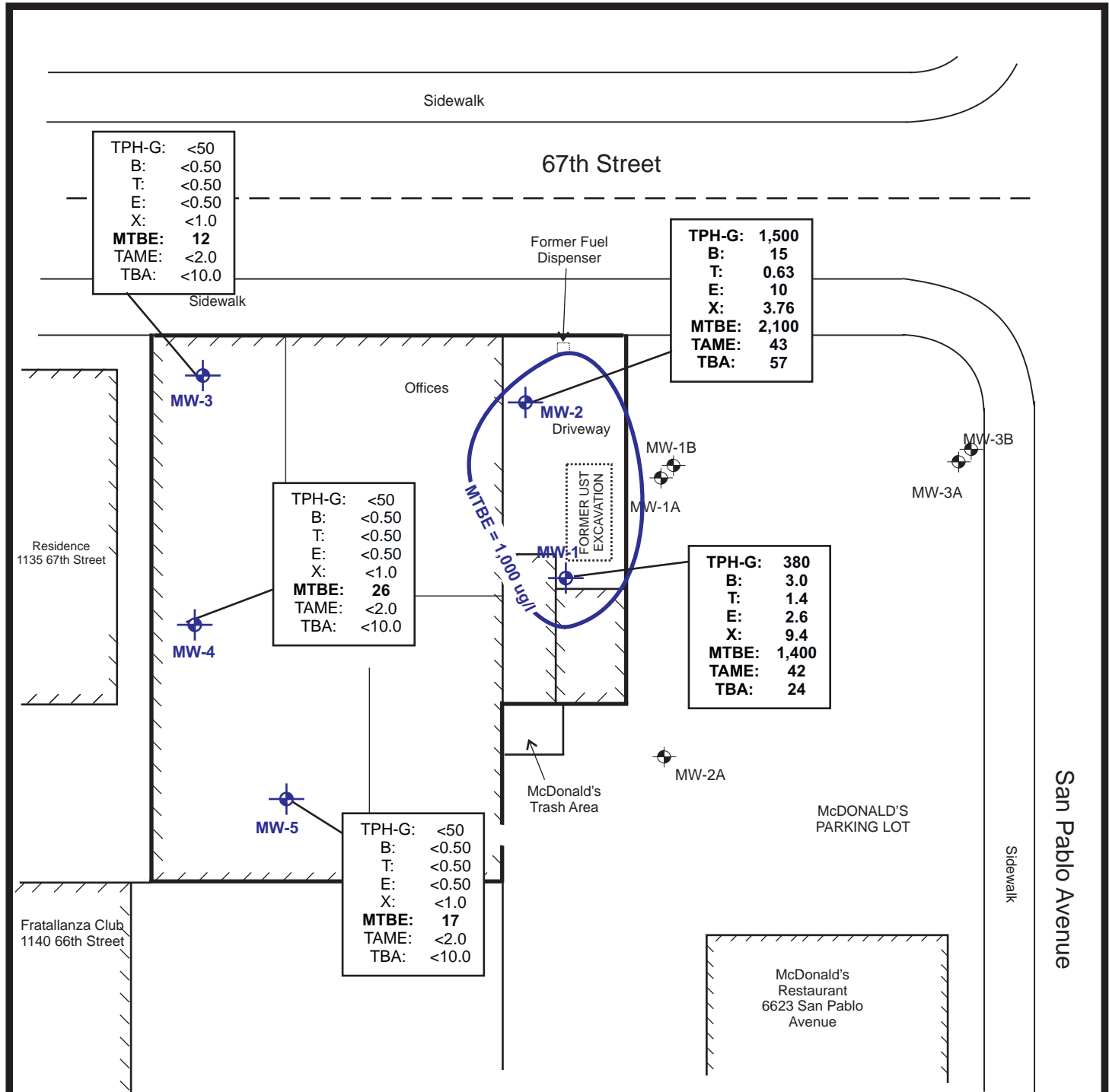


DESIGNED BY:	CHECKED BY: JEG
DRAWN BY: JEG	SCALE:
PROJECT NO: 320-01-01	

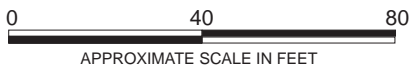
**SHALLOW GROUNDWATER ELEVATIONS - 11/20/07**  
 ST. FRANCIS PIE SHOP UST SITE  
 1125 67TH STREET  
 OAKLAND, CALIFORNIA

DATE: 12/26/2007      FIGURE: 3





- GROUNDWATER MONITORING WELL LOCATION (GRIBI ASSOCIATES, 02/2007).  
 - GROUNDWATER MONITORING WELL, (BASELINE, 01/99)



DESIGNED BY:	CHECKED BY: JEG	<b>SHALLOW GROUNDWATER HYDROCARBON RESULTS - 11/20/07</b> ST. FRANCIS PIE SHOP UST SITE 1125 67TH STREET OAKLAND, CALIFORNIA	DATE: 12/26/2007	FIGURE: 4
DRAWN BY: JEG	SCALE:			
PROJECT NO: 320-01-01				



**TABLE**

**Table 1**  
**Groundwater Laboratory Analytical Results**  
 St. Francis Pie Shop UST Site

Well ID	Date	GW Depth	GW Elev.								Oxy
				TPH-G	B	T	E	X	MTBE		
MW-1 <44.40>	03/08/2007	4.86	39.54	130	<0.50	<0.50	<0.50	<1.0	5,800	TAME=220 TBA=2,500	
	05/31/2007	6.38	38.02	250	<0.50	<0.50	<0.50	<1.0	6,300	TAME=260 TBA=180	
	09/07/2007	6.65	37.75	100	<0.50	<0.50	<0.50	<1.0	3,100	TAME=140 TBA=84	
	11/20/2007	6.28	38.12	380	3.0	1.4	2.6	9.4	1,400	TAME=42 TBA=24	
MW-2 <43.07>	03/08/2007	4.99	38.08	210	5.6	<0.50	4.8	<1.0	2,000	TAME=40 TBA=1,400	
	05/31/2007	6.58	36.49	240	14	<0.50	5.2	<1.0	2,300	TAME=56 TBA=110	
	09/07/2007	6.45	36.62	<50	<0.50	<0.50	<0.50	<1.0	<1.0	ND	
	11/20/2007	5.95	37.12	1,500	15	0.63	10	3.76	2,100	TAME=43 TBA=47	
MW-3 <43.42>	03/08/2007	5.79	37.63	<50	<0.50	<0.50	<0.50	<1.0	11	ND	
	05/31/2007	7.14	36.28	<50	<0.50	<0.50	<0.50	<1.0	2.3	ND	
	09/07/2007	7.71	35.71	<50	<0.50	<0.50	<0.50	<1.0	40	ND	
	11/20/2007	7.05	36.37	<50	<0.50	<0.50	<0.50	<1.0	12	ND	
MW-4 <43.52>	03/08/2007	5.42	38.10	<50	<0.50	<0.50	<0.50	<1.0	5.6	ND	
	05/31/2007	7.01	36.51	<50	<0.50	<0.50	<0.50	<1.0	6.6	ND	
	09/07/2007	8.35	35.17	<50	<0.50	<0.50	<0.50	<1.0	24	ND	
	11/20/2007	7.47	36.05	<50	<0.50	<0.50	<0.50	<1.0	26	ND	
MW-5 <43.75>	03/08/2007	6.98	36.77	<50	<0.50	<0.50	<0.50	<1.0	3.2	ND	
	05/31/2007	7.02	36.73	<50	<0.50	<0.50	<0.50	<1.0	15	ND	
	09/07/2007	9.20	34.55	<50	<0.50	<0.50	<0.50	<1.0	42	ND	
	11/20/2007	8.04	35.71	<50	<0.50	<0.50	<0.50	<1.0	17	ND	

**Notes:**

GW Elev = Groundwater mean sea level elevation

TPH-G = Total Petroleum Hydrocarbons as gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

Oxy = Oxygenates (except MTBE), including Ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME)

ND = Not detected above the expressed value

<44.40> = Top of casing mean sea level elevation (Virgil Chavez Land Survey 03/08/2007).

**ATTACHMENT A**  
**GROUNDWATER MONITORING FIELD DATA RECORDS**

Ground Water Monitoring Field Sheet

Site St. FRANCIS PIE SHOP

Project Number \_\_\_\_\_

Sampling Personnel ADG

Date 11/22/07

Weather Conditions SUN

Well ID MW-1

Casing Diameter (inches) 3/4"

Depth to Water (ft) 6.28

Total Depth (ft) 20'

Water Column (ft) 13.72'

One Well Volume (gal) \_\_\_\_\_

3X Well Volume (gal) 1

Notes:

One Well Volume is determined by multiplying "Water Column" by:

\* 0.059 for 3/4 inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

**Field Methods (check appropriate box)**

Activity	Bailer	Pump	Comments
<u>PURGE</u>		<u>X</u>	<u>PALOST- PUMP</u>

**Field Parameters**

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
<u>2:15</u>	<u>1/2</u>	<u>18.48</u>	<u>1.314</u>	<u>4.93</u>	<u>7.04</u>	<u>-8.0</u>	
<u>2:20</u>	<u>1/2</u>	<u>18.46</u>	<u>1.264</u>	<u>1.09</u>	<u>7.05</u>	<u>19.4</u>	

**Sample Observations**

Characteristic	None	Slight	Moderate	Strong	Comments
Color	<input checked="" type="checkbox"/>				
Odor			<input checked="" type="checkbox"/>		
Turbidity	<input checked="" type="checkbox"/>				
Sheen		<input checked="" type="checkbox"/>			
Floating Particles					
Precipitate					

Sample Time 2:20

Sampler's Signature 

Ground Water Monitoring Field Sheet

Site St. Francis Pie Shop

Project Number \_\_\_\_\_

Sampling Personnel ASH

Date 11/20/07

Weather Conditions SUN

Well ID MW-2

Casing Diameter (inches) 3/4"

Depth to Water (ft) 5.95'

Total Depth (ft) 20'

Water Column (ft) 14.05'

One Well Volume (gal) \_\_\_\_\_

3X Well Volume (gal) 1

Notes:

One Well Volume is determined by multiplying "Water Column" by:

\* 0.059 for 3/4 inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

**Field Methods (check appropriate box)**

Activity	Bailer	Pump	Comments
<u>Purge</u>		<u>X</u>	<u>12' Parasit. Pump</u>

**Field Parameters**

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
<u>1:30</u>	<u>1/2</u>	<u>19.47</u>	<u>1.89</u>	<u>9.23</u>	<u>6.88</u>	<u>127.4</u>	
<u>1:35</u>	<u>1/2</u>	<u>19.65</u>	<u>1.53</u>	<u>1.19</u>	<u>6.86</u>	<u>98.5</u>	

**Sample Observations**

Characteristic	None	Slight	Moderate	Strong	Comments
Color	<u>✓</u>				
Odor			<u>✓</u>		
Turbidity		<u>✓</u>			
Sheen		<u>✓</u>			
Floating Particles					
Precipitate					

Sample Time 1:35

Sampler's Signature 

Ground Water Monitoring Field Sheet

Site St. Francis Pie Shop

Project Number \_\_\_\_\_

Sampling Personnel AK

Date 11/20/04

Weather Conditions SUN

Well ID MW-3

Casing Diameter (inches) 3.411

Depth to Water (ft) 7.05

Total Depth (ft) 20'

Water Column (ft) 12.95

One Well Volume (gal) \_\_\_\_\_

3X Well Volume (gal) 1

Notes:

One Well Volume is determined by multiplying "Water Column" by:

\* 0.059 for 3/4 inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

**Field Methods (check appropriate box)**

Activity	Bailer	Pump	Comments
<u>ANALYSIS</u>		<u>X</u>	<u>PERIST. Pump</u>

**Field Parameters**

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
<u>10:05</u>	<u>1/2</u>	<u>18.62</u>	<u>1.166</u>	<u>5.11</u>	<u>7.04</u>	<u>271.3</u>	
<u>10:10</u>	<u>1/2</u>	<u>18.75</u>	<u>1.087</u>	<u>3.48</u>	<u>7.15</u>	<u>513.9</u>	

**Sample Observations**

Characteristic	None	Slight	Moderate	Strong	Comments
Color	<u>/</u>				
Odor	<u>/</u>				
Turbidity	<u>/</u>				
Sheen	<u>/</u>				
Floating Particles					
Precipitate					

Sample Time 10:10

Sampler's Signature 

### Ground Water Monitoring Field Sheet

Site St. Francis Pie Shop

Project Number \_\_\_\_\_

Sampling Personnel APK

Date 11/20/07

Weather Conditions SUN

Well ID MW-4

Casing Diameter (inches) 3/4"

Depth to Water (ft) 7.47'

Total Depth (ft) 20'

Water Column (ft) 12.53'

One Well Volume (gal) \_\_\_\_\_

3X Well Volume (gal) 1

Notes:

One Well Volume is determined by multiplying "Water Column" by:

\* 0.059 for 3/4 inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

**Field Methods (check appropriate box)**

Activity	Bailer	Pump	Comments
<u>PURGE</u>		<u>X</u>	<u>PARAST. PRMP</u>

**Field Parameters**

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
<u>11:05</u>	<u>1/2</u>	<u>13.53</u>	<u>0.564</u>	<u>1.15</u>	<u>7.19</u>	<u>208.7</u>	
<u>11:10</u>	<u>1/2</u>	<u>18.55</u>	<u>0.003</u>	<u>10.18</u>	<u>7.09</u>	<u>248.4</u>	

**Sample Observations**

Characteristic	None	Slight	Moderate	Strong	Comments
Color	<u>/</u>				
Odor	<u>/</u>				
Turbidity	<u>/</u>				
Sheen	<u>/</u>				
Floating Particles					
Precipitate					

Sample Time 11:10

Sampler's Signature 

Ground Water Monitoring Field Sheet

MW-2 - 5.95'  
MW-1 - 6.28'

Site St. Francis Pie Shop

Project Number \_\_\_\_\_

Sampling Personnel AJG

Date 11/20/07

Weather Conditions SUN

Well ID MW-5

Casing Diameter (inches) 3/4"

Depth to Water (ft) 8.04

Total Depth (ft) 20'

Water Column (ft) 11.96'

One Well Volume (gal) \_\_\_\_\_

3X Well Volume (gal) 1

Notes:

One Well Volume is determined by multiplying "Water Column" by:

\* 0.059 for 3/4 inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

**Field Methods (check appropriate box)**

Activity	Bailer	Pump	Comments
<u>PUMP</u>		<u>X</u>	<u>PALAST. PUMP</u>

**Field Parameters**

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
<u>12:05</u>		<u>18.44</u>	<u>1.102</u>	<u>7.42</u>	<u>6.81</u>	<u>354.0</u>	
<u>12:10</u>		<u>19.55</u>	<u>1.165</u>	<u>2.09</u>	<u>6.89</u>	<u>256.9</u>	

**Sample Observations**

Characteristic	None	Slight	Moderate	Strong	Comments
Color	<u>/</u>				
Odor	<u>/</u>				
Turbidity	<u>/</u>				
Sheen	<u>/</u>				
Floating Particles					
Precipitate					

Sample Time 12:10

Sampler's Signature 



**ATTACHMENT B**

**LABORATORY DATA REPORTS AND  
CHAIN-OF-CUSTODY RECORDS**

02 December 2007

Jim Gribi  
Gribi Associates  
1090 Adam Street, Suite K  
Benicia, CA 94510  
RE: St Francis Pie Shop

Enclosed are the results of analyses for samples received by the laboratory on 11/24/07 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Albert Vargas".

Albert Vargas  
Project Coordinator

SunStar Laboratories, Inc.  
 3002 Dow Ave, Suite 212  
 Tustin, CA 92780  
 1-800-781-6777

### Chain of Custody Record

Client: GRIBI ASSOCIATES

Address: 1090 ADAMS STREET, SUITE K

Phone: (707) 748-7743 Fax: (707) 748-7763

Project Manager: JAMES GRIBI

Date: 11/22/07 Page: 1 Of 1

Project Name: ST. FRANCIS P.I.E. SHOP

Collector: MARIN GARCIA Client Project #: 224-01-03

Batch #: 7701531 Proposal #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB (8260B)	EPA 8260 (Full List)	Halogenated VOCs (8260B)	Laboratory ID #	Preservative	Comments	Total # of containers
MW-1	11/22/07	1:20	WATER	VOA						X						01	ACL		1
MW-2		5:10								X						02	ACL		1
MW-3		10:10								X						03	ACL		1
MW-4		11:10								X						04	ACL		1
MW-5		12:10								X						05	ACL		1
		1:35																	

**STD. TAT**  
*[Signature]*

13

Relinquished by: (signature) <i>[Signature]</i>	Date / Time 11/22/07 / 1130	Received by: (signature) <i>[Signature]</i>	Date / Time 11/21/07 / 1130
Relinquished by: (signature) GSO	Date / Time	Received by: (signature) <i>[Signature]</i>	Date / Time 11/18/07 / 10:00
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers	
Chain of Custody seals	<input checked="" type="checkbox"/> N/A
Seals intact?	<input checked="" type="checkbox"/> N/A
Received good condition/cold	<input checked="" type="checkbox"/> 3.2
Turn around time:	

Notes  
 N/A  
 EDP  
 FILE

Gribi Associates  
1090 Adam Street, Suite K  
Benicia CA, 94510

Project: St Francis Pie Shop  
Project Number: 224-01-03  
Project Manager: Jim Gribi

**Reported:**  
12/02/07 11:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T701531-01	Water	11/20/07 14:20	11/24/07 10:00
MW-2	T701531-02	Water	11/20/07 13:35	11/24/07 10:00
MW-3	T701531-03	Water	11/20/07 10:10	11/24/07 10:00
MW-4	T701531-04	Water	11/20/07 11:10	11/24/07 10:00
MW-5	T701531-05	Water	11/20/07 12:10	11/24/07 10:00

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Albert Vargas, Project Coordinator

Gribi Associates  
 1090 Adam Street, Suite K  
 Benicia CA, 94510

Project: St Francis Pie Shop  
 Project Number: 224-01-03  
 Project Manager: Jim Gribi

**Reported:**  
 12/02/07 11:08

**MW-1  
 T701531-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

<b>Benzene</b>	<b>3.0</b>	0.50	ug/l	1	7112715	11/27/07	11/28/07	EPA 8260B	
<b>Toluene</b>	<b>1.4</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>2.6</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>6.8</b>	1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>2.6</b>	0.50	"	"	"	"	"	"	
<b>Tert-amyl methyl ether</b>	<b>42</b>	2.0	"	"	"	"	"	"	
<b>Tert-butyl alcohol</b>	<b>24</b>	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>1400</b>	25	"	25	"	"	11/29/07	"	
<b>C6-C12 (GRO)</b>	<b>380</b>	50	"	1	"	"	11/28/07	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>95.1 %</i>	<i>77.1-110</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>79.5 %</i>	<i>66.3-111</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>99.8 %</i>	<i>90.9-105</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

Gribi Associates  
 1090 Adam Street, Suite K  
 Benicia CA, 94510

Project: St Francis Pie Shop  
 Project Number: 224-01-03  
 Project Manager: Jim Gribi

**Reported:**  
 12/02/07 11:08

**MW-2**  
**T701531-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

<b>Benzene</b>	<b>15</b>	0.50	ug/l	1	7112715	11/27/07	11/28/07	EPA 8260B	
<b>Toluene</b>	<b>0.63</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>10</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>3.0</b>	1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>0.76</b>	0.50	"	"	"	"	"	"	
<b>Tert-amyl methyl ether</b>	<b>43</b>	2.0	"	"	"	"	"	"	
<b>Tert-butyl alcohol</b>	<b>57</b>	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>2100</b>	25	"	25	"	"	11/29/07	"	
<b>C6-C12 (GRO)</b>	<b>1500</b>	50	"	1	"	"	11/28/07	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.9 %		77.1-110	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		79.6 %		66.3-111	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.0 %		90.9-105	"	"	"	"	

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**Reported:**  
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**MW-3**  
**T701531-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Benzene	ND	0.50	ug/l	1	7112715	11/27/07	11/28/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>12</b>	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.1 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		85.6 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.5 %	90.9-105		"	"	"	"	

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 Project Number: 224-01-03  
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**Reported:**  
 12/02/07 11:08

**MW-4**  
**T701531-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Benzene	ND	0.50	ug/l	1	7112715	11/27/07	11/28/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>26</b>	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.1 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		84.4 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.5 %	90.9-105		"	"	"	"	

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**MW-5  
 T701531-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Benzene	ND	0.50	ug/l	1	7112715	11/27/07	11/28/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>17</b>	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>91.0 %</i>	<i>77.1-110</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>86.1 %</i>	<i>66.3-111</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>99.2 %</i>	<i>90.9-105</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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**Reported:**  
 12/02/07 11:08

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7112715 - EPA 5030 GCMS**

**Blank (7112715-BLK1)**

Prepared: 11/27/07 Analyzed: 11/28/07

Surrogate: 4-Bromofluorobenzene	7.75		ug/l	8.00		96.9	77.1-110			
Surrogate: Dibromofluoromethane	6.95		"	8.00		86.9	66.3-111			
Surrogate: Toluene-d8	7.91		"	8.00		98.9	90.9-105			
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
C6-C12 (GRO)	ND	50	"							

**LCS (7112715-BS1)**

Prepared: 11/27/07 Analyzed: 11/28/07

Surrogate: 4-Bromofluorobenzene	7.68		ug/l	8.00		96.0	77.1-110			
Surrogate: Dibromofluoromethane	6.39		"	8.00		79.9	66.3-111			
Surrogate: Toluene-d8	8.00		"	8.00		100	90.9-105			
Benzene	20.3	0.50	"	20.0		102	75-125			
Toluene	20.5	0.50	"	20.0		103	75-125			

**LCS Dup (7112715-BSD1)**

Prepared: 11/27/07 Analyzed: 11/28/07

Surrogate: 4-Bromofluorobenzene	7.55		ug/l	8.00		94.4	77.1-110			
Surrogate: Dibromofluoromethane	6.36		"	8.00		79.5	66.3-111			
Surrogate: Toluene-d8	7.83		"	8.00		97.9	90.9-105			
Benzene	20.1	0.50	"	20.0		100	75-125	1.24	20	
Toluene	20.3	0.50	"	20.0		101	75-125	1.27	20	

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**Reported:**  
12/02/07 11:08

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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