



**RECEIVED**

9:08 am, Feb 10, 2010

Alameda County  
Environmental Health

December 29, 2009

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

Attention: Barbara Jakub

Subject: Third Quarter 2009 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 Third Quarter 2009 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 September 29, 2009.

#### **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 September 29, 2009.
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 6.53 feet (MW-2) to 10.09 feet (MW-5).
2. Groundwater elevations ranged from 33.66 feet above means sea level (msl) (MW-5) to 37.29 feet msl (MW-1).
3. Groundwater flow direction is variable, generally trending to the west-southwest.
4. Groundwater elevations and elevation contours are shown on Figure 3.

### **Laboratory Analytical Results**

1. Groundwater samples from the five sampled wells were analyzed for the following parameters with standard method turn around time on results:
  - a. USEPA 8260B Total Petroleum Hydrocarbons as Gasoline (TPH-G)
  - b. USEPA 8260B 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 and MW-2.
  - a. The MTBE/TBA groundwater plume is concentrated below the former underground storage tank, fuel dispenser, and conveyance piping locations.
  - b. The groundwater MTBE/TBA groundwater plume does not appear to be migrating significantly in a downgradient direction.
  - c. Groundwater MTBE concentrations in source area well MW-1 seem to be trending downward over time, indicating natural attenuation of the MTBE.

## **RECOMMENDATIONS**

1. We believe that this site should be reviewed for regulatory closure as a “low risk” commercial property, based on the following criteria:
  - a. The source (UST, piping, and soil/groundwater overexcavation) has been removed.
  - b. The site has been adequately characterized, essentially to nondetect in all directions.

- c. The contaminant plume is not migrating, and chemical concentrations in groundwater are expected to meet water quality objectives in the future.
- d. No other waters of the State, water supply wells, or other sensitive receptors are likely to be impacted.
- e. The site does not pose a significant risk to human health or safety.

### PLANNED ACTIVITIES

1. Gribi Associates plans to conduct quarterly groundwater monitoring during the fourth quarter of 2009.

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



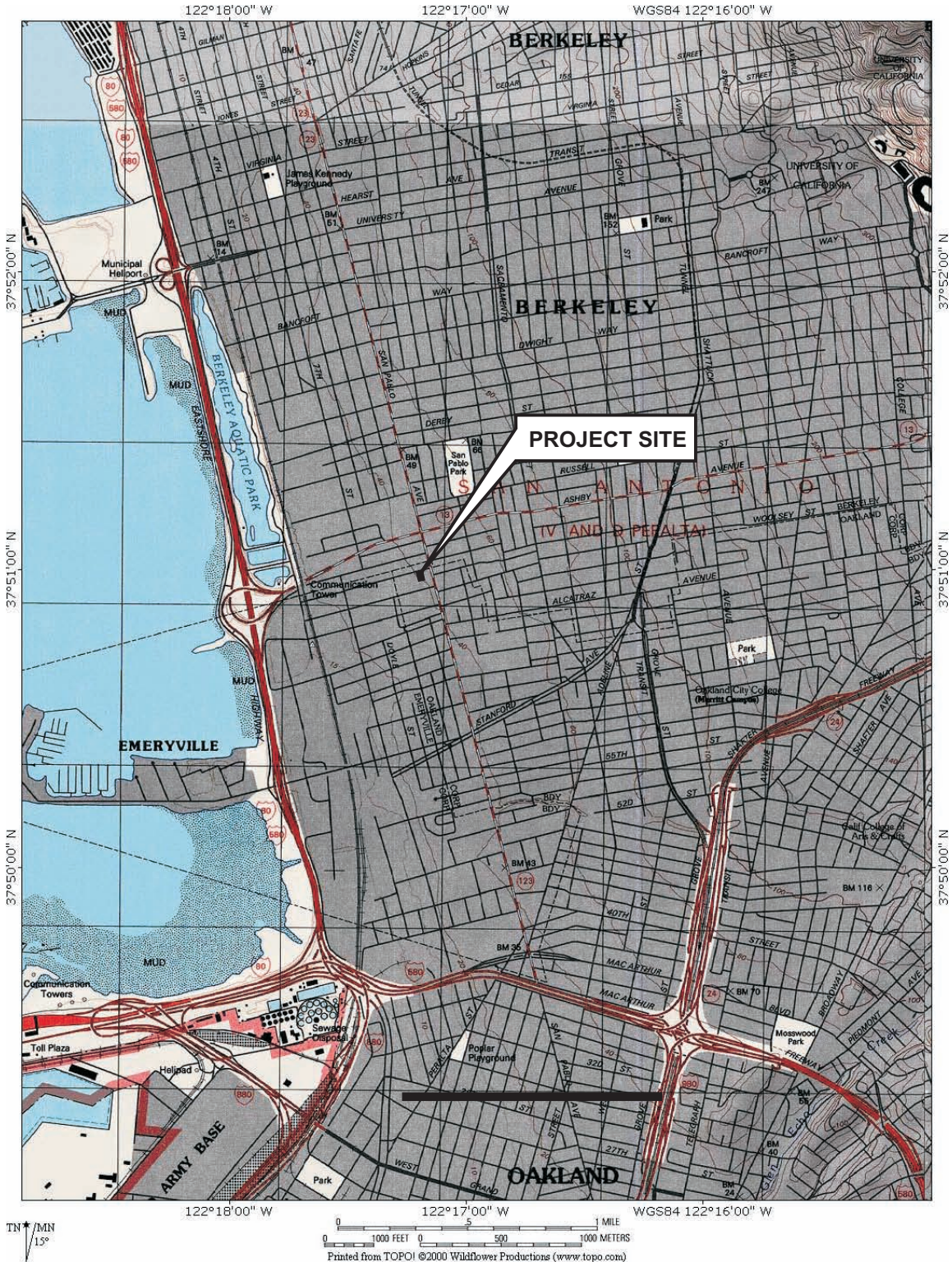
James E. Gribi  
Professional Geologist  
California No. 5843



Enclosure

cc: Mr. John Buschini, Jr.

## FIGURES

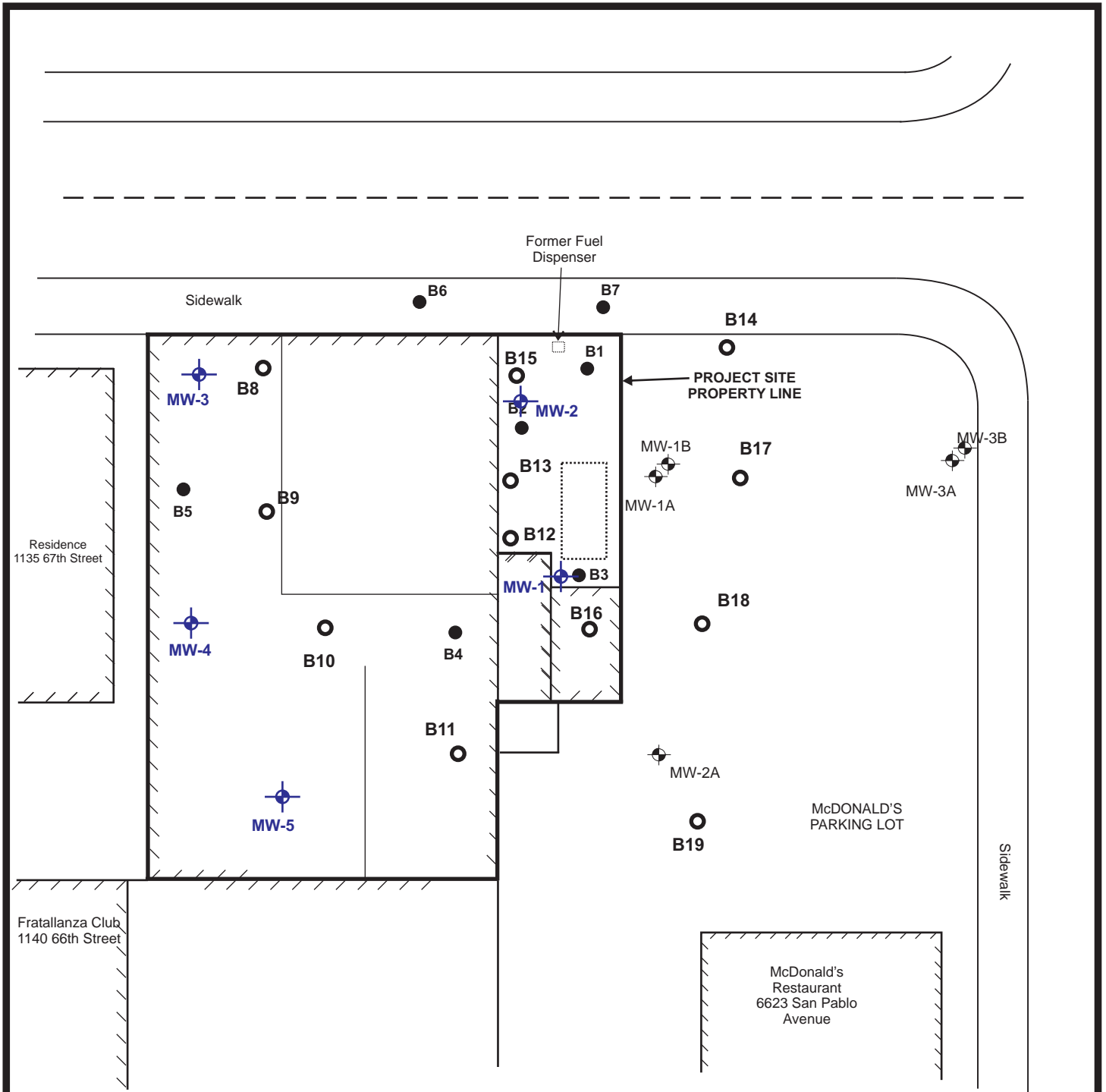


DESIGNED BY:	CHECKED BY:
DRAWN BY: JG	SCALE:
PROJECT NO: 320-01-01	

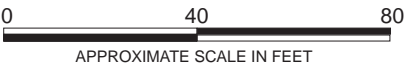
**SITE VICINITY MAP**

ST. FRANCIS PIE SHOP  
1125 67th STREET  
OAKLAND, CALIFORNIA

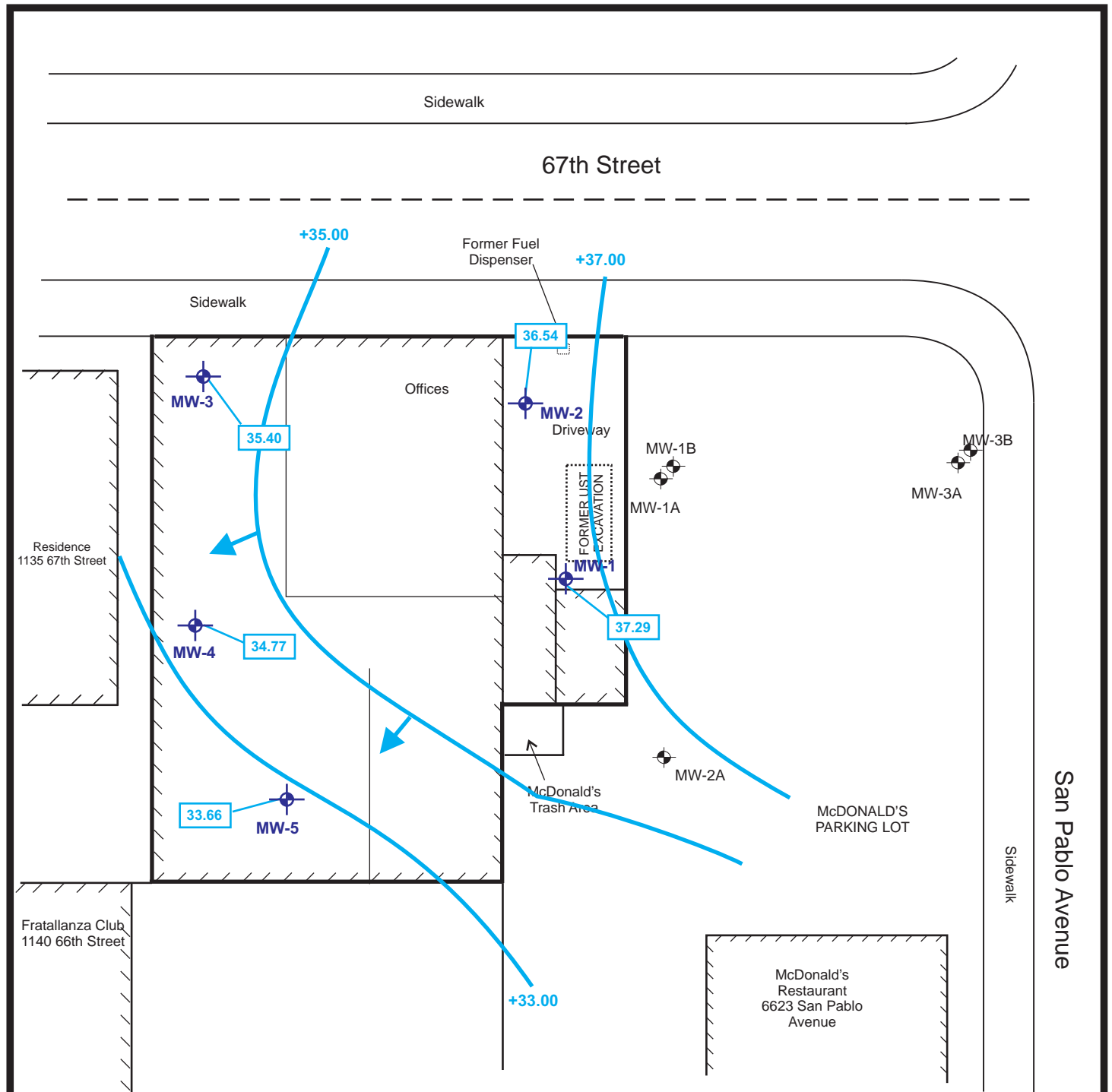
DATE: 08/20/07	FIGURE: 1



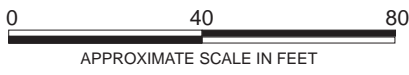
- - SOIL BORING LOCATION (GRIBI ASSOCIATES, 10/2006)
- ⊕ - GROUNDWATER MONITORING WELL LOCATION (GRIBI ASSOCIATES, 02/2007).
- - SOIL BORING LOCATION (TEC ACCUTITE, 10/2005)
- ⊕ - GROUNDWATER MONITORING WELL, (BASELINE, 01/99)



DESIGNED BY:	CHECKED BY: JEG	<b>SITE PLAN</b>	DATE: 12/29/2009	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)

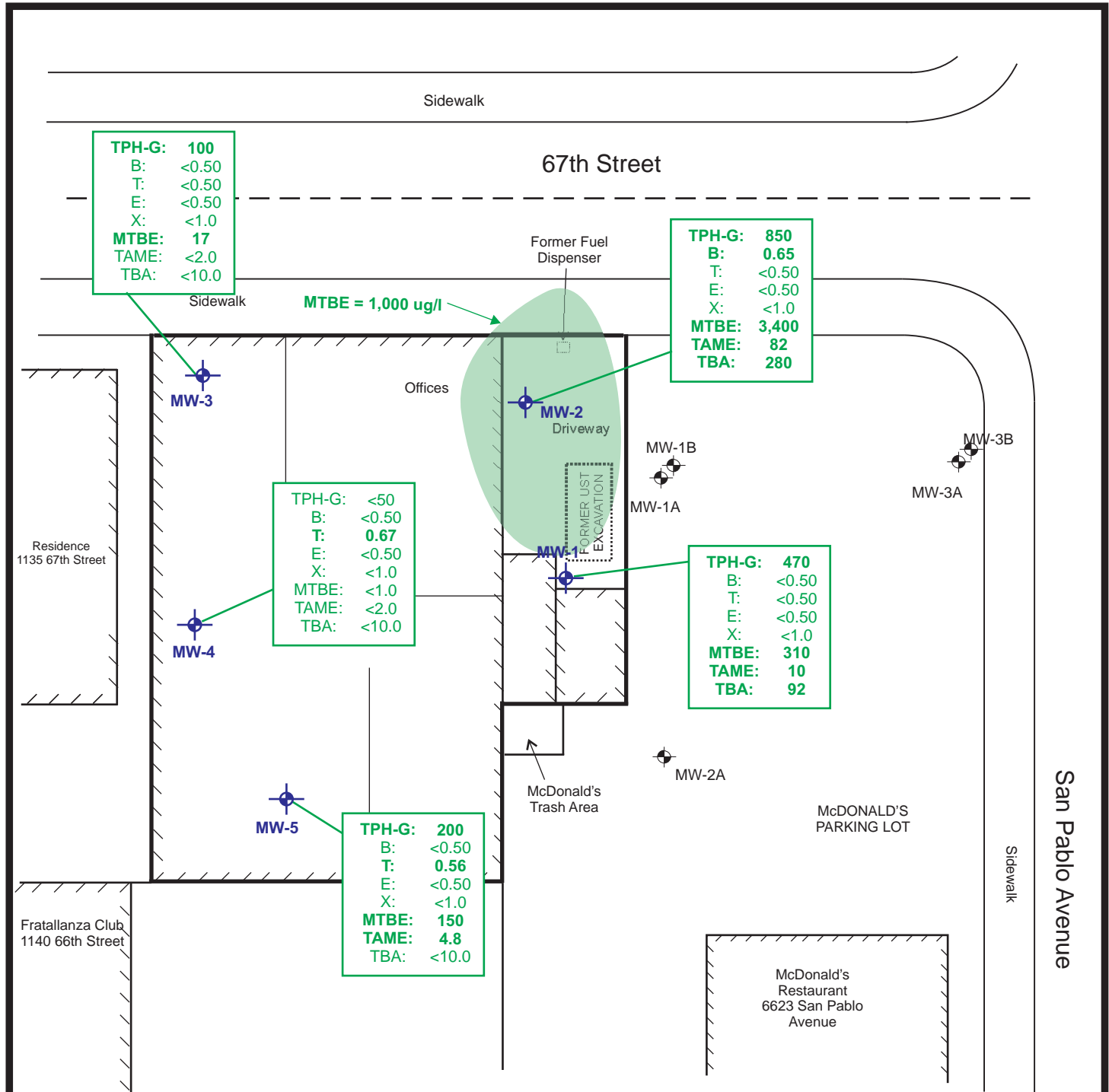


DESIGNED BY:	CHECKED BY: JEG
DRAWN BY: JEG	SCALE:
PROJECT NO: 320-01-01	

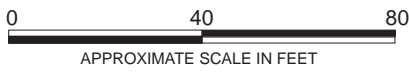
**SHALLOW GROUNDWATER ELEVATIONS - 09/28/09**  
 ST. FRANCIS PIE SHOP UST SITE  
 1125 67TH STREET  
 OAKLAND, CALIFORNIA

DATE: 12/29/2009      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 - 09/28/09</b>  ST. FRANCIS PIE SHOP UST SITE 1125 67TH STREET OAKLAND, CALIFORNIA	DATE: 12/29/2009	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.	Concentration (micrograms per liter, ug/l)						
				TPH-G	B	T	E	X	MTBE	Oxy
MW-1	03/08/2007	4.86	39.54	130	<0.50	<0.50	<0.50	<1.0	5,800	TAME=220 TBA=2,500
<44.40>	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
	02/29/2008	4.89	39.51	270	<0.50	<0.50	<0.50	<1.0	770	TAME=36 TBA=87
	05/29/2008	7.12	37.28	350	<0.50	<0.50	<0.50	<1.0	1,900	TAME=88 TBA=390
	09/18/2008	7.20	37.20	<50	<0.50	<0.50	0.87	1.5	2,600	TAME=37
	12/02/2008	6.81	37.59	840	<0.50	<0.50	<0.50	<1.0	2,600	TAME=88
	02/27/2009	4.55	39.85	770	0.70	<0.50	0.55	<1.0	760	TAME=51 TBA=590
	09/28/2009	7.11	37.29	470	<0.50	<0.50	<0.50	<1.0	310	TAME=10 TBA=92
MW-2	03/08/2007	4.99	38.08	210	5.6	<0.50	4.8	<1.0	2,000	TAME=40 TBA=1,400
<43.07>	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
	02/29/2008	4.39	38.68	510	4.4	<0.50	2.8	<1.0	1,600	TAME=45 TBA=150
	05/29/2008	6.47	36.60	350	1.5	<0.50	0.54	<1.0	2,600	TAME=55 TBA=110
	09/18/2008	6.80	36.27	<50	<0.50	<0.50	<0.50	<1.0	2,400	TAME=60
	12/02/2008	6.26	36.81	1,500	5.6	<0.50	2.0	1.6	4,900	TAME=140
	02/27/2009	3.72	39.35	1,400	4.4	0.94	2.1	4.69	2,800	TAME=65 TBA=190
	09/28/2009	6.53	36.54	850	0.65	<0.50	<0.50	<1.0	3,400	TAME=82 TBA=280
MW-3	03/08/2007	5.79	37.63	<50	<0.50	<0.50	<0.50	<1.0	11	ND
<43.42>	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
	02/29/2008	5.48	37.94	<50	<0.50	<0.50	<0.50	<1.0	1.5	ND
	05/29/2008	7.78	35.64	<50	<0.50	<0.50	<0.50	<1.0	68	ND
	09/18/2008	8.14	35.28	<50	<0.50	<0.50	0.59	<1.0	100	TAME=2.6
	12/02/2008	7.55	35.87	130	<0.50	<0.50	<0.50	<1.0	410	ND
	02/27/2009	4.78	38.64	<50	3.0	0.64	1.6	3.61	64	ND
	09/28/2009	8.02	35.40	100	<0.50	<0.50	<0.50	<1.0	17	ND
MW-4	03/08/2007	5.42	38.10	<50	<0.50	<0.50	<0.50	<1.0	5.6	ND
<43.52>	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
	02/29/2008	5.26	38.26	<50	<0.50	<0.50	<0.50	<1.0	12	ND
	05/29/2008	8.73	34.79	<50	<0.50	<0.50	<0.50	<1.0	35	ND

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

Well ID	Date	GW Depth	GW Elev.	Concentration (micrograms per liter, ug/l)						
				TPH-G	B	T	E	X	MTBE	Oxy
	09/18/2008	9.08	34.44	<50	<0.50	<0.50	<0.50	<1.0	<b>16</b>	ND
	12/02/2008	8.10	35.42	<50	<0.50	<0.50	<0.50	<1.0	<b>57</b>	ND
	02/27/2009	4.74	38.78	<b>57</b>	<b>2.0</b>	<0.50	<b>1.2</b>	<b>2.3</b>	<b>77</b>	<b>TAME=2.1</b>
	09/28/2009	8.75	34.77	<50	<0.50	<b>0.67</b>	<0.50	<1.0	<1.0	ND
<b>MW-5</b>	03/08/2007	6.98	36.77	<50	<0.50	<0.50	<0.50	<1.0	<b>3.2</b>	ND
<43.75>	05/31/2007	7.02	36.73	<50	<0.50	<0.50	<0.50	<1.0	<b>15</b>	ND
	09/07/2007	9.20	34.55	<50	<0.50	<0.50	<0.50	<1.0	<b>42</b>	ND
	11/20/2007	8.04	35.71	<50	<0.50	<0.50	<0.50	<1.0	<b>17</b>	ND
	02/29/2008	7.27	36.48	<50	<0.50	<0.50	<0.50	<1.0	<b>7.1</b>	ND
	05/29/2008	10.08	33.67	<50	<0.50	<0.50	<0.50	<1.0	<b>56</b>	ND
	09/18/2008	10.35	33.40	<50	<0.50	<0.50	<0.50	<1.0	<b>96</b>	<b>TAME=2.2</b>
	12/02/2008	9.67	34.08	<50	<0.50	<0.50	<0.50	<0.50	<b>58</b>	ND
	02/27/2009	5.86	37.89	<50	<b>1.0</b>	<0.50	<b>0.72</b>	<b>1.3</b>	<b>54</b>	ND
	09/28/2009	10.09	33.66	<b>200</b>	<0.50	<b>0.56</b>	<0.50	<0.50	<b>150</b>	<b>TAME=4.8</b>

**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 SFPS

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

Sampling Personnel ATG

Date 9/23/09

Weather Conditions SUN

Well ID MW-1

Casing Diameter (inches) 3/4"

Depth to Water (ft) 7.11

Total Depth (ft) 20'

Water Column (ft) 12.89

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

3X Well Volume (gal) 2

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>PARAST. Pump</u>

**Field Parameters**

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
<u>1:55</u>	<u>1</u>	<u>67.3</u>	<u>1121</u>		<u>8.11</u>		
<u>2:00</u>	<u>1</u>	<u>61.1</u>	<u>1125</u>		<u>8.09</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 2:00

Sampler's Signature ATG

Ground Water Monitoring Field Sheet

Site SFPS

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

Sampling Personnel ASG

Date 9/18/09

Weather Conditions SUN

Well ID MW-2

Casing Diameter (inches) 3/4"

Depth to Water (ft) 6.53'

Total Depth (ft) 20'

Water Column (ft) 13.47

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

3X Well Volume (gal) 2

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>None</u>		<u>X</u>	<u>PARAST-Pump</u>

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
<u>11:55</u>	<u>1</u>	<u>67.5</u>	<u>1235</u>		<u>8.01</u>		
<u>12:00</u>	<u>1</u>	<u>66.9</u>	<u>1175</u>		<u>8.05</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 12:00

Sampler's Signature ASG

Ground Water Monitoring Field Sheet

Site SPPS

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

Sampling Personnel ADH

Date 9/28/05

Weather Conditions SUN

Well ID MW-3

Casing Diameter (inches) 3/4"

Depth to Water (ft) 8.02

Total Depth (ft) 20'

Water Column (ft) 11.98

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

3X Well Volume (gal) 2

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>PERAST. Pump</u>

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
<u>7:55</u>	<u>1</u>	<u>66.2</u>	<u>1295</u>		<u>7.98</u>		
<u>8:00</u>	<u>1</u>	<u>65.3</u>	<u>1011</u>		<u>8.03</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 8:00

Sampler's Signature [Signature]

Ground Water Monitoring Field Sheet

Site SFPS Project Number \_\_\_\_\_  
 Sampling Personnel AJK Date 9/28/09  
 Weather Conditions SVN  
 Well ID MW-4 Casing Diameter (inches) 3/4"  
 Depth to Water (ft) 8.75 Total Depth (ft) 20  
 Water Column (ft) 11.25 One Well Volume (gal) \_\_\_\_\_  
 3X Well Volume (gal) 2

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>Pearce Pump</u>

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
<u>8:55</u>	<u>1</u>	<u>65.3</u>	<u>1107</u>		<u>8.20</u>		
<u>9:00</u>	<u>1</u>	<u>66.1</u>	<u>906</u>		<u>8.15</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 9:00

Sampler's Signature AJK



Ground Water Monitoring Field Sheet

Site SFPS

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

Sampling Personnel AJK

Date 9/20/09

Weather Conditions SUN

Well ID MW-5

Casing Diameter (inches) 3/4"

Depth to Water (ft) 12.09

Total Depth (ft) 20'

Water Column (ft) 9.91

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

3X Well Volume (gal) 2

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>Probe</u>		<input checked="" type="checkbox"/>	<u>PAAGST. Pump</u>

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
<u>9:55</u>	<u>1</u>	<u>12.5</u>	<u>67.2</u>		<u>8.00</u>		
<u>10:00</u>	<u>1</u>	<u>12.5</u>	<u>66.3</u>		<u>8.10</u>		
		<u>12.5</u>					
		<u>12.25</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 10:00

Sampler's Signature [Signature]

**ATTACHMENT B**

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



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

07 October 2009

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 10/02/09 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*John J. Shepler*

John Shepler  
Laboratory Director

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: 9/30/09 Page:      Of       
 Project Name: ST. FRANCIS PIE SHOP  
 Collector: ARON GALLIA Client Project #:       
 Batch #: 7900911 Proposal #:     

Sample ID	Date Sampled	Time	Sample Type	Container Type	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Gas (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	9/28/09	2:00	NATURAL	VGA					X			X				01			1
MW-2	9/28/09	12:00							X			X				02			1
MW-3	9/28/09	8:00							X			X				03			1
MW-4	9/28/09	9:00							X			X				04			1
MW-5	9/28/09	10:00							X			X				05			1

**STD. TAT**  
10/2/09

60

Relinquished by: (signature) <i>[Signature]</i>	Date / Time 9/30/09 11:30	Received by: (signature) <i>[Signature]</i>	Date / Time 10/1 11:30
Relinquished by: (signature) <i>[Signature]</i>	Date / Time 9/30/09 11:30	Received by: (signature) <i>[Signature]</i>	Date / Time 10/1 11:30
Relinquished by: (signature) <i>[Signature]</i>	Date / Time 10/2/09 9:30	Received by: (signature) <i>[Signature]</i>	Date / Time 10/2/09 9:30

Total # of containers 20  
 Chain of Custody seals Y/N/NA Y  
 Seals intact? Y/N/NA Y  
 Received good condition/cold 6.3  
 Turn around time: \_\_\_\_\_

Notes  
*NEW EHS FILE*

Sample disposal Instructions: Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_



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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:**  
10/07/09 14:30

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T900911-01	Water	09/28/09 14:00	10/02/09 09:30
MW-2	T900911-02	Water	09/28/09 12:00	10/02/09 09:30
MW-3	T900911-03	Water	09/28/09 08:00	10/02/09 09:30
MW-4	T900911-04	Water	09/28/09 09:00	10/02/09 09:30
MW-5	T900911-05	Water	09/28/09 10:00	10/02/09 09:30

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Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Project: St Francis Pie Shop Project Number: 224-01-03 Project Manager: Jim Gribi	<b>Reported:</b> 10/07/09 14:30
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**MW-1**  
**T900911-01 (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**

Benzene	ND	0.50	ug/l	1	9100207	10/02/09	10/05/09	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
<b>Tert-amyl methyl ether</b>	<b>10</b>	2.0	"	"	"	"	"	"	
<b>Tert-butyl alcohol</b>	<b>92</b>	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>310</b>	5.0	"	5	"	"	"	"	
<b>C6-C12 (GRO)</b>	<b>470</b>	50	"	1	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.5 %		84.7-109	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.5 %		83.5-119	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		121 %		81.1-136	"	"	"	"	

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Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Project: St Francis Pie Shop Project Number: 224-01-03 Project Manager: Jim Gribi	<b>Reported:</b> 10/07/09 14:30
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**MW-2**  
**T900911-02 (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>0.65</b>	0.50	ug/l	1	9100207	10/02/09	10/02/09	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
<b>Tert-amyl methyl ether</b>	<b>82</b>	2.0	"	"	"	"	"	"	
<b>Tert-butyl alcohol</b>	<b>280</b>	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>3400</b>	50	"	50	"	"	10/06/09	"	
<b>C6-C12 (GRO)</b>	<b>850</b>	50	"	1	"	"	10/02/09	"	
<i>Surrogate: Toluene-d8</i>		99.5 %		84.7-109	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %		83.5-119	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		110 %		81.1-136	"	"	"	"	

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**MW-3**  
**T900911-03 (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	9100207	10/02/09	10/05/09	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	"	"	"	"	"	"	
<b>C6-C12 (GRO)</b>	<b>100</b>	50	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.5 %	84.7-109		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.5 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		114 %	81.1-136		"	"	"	"	

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Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Project: St Francis Pie Shop Project Number: 224-01-03 Project Manager: Jim Gribi	<b>Reported:</b> 10/07/09 14:30
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**MW-4**  
**T900911-04 (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	9100207	10/02/09	10/05/09	EPA 8260B	
<b>Toluene</b>	<b>0.67</b>	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	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.5 %	84.7-109		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.6 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		119 %	81.1-136		"	"	"	"	

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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:**  
10/07/09 14:30

**MW-5  
T900911-05 (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	9100207	10/02/09	10/02/09	EPA 8260B	
<b>Toluene</b>	<b>0.56</b>	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
<b>Tert-amyl methyl ether</b>	<b>4.8</b>	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>150</b>	5.0	"	5	"	"	10/05/09	"	
<b>C6-C12 (GRO)</b>	<b>200</b>	50	"	1	"	"	10/02/09	"	
<i>Surrogate: Toluene-d8</i>		99.6 %		84.7-109	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.0 %		83.5-119	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %		81.1-136	"	"	"	"	

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

Reported:  
 10/07/09 14:30

**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 9100207 - EPA 5030 GCMS**

**Blank (9100207-BLK1)**

Prepared & Analyzed: 10/02/09

Benzene	ND	0.50	ug/l							
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	"							

<i>Surrogate: Toluene-d8</i>	7.96		"	8.00		99.5	84.7-109			
<i>Surrogate: 4-Bromofluorobenzene</i>	7.75		"	8.00		96.9	83.5-119			
<i>Surrogate: Dibromofluoromethane</i>	8.82		"	8.00		110	81.1-136			

**LCS (9100207-BS1)**

Prepared & Analyzed: 10/02/09

Chlorobenzene	21.1	1.0	ug/l	20.0		106	75-125			
1,1-Dichloroethene	23.1	1.0	"	20.0		116	75-125			
Trichloroethene	20.9	1.0	"	20.0		105	75-125			
Benzene	21.4	0.50	"	20.0		107	75-125			
Toluene	21.2	0.50	"	20.0		106	75-125			

<i>Surrogate: Toluene-d8</i>	8.08		"	8.00		101	84.7-109			
<i>Surrogate: 4-Bromofluorobenzene</i>	8.21		"	8.00		103	83.5-119			
<i>Surrogate: Dibromofluoromethane</i>	8.75		"	8.00		109	81.1-136			

**LCS Dup (9100207-BSD1)**

Prepared & Analyzed: 10/02/09

Chlorobenzene	18.9	1.0	ug/l	20.0		94.6	75-125	11.1	20	
1,1-Dichloroethene	20.0	1.0	"	20.0		100	75-125	14.6	20	
Trichloroethene	18.3	1.0	"	20.0		91.5	75-125	13.4	20	
Benzene	19.0	0.50	"	20.0		94.8	75-125	12.3	20	
Toluene	18.8	0.50	"	20.0		93.8	75-125	12.3	20	

<i>Surrogate: Toluene-d8</i>	7.99		"	8.00		99.9	84.7-109			
<i>Surrogate: 4-Bromofluorobenzene</i>	8.01		"	8.00		100	83.5-119			
<i>Surrogate: Dibromofluoromethane</i>	8.60		"	8.00		108	81.1-136			

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Project Manager: Jim Gribi

**Reported:**  
10/07/09 14:30

### 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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