March 12, 2009

Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502 RECEIVED

2:41 pm, Mar 27, 2009

Alameda County
Environmental Health

Attention: Barbara Jakub

Subject: Fourth Quarter 2008 Groundwater Monitoring Report

St. Francis Pie Shop UST Site, 1125 67th Street Oakland, California

ACDEH Site No. RO2602, Global ID: T0600109444

#### Ladies and Gentlemen:

Attached please find a copy of the *Fourth Quarter 2008 Groundwater Monitoring Report, 1125 67th Street, Oakland, California*, prepared by Gribi Associates. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Very truly yours,

John Buschini

1260 Shell Circle

John Buschi.

Clayton, CA 94517



March 12, 2009

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

Attention: Barbara Jakub

Subject: Fourth Quarter 2008 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 2008 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 December 2, 2008.

#### 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 December 2, 2008.
- 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;
  - 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 6.26 feet (MW-2) to 9.67 feet (MW-5).
- 2. Groundwater elevations ranged from 34.08 feet above means sea level (msl) (MW-5) to 37.59 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.

#### PLANNED ACTIVITIES

- 1. Gribi Associates will perform First Quarter 2009 groundwater monitoring and sampling at the site.
- 2. Gribi Associates is awaiting approval from Alameda County Department of Environmental Health to conduct an ozone injection pilot test in order to address groundwater impacts at the site.
- 3. Rather than conducting site remediation, Alameda County Department of Environmental Health may wish to review this site for case closure as a low risk site, given:
  - a. The UST source and a significant portion of source area soils and groundwater were removed during UST removal activities.



Alameda County Department of Environmental Health March 12, 2009 Page 3

- b. The site has been adequately characterized, both laterally and vertically.
- c. The hydrocarbon plume is not migrating and would be expected to attenuate over time.
- d. No other waters of the State, water supply wells, or other sensitive receptors are likely impacted by residual site hydrocarbon impacts.
- e. The residual site hydrocarbon impacts do not pose a significant risk to human health or the environment.

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

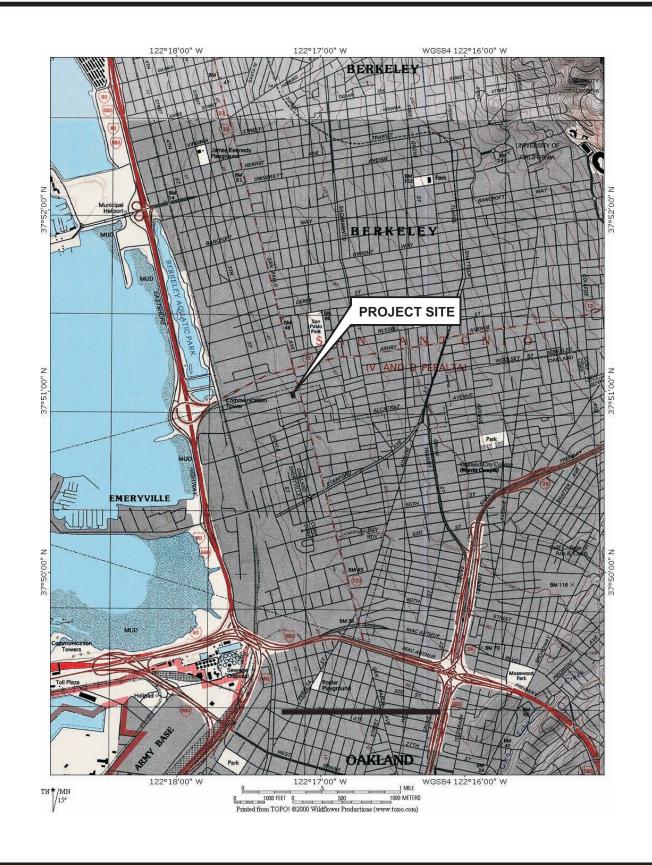
Enclosure

cc: Mr. John Buschini



#### **FIGURES**





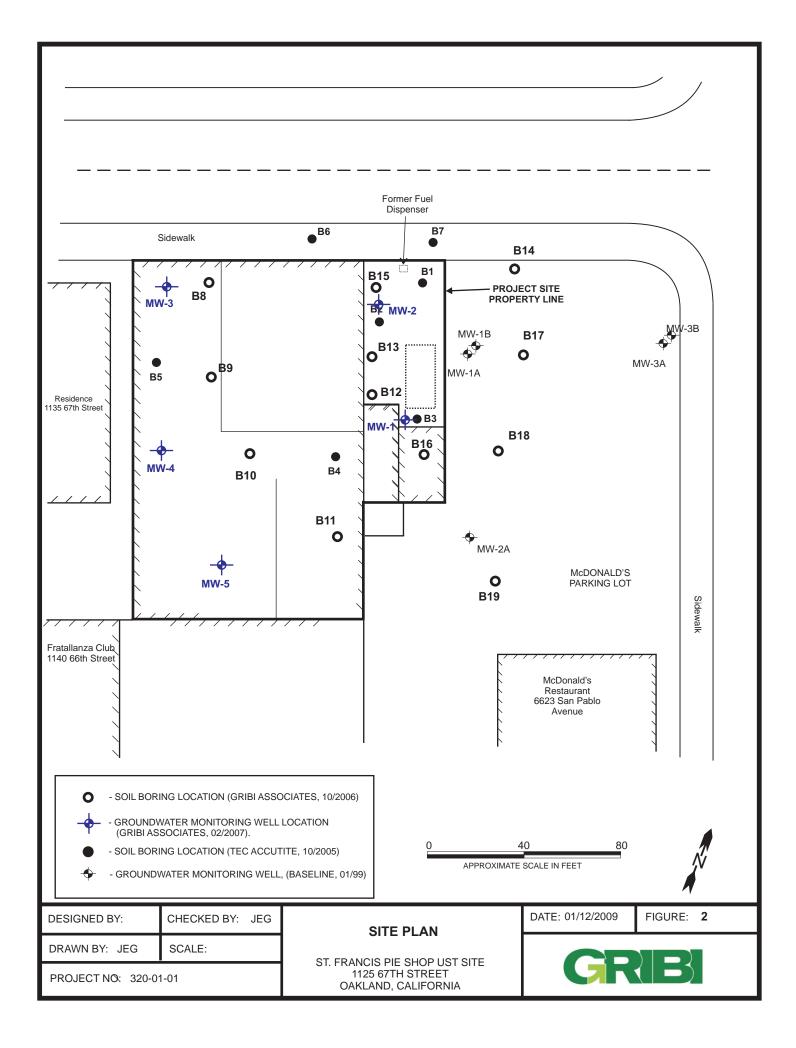
DESIGNED BY:	CHECKED BY:
DRAWN BY: JG	SCALE:
PROJECT NO: 320-01	-01

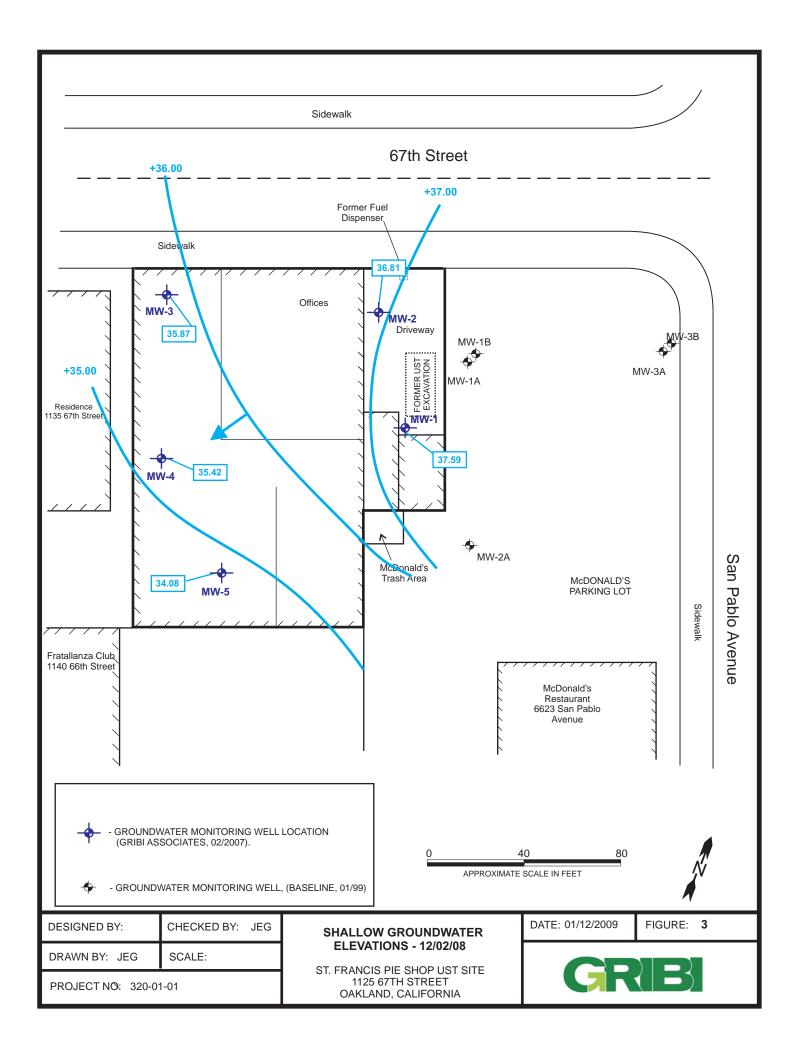
#### SITE VICINITY MAP

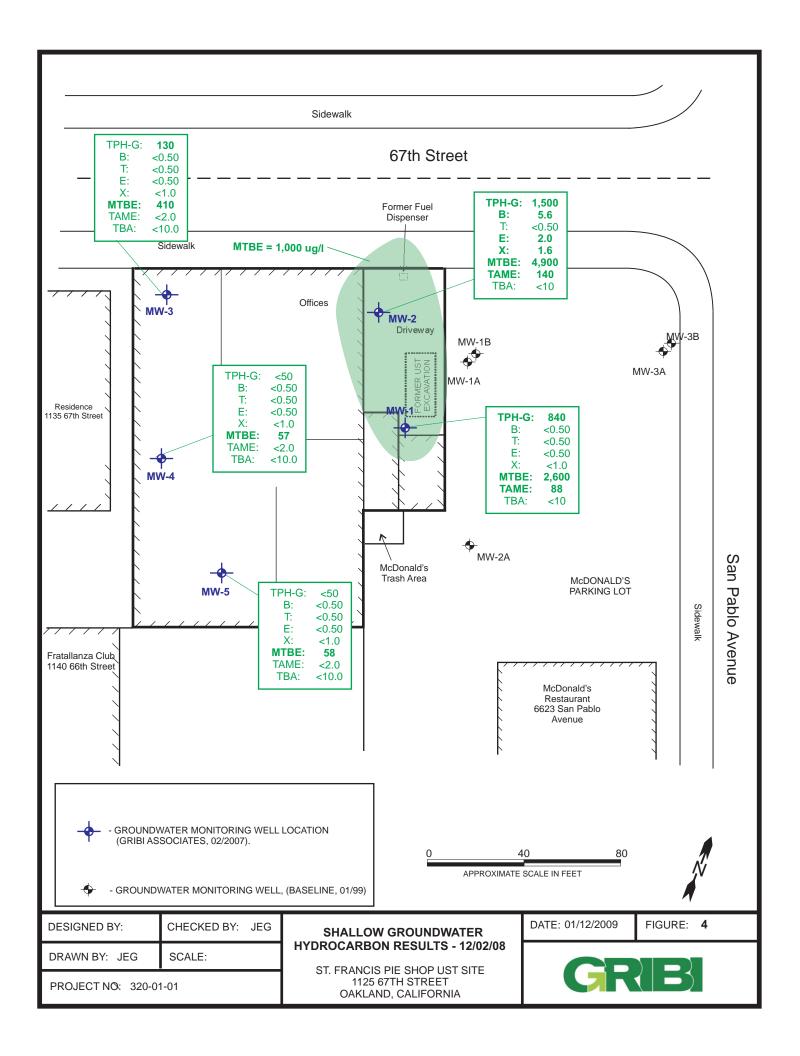
ST. FRANCIS PIE SHOP 1125 67th STREET OAKLAND, CALIFORNIA DATE: 08/20/07

FIGURE: 1









#### **TABLE**



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

St. Francis Pie Shop UST Site											
Well	Date	GW	GW		C	oncentratio	on (microg	rams per lite	er, ug/l)		
ID	Duit	Depth	Elev.	TPH-G	В	Т	Ε	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	
<44.40>	05/31/2007	6.38	38.02	250	< 0.50	< 0.50	< 0.50	<1.0	6,300	TAME=260	
	09/07/2007	6.65	37.75	100	< 0.50	< 0.50	< 0.50	<1.0	3,100	TAME=140	
	11/20/2007	6.28	38.12	380	3.0	1.4	2.6	9.4	1,400	TAME=42	
	02/29/2008	4.89	39.51	270	< 0.50	< 0.50	< 0.50	<1.0	770	TAME=36	
	05/29/2008	7.12	37.28	350	< 0.50	< 0.50	< 0.50	<1.0	1,900	TAME=88	
	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	
MW-2	03/08/2007	4.99	38.08	210	5.6	< 0.50	4.8	<1.0	2,000	TAME=40	
<43.07>	05/31/2007	6.58	36.49	240	14	< 0.50	5.2	<1.0	2,300	TAME=56	
	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	
	02/29/2008	4.39	38.68	510	4.4	< 0.50	2.8	<1.0	1,600	TAME=45	
	05/29/2008	6.47	36.60	350	1.5	< 0.50	0.54	<1.0	2,600	TAME=55	
	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	
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	
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	
	09/18/2008	9.08	34.44	<50	< 0.50	< 0.50	< 0.50	<1.0	16	ND	
	12/02/2008	8.10	35.42	<50	< 0.50	< 0.50	< 0.50	<1.0	57	ND	
MW-5	03/08/2007	6.98	36.77	<50	< 0.50	< 0.50	< 0.50	<1.0	3.2	ND	
<43.75>	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	

	Table 1 Groundwater Laboratory Analytical Results St. Francis Pie Shop UST Site											
Well	Date David Flori											
ID	Date	Depth	Elev.	TPH-G	В	T	E	X	MTBE	Oxy		
	02/29/2008	7.27	36.48	< 50	< 0.50	< 0.50	< 0.50	<1.0	7.1	ND		
	05/29/2008	10.08	33.67	<50	< 0.50	< 0.50	< 0.50	<1.0	56	ND		
	09/18/2008	10.35	33.40	< 50	< 0.50	< 0.50	< 0.50	<1.0	96	TAME=2.2		
	12/02/2008	9.67	34.08	< 50	< 0.50	< 0.50	< 0.50	< 0.50	58	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



Site_ S	t. Fe	AN	cis	PS	)		Projec					
Sampling Pe	ersonnėl_	A	JE	)		:	Date_	12/	2/8	8		
Weather Co	nditions_	SI	M									
Well ID_		0.20	_			(	Casing	Dian	neter (inc	ches) 34	))	
Depth to W	ater (ft)	6.	31	_		I	Total Depth (ft) 20'					
Water Colu	mn (ft) _	13.	19			. (	One W	ell V	olume (g	al)		
3X Well Vo Notes:				_								
One Well V * 0.059 for Field Me	¾ inch v	well, (	).17 f	or 2 inc	h well	l, 0.38 f	ater Co for 3 in	olum ich w	n" by: ell, 0.66	for 4 inch v	vell, 1.50 for 6 inch well	
Activity	inous (	СПСС		iler	Tate	Pum	n	(	Comme	nts		
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Field Par	Field Parameters Time Volume Temp E.C.				7.	D.0	).	pН	ORP	Comments		
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1.30			18	57	1.0	298	0.	FI	8.10	57.5		
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		-										
- 1	21				1		ļ		15			
Sample (				Click	+ 7	VI. J.		C+		Commer	1ts	
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Turbidit	77		,		-	1 2		-				
Sheen	.3	1	/		-							
Floating		/										
Particles												
Precipita												
Sample '	Time	2′.	36	_		Sam	pler'	s Sig	gnatur	Ha	-6-	

Site S	r. Fu	₩Cj	5	)5			Project	Nu	mber.		
Sampling Pe	ersonnel_	A	6				Date	2	2/8	8	
Weather Con											11
Well ID			_	Ţ.		(	Casing	Diar	meter (inc	$_{\rm hes)} 3/1$	1
Depth to Wa	ater (ft)	6.	24	2		ī	otal D	epth	(ft) 26	)'	
Water Colum	mn (ft) _	13.	74			. (	One We	ell V	olume (g	al)	
3X Well Vo			-	1							
Notes: One Well V * 0.059 for	¾ inch v	well, (	0.17 f	or 2 inc	h wel	1, 0.38 f	ater Co for 3 in	olum ch w	m" by: vell, 0.66 :	for 4 inch v	well, 1.50 for 6 inch wel
Field Met	thods (	chec			iate						
Activity	Activity Bailer F						р	.(	Comme	nts	144 (
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Field Par	amete	rs									
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Turbidit	У	-	/-						7		
Sheen		/		-							
Floating									0		
Particles											
Precipita	ate							ri .			
Sample	Time	1:	80	0		Sar	mler'	s St	gnatur	14	1-6-

Site_St	. FRA	r/Vi	3 {	25	- 		Projec	t Nur	nber		**************************************
Sampling Pe	ersonnėl_	A	56	<b>)</b>		]	Date_	121	2 0	8	
Weather Co	nditions_	SUN	)								1)
Well ID	MH-	3	_			C	Casing	Dian	neter (inc	hes) 3/4	
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Water Colu						. (	one W	ell V	olume (g:	al)	
3X Well Vo											
Notes:											
One Well V	olume is	deterr	mine	d by m	ultiply	ing "W	ater Co	olum	n" by:		11 1 50 5 - 6 1 - 1 11
* 0.059 for	¾ inch	well, 0	.17 fc	or 2 inc	h well	, 0.38 f	or 3 in	ich w	ell, 0.66	for 4 inch w	ell, 1.50 for 6 inch well
Field Me	thods (	check	_		iate				-		
Activity			Ba	iler		Pum	р	.(	comme:	A .	Λ
YV16	YVILGE >				X			PARA	21- KN	mp	
											1
1+											
Field Par	ameter	rs				12		151			
Time	Volun	ne 7	Tem	ıp	E.C		D.O	).	pН	ORP	Comments
	Purge	d	(Cel	sius)	(mS	s/cm)	(mg	(L)	3	(mv)	
8:15	Ī	-	18.	45	1.36	35	12.	79	7.92	140.6	
8:30	1		10	63	1.8	99	3.5	2	0 28	153.6	
0			10	42	1.0	10 7.			0		
					1						
Sample (	Observ	ation							-		
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	eristic	1101	ie .	Bugi	11 1	viouei	ate	Sti	ong	Commer	100
Color		/	_			•					
Odor			/					-			
Turbidit	Ty	/	,								
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Floating											
Particles		-									
Precipit	ate										
Sample	Time_	<i>8</i> . J	4			Sam	pler'	s Si	gnature	Ma	, - <u>5</u> -

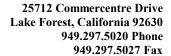
Site St. Francis	PS	Proje	ct Number						
Sampling Personnel	5	Date	12/2/8	B					
Weather Conditions SVN	,								
Well ID MWY		Casin	g Diameter (in	ches) <u>3/</u> V	1)				
Depth to Water (ft) 8.10		Total	Total Depth (ft) $70$						
Water Column (ft) 11.9	$\boxtimes$	One V	Vell Volume (g	gal)					
3X Well Volume (gal)	for 2 inch we	11, 0.38 for 3	Column" by: inch well, 0.66	for 4 inch w	vell, 1.50 for 6 inch well				
	Bailer	Pump	Comme	ents	1000				
fulhe	1	X_	11041	m. P	MAR				
	-	S/cm) (m	0. pH g/L) & 8 8.19 & 8.16	1	Comments				
Sample Observations									
Characteristic None	Slight	Moderate	Strong	Commer	its				
Color			1000						
Odor									
Turbidity	•	1 2							
Sheen									
Floating									
Particles									
Precipitate									
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Site_S	·FR	ANC	15	25		100	Projec	t Nu	mber		**************************************
Sampling Pe	ersonnel_	D	6			:	Date_	12	2 08		
Weather Co:	nditions_	SW								01	))
Well ID	MM-	5	_			.(	Casing	Diar	neter (inc	hes) 3/U	
Depth to Wa	ater (ft) _	9.6	Fg	2		I	Cotal I	epth	(ft) 20	<b>ð</b> ,	
Water Colu	mn (ft) 👤	0.3	3			. (	One W	ell V	olume (ga	al)	
3X Well Vo Notes:	olume (ga	al) _ 7									
One Well V	olume is	deterr	nine	d by mi	ultiply	ing "W	ater C	olum	n" by:	r 4'1	-11 1 50 for 6 inch woll
* 0.059 for Field Met							or 3 II	ich w	ell, 0.66 1	tor 4 mcn w	vell, 1.50 for 6 inch well
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						11.101.1					
UA.									70		
Field Par	ameter	rs									
Time	Volun		Гem	ıp	E.C		D.C	),	pH	ORP	Comments
	Purge	d (	Cel	sius)	(mS	/cm) (mg/		J(L)	1 25	(mv)	
11:25			19	.45	1.1	71	8.8	N	7.98	193.5	
11:38			19	.56	1.2	223 1.		08	8.10	176.5	
							-		1		
c 1.0	21								4.	4	
Sample (				Cli-L	4 7	/T - 3	- 4	C		Commer	145
Characte	eristic	Non	e	Sligh	IT I	Moder	ate	Str	ong	Commer	115
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Odor		/		**		30 TOP		-			
Turbidit Sheen	y	1	-								
Floating					_				-		
Particles											
Precipita							-				
Trecipita	atte							1			
Sample '	Time_	//:	38	•		Sam	pler'	s Si	gnature	14.	-

#### ATTACHMENT B

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







16 December 2008

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 12/06/08 10:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Albert Vargas

Senior Project Coordinator

aller Vargas



Gribi Associates Project: St Francis Pie Shop

1090 Adam Street, Suite KProject Number: [none]Reported:Benicia CA, 94510Project Manager: Jim Gribi12/16/08 17:34

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T801504-01	Water	12/02/08 14:30	12/06/08 10:20
MW-2	T801504-02	Water	12/02/08 13:00	12/06/08 10:20
MW-3	T801504-03	Water	12/02/08 08:30	12/06/08 10:20
MW-4	T801504-04	Water	12/02/08 10:00	12/06/08 10:20
MW-5	T801504-05	Water	12/02/08 11:30	12/06/08 10:20

SunStar Laboratories, Inc.

Allee Wargas



Gribi Associates Project: St Francis Pie Shop

1090 Adam Street, Suite KProject Number: [none]Reported:Benicia CA, 94510Project Manager: Jim Gribi12/16/08 17:34

#### MW-1 T801504-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
	SunStar Laboratories, Inc.											
Volatile O	olatile Organic Compounds by EPA Method 8260B											

Volatile Organic Compounds by EPA Method 8260B												
Benzene	ND	0.50	ug/l	1	8120907	12/09/08	12/12/08	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	88	2.0	"	"	"	"	"	"				
Tert-butyl alcohol	ND	10	"	"	"	"	"	"				
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"				
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"				
Methyl tert-butyl ether	2600	1.0	"	"	"	"	"	"				
C6-C12 (GRO)	840	50	"	"	"	"	"	"				
Surrogate: 4-Bromofluorobenzene		94.3 %	77.1-	110	"	"	"	"				
Surrogate: Dibromofluoromethane		107 %	66.3-	111	"	"	"	"				
Surrogate: Toluene-d8		103 %	84.7-	109	"	"	"	"				

SunStar Laboratories, Inc.

allee Vargas



Gribi Associates Project: St Francis Pie Shop

1090 Adam Street, Suite K Project Number: [none] Reported: Benicia CA, 94510 Project Manager: Jim Gribi 12/16/08 17:34

#### **MW-2** T801504-02 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

		SunStar La	boratori	es, Inc.					
<b>Volatile Organic Compounds by E</b>	PA Method 8260	В							
Benzene	5.6	0.50	ug/l	1	8120907	12/09/08	12/12/08	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	2.0	0.50	"	"	"	"	"	"	
m,p-Xylene	1.6	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	140	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	4900	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	1500	50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.9 %	77.1-	110	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	66.3-	111	"	"	"	"	
Surrogate: Toluene-d8		98.3 %	84.7-	109	"	"	"	"	

SunStar Laboratories, Inc.

Allee Wargas



Gribi Associates Project: St Francis Pie Shop

1090 Adam Street, Suite K Project Number: [none] Reported: Benicia CA, 94510 Project Manager: Jim Gribi 12/16/08 17:34

#### **MW-3** T801504-03 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

SunStar Laboratories, Inc.													
Volatile Organic Compounds by El	PA Method 8260	В											
Benzene	ND	0.50	ug/l	1	8120907	12/09/08	12/12/08	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	"	"	"	"	"	"					
Methyl tert-butyl ether	410	1.0	"	"	"	"	"	"					
C6-C12 (GRO)	130	50	"	"	"	"	"	"					
Surrogate: 4-Bromofluorobenzene		85.6 %	77.1-	77.1-110		"	"	"					
Surrogate: Dibromofluoromethane		104 %	66.3-	111	"	"	"	"					
Surrogate: Toluene-d8		92.3 %	84.7-	84.7-109		"	"	"					

SunStar Laboratories, Inc.

Allee Wargas



Gribi Associates Project: St Francis Pie Shop

1090 Adam Street, Suite KProject Number: [none]Reported:Benicia CA, 94510Project Manager: Jim Gribi12/16/08 17:34

#### MW-4 T801504-04 (Water)

I										
ı			Reporting							
ı	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

SunStar Laboratories, Inc.													
Volatile Organic Compounds by El	PA Method 8260	В											
Benzene	ND	0.50	ug/l	1	8120907	12/09/08	12/12/08	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	"	"	"	"	"	"					
Methyl tert-butyl ether	57	1.0	"	"	"	"	"	"					
C6-C12 (GRO)	ND	50	"	"	"	"	"	"					
Surrogate: 4-Bromofluorobenzene		81.8 %	77.1-	110	"	"	"	"					
Surrogate: Dibromofluoromethane		110 %	66.3-	111	"	"	"	"					
Surrogate: Toluene-d8		99.4 %	84.7-	109	"	"	"	"					

SunStar Laboratories, Inc.

Allee Wargas



Gribi Associates Project: St Francis Pie Shop

1090 Adam Street, Suite KProject Number: [none]Reported:Benicia CA, 94510Project Manager: Jim Gribi12/16/08 17:34

#### MW-5 T801504-05 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

<b>Volatile Organic Compounds by El</b>	PA Method 82601	В							
Benzene	ND	0.50	ug/l	1	8120907	12/09/08	12/12/08	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	"	"	"	"	"	"	
Methyl tert-butyl ether	58	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		77.4 %	77.1-	77.1-110		"	"	"	
Surrogate: Dibromofluoromethane		119 %	66.3-	111	"	"	"	"	S-GC
Surrogate: Toluene-d8		98.6 %	84.7-	109	"	"	"	"	

SunStar Laboratories, Inc.

Allee Wargas



Analyte

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

RPD

Limit

Notes

Gribi Associates Project: St Francis Pie Shop

Result

1090 Adam Street, Suite KProject Number: [none]Reported:Benicia CA, 94510Project Manager: Jim Gribi12/16/08 17:34

Reporting

Limit

0.50

0.50

24.8

23.6

17.8

17.2

16.2

## Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Units

Spike

Level

20.0

20.0

16.0

16.0

16.0

Source

Result

%REC

124

118

111

107

101

75-125

75-125

77.1-110

66.3-111

84.7-109

%REC

Limits

**RPD** 

Blank (8120907-BLK1)				Prepared: 12/0	09/08 Analyze	d: 12/12/08					
Chlorobenzene	ND	1.0	ug/l								
1,1-Dichloroethene	ND	1.0	"								
Trichloroethene	ND	1.0	"								
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	"								
Surrogate: 4-Bromofluorobenzene	11.5		"	16.0	71.8	77.1-110	S-GC				
Surrogate: Dibromofluoromethane	20.3		"	16.0	127	66.3-111	S-GC				
Surrogate: Toluene-d8	16.8		"	16.0	105	84.7-109					
LCS (8120907-BS1)			Prepared: 12/09/08 Analyzed: 12/12/08								
Chlorobenzene	23.8	1.0	ug/l	20.0	119	75-125					
1,1-Dichloroethene	23.9	1.0	"	20.0	119	75-125					
Trichloroethene	24.1	1.0	"	20.0	120	75-125					

SunStar Laboratories, Inc.

Surrogate: 4-Bromofluorobenzene

Surrogate: Dibromofluoromethane

Surrogate: Toluene-d8

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.

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S-GC



Gribi Associates Project: St Francis Pie Shop

1090 Adam Street, Suite KProject Number: [none]Reported:Benicia CA, 94510Project Manager: Jim Gribi12/16/08 17:34

## 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
Batch 8120907 - EPA 5030 GCMS										
LCS Dup (8120907-BSD1)				Prepared:	12/09/08	Analyzed	d: 12/12/08			
Chlorobenzene	19.7	1.0	ug/l	20.0		98.5	75-125	18.6	20	
1,1-Dichloroethene	17.4	1.0	"	20.0		86.8	75-125	31.6	20	QR-02
Trichloroethene	21.0	1.0	"	20.0		105	75-125	13.8	20	
Benzene	20.9	0.50	"	20.0		104	75-125	17.1	20	
Toluene	20.0	0.50	"	20.0		100	75-125	16.5	20	
Surrogate: 4-Bromofluorobenzene	16.5		"	16.0		103	77.1-110			
Surrogate: Dibromofluoromethane	15.9		"	16.0		99.4	66.3-111			
Surrogate: Toluene-d8	15.3		"	16.0		95.4	84.7-109			

SunStar Laboratories, Inc.

Allee Wargas



Gribi Associates Project: St Francis Pie Shop

1090 Adam Street, Suite KProject Number: [none]Reported:Benicia CA, 94510Project Manager: Jim Gribi12/16/08 17:34

#### **Notes and Definitions**

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch

were accepted based on percent recoveries and completeness of QC data.

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

SunStar Laboratories, Inc.

Allen Wargas

### **Chain of Custody Record**

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

Client: GRIBI ASSOCIATE	S				_			Dat	e:	12	2 2	2]	ゟゟ				Pag	e:	Of		
Address: 1090 ADAMS ST	REET, SUITE	K			_			Pro	ect l	Nam	e: S	<u>کا</u> :	FILE	11/0	is (	PiE	Pag SHO	P			
Phone: (707) 748-7743		Fax: (707	7) 748-776	3	_			Coll	ecto	r: F	AC	lon	6	A	Cj.	À.		nt Project #:			,
Project Manager: JAMES G	SRIBI						•	Bate	:h #:	TS	2()	50	<del>y4</del>	<del>,,</del>	7			osal #:			•
	1		1		_			1							,						
Sample ID  MW-)  MW-2  MW-3  MW-4  MW-5	Date Sampled	Time 2:38 1:00 1:00 10:00 10:36	Sample Type	Container Type Von	BTEX/TPH GQS/MTBE (80218/M8015)	TPH as Gas (M8015)	TPH cs Diesel (M8015)	TPH GS MOTOR OII (M8015)	-	XXXX 5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BIEX (8260B)	5 Oxygenates (8260B)	EPA 8260 (Full List)	Halogenated VOCs (8260B)	X	01	Preservative	•	D. TAT		Total # of containing
				$\sim$									1								
Relinquished by: (signature)  Relinquished by: (signature)  Relinquished by: (signature)	Date / Tim  1/488 /.  Date / Tim  12/5 p8  Date / Tim	.4c ne 1130	Received by Received by	(signature)	2/	17	Date	// :/Ti	ne 30 ne			of Ci	Total ustody Seals good	seal	s Y/N ? Y/N		20 20	NV	Notes	, ,	
	08 (070 sposal @ \$2.00 ea		Return to	APY 12		08 Pickup		SC			urn a	aroui	nd tin	ne:		-					