#### RECEIVED

By Alameda County Environmental Health at 3:27 pm, Jan 15, 2014

January 15, 2014

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

Attention: Mark Detterman

Subject: Fourth Quarter 2013 Groundwater Monitoring Report

3800 San Pablo Avenue, Emeryville, California

ACDEH Fuel Leak Case: RO00002520; Global ID: T06019788682

#### Ladies and Gentlemen:

Attached please find a copy of the *Fourth Quarter 2013 Groundwater Monitoring* 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,

William H. Banker, Jr.

San Pablo Avenue Venture c/o Banker, Marks & Kirk 1720 Broadway, Suite 202

William HBanky

Oakland, CA 94612



January 15, 2014

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

Attention: Mark Detterman

Subject: Fourth Quarter 2013 Groundwater Monitoring Report

3800 San Pablo Avenue, Emeryville, California

ACDEH Fuel Leak Case: RO00002520; Global ID: T06019788682

#### Ladies and Gentlemen:

Gribi Associates is pleased to submit this *Fourth Quarter 2013 Groundwater Monitoring Report* on behalf San Pablo Avenue Venture for the property located at 3800 San Pablo Avenue in Emeryville, California (see Figure 1 and Figure 2). This letter report documents the monitoring and sampling of four site wells on December 30, 2013.

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

- 1. Gribi Associates personnel conducted groundwater monitoring and sampling activities for four site wells (MW-1, MW-2, MW-3, MW-4) on December 30, 2013.
- 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 9.81 feet (MW-4) to 14.59 feet (MW-3).
- 2. Groundwater elevations ranged from 24.25 feet above means sea level (msl) (MW-3) to 29.04 feet msl (MW-1).
- 3. Groundwater potentiometric gradient during this monitoring event was to the west at an approximate gradient of 0.1 feet/feet.
- 4. Groundwater elevations and contours are shown on Figure 3.

#### **Laboratory Analytical Results**

- 1. Groundwater samples from the four 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, and Xylenes (BTEX)
  - c. USEPA 8260B Oxygenates (DIPE, ETBE, MTBE, TAME, TBA)
  - d. USEPA 8260B Naphthalene
- 2. Groundwater analytical results are summarized in Table 1 and on Figure 4.
- 3. Groundwater hydrocarbon trends for selected wells are provided as Attachment B.
- 4. The laboratory analytical data report and chain-of custody are provided as Attachment C.

#### SITE REMEDIATION ACTIVITIES

- 1. Gribi Associates installed an ozone remediation system at the site during the week of September 2, 2013.
- 2. The ozone system was started on September 9, 2013.
  - a. The system operated continuously until the mid-October 2013.
  - b. The system required repairs and was re-started on November 7, 2013
  - c. The system has operated continuously since.

#### **CONCLUSIONS**

- 1. Since initiating ozone remediation activities at the site, groundwater analytical results showed significant reductions in groundwater hydrocarbon concentrations at both MW-1, MW-2, and MW-3. MW-4 results are generally similar to pre-startup levels.
  - a. At MW-1 groundwater hydrocarbon concentrations were 4,700 ug/L TPH-G and 62 ug/L benzene, compared to a pre-remediation average of 11,600 ug/L TPH-G and 920 ug/L benzene.
  - b. At MW-2 groundwater hydrocarbon concentrations were 270 ug/L TPH-G and 7.9 ug/L benzene, compared to a pre-remediation average of 12,050 ug/L TPH-G and 870 ug/L benzene.



Alameda County Department of Environmental Health January 15, 2014 Page 3

- c. At MW-3 groundwater hydrocarbon concentrations were 380 ug/L TPH-G and 8.3 ug/L benzene, compared to a pre-remediation average of 13,250 ug/L TPH-G and 1,650 ug/L benzene.
- d. At MW-4 groundwater hydrocarbon concentrations were 7,600 ug/L TPH-G and 50 ug/L benzene, compared to a pre-remediation average of 7,950 ug/L TPH-G and 98 ug/L benzene.
- e. Toluene, ethylbenzene, and xylenes also showed reduction from previous events in wells MW-1, MW-2 and MW-3.
- 2. Groundwater samples from the four wells showed low levels of naphthalene, ranging from 13 to 37 ug/L.

#### PLANNED ACTIVITIES

- 1. Gribi Associates plans to conduct a quarterly groundwater monitoring and sampling event during the first quarter of 2014.
- 2. Gribi Associates will continue to operate the ozone remediation system at the site.

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,

Matthew A. Rosman Project Engineer

James E. Gribi Professional Geologist California No. 5843

Enclosure

c: Mrs. Elaine Kirk, San Pablo Avenue Venture



#### **TABLE**



Table 1 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Former Maz Glass UST Site

					1 omici ivia	Z Glass UST S Concent	tration, micro	grams per lii	ter (ug/L)		
Well ID	Sample Date	GW Depth	GW Elev.	ТРН-G	В	T	E	X	OXY	Cr6 / Br	Naphth
MW-1	05/18/12	8.42	30.54	17,000	1,300	29	770	260	All ND	-	-
<38.96>	09/13/12	10.55	28.41	13,000	630	10	780	86.7	All ND	_	-
	11/09/12	9.72	29.24	15,000	1,200	21	1,100	283	All ND	_	_
	02/20/13	8.34	30.62	9,800	970	15	860	171.5	All ND	-	75
	06/04/13	9.39	29.57	8,600	880	15	770	121.2	All ND	_	74
	Ozone Injecti	ion Started	l on Septen	ber 9, 2013							
	09/26/13	10.38	28.58	16,000	220	8.9	610	152.4	All ND	<0.20 / <b>0.091</b>	120
	12/30/13	9.92	29.04	4,700	62	1.5	110	62.75	All ND	-	23
MW-2	05/18/12	8.78	30.18	10,000	610	26	340	69	All ND	_	-
<38.96>	09/13/12	10.64	28.32	11,000	990	27	460	42.9	All ND	_	-
	11/09/12	9.57	29.39	17,000	750	19	280	64.9	All ND	_	_
	02/20/13	8.86	30.10	8,200	860	29	410	70	All ND	_	29
	06/04/13	9.86	29.10	12,000	870	23	410	43.8	All ND	-	46
	Ozone Injecti	ion Started	l on Septen	ber 9, 2013							
	09/26/13	13.32	25.64	930	39	5.6	26	20	All ND	1.1 / 0.090	13
	12/30/13	10.33	28.63	270	7.9	< 0.50	2.9	<1.0	TBA=20	_	<1.0
MW-3	05/18/12	8.61	30.23	13,000	1,400	36	350	378	All ND	_	-
<38.84>	09/13/12	10.30	28.54	12,000	1,800	25	680	565.5	All ND	-	_
	11/09/12	9.25	29.59	17,000	2,000	32	540	318.6	All ND	_	-
	02/20/13	8.80	30.04	12,000	1,400	15	330	43.9	All ND	_	8.4
	06/04/13	9.49	29.35	12,000	1,400	11	89	32.4	All ND	_	13
	Ozone Injecti	ion Started	l on Septen	ber 9, 2013							
	09/26/13	10.89	27.95	5,500	190	2.8	42	27	All ND	<0.20 / <b>0.096</b>	18
	12/30/13	14.59	24.25	380	8.3	< 0.50	2.3	1.6	All ND	-	<1.0
MW-4	05/18/12	8.28	30.20	10,000	82	32	330	278	All ND	_	_
<38.48>	09/13/12	8.80	29.68	10,000	110	24	270	178.1	All ND	_	_
	11/09/12	8.06	30.42	11,000	110	13	170	124.4	All ND	-	-
	02/20/13	8.16	30.32	4,500	100	9.5	190	65.3	All ND	_	7.1

## Table 1 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Former Maz Glass UST Site

***	G 1	CIV.	CHI			Concent	ration, micro	ograms per lit	er (ug/L)		
Well ID	Sample Date	GW Depth	GW Elev.	ТРН-G	В	T	E	X	OXY	Cr6 / Br	Naphth
	06/04/13	8.73	29.75	6,300	72	6.2	61	48.4	All ND	-	12
	Ozone Inject	ion Started	d on Septen	nber 9, 2013							
	09/26/13	9.76	28.72	12,000	48	3.7	70	18.2	All ND	<0.20 / <b>0.056</b>	13
	12/30/13	9.81	28.67	7,600	50	6.6	68	104.3	All ND	_	37

#### TABLE NOTES

GW Elev = Groundwater mean sea level elevation TPH-G = Total Petroleum Hydrocarbons as gasoline

B = Benzene,

T = Toluene

E = Ethylbenzene

X = Xylenes

OXY = Oxygenates, including MTBE = Methyl-t-Butyl Ether, ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME). Cr6 / Br = Hexavalent Chromium / Bromate

Naphth = Naphthalene.

<38.96> = Top of casing mean sea level elevation (Virgil Chavez Land Survey).

All ND = No detectable concentrations of all analytes.

- = Not analyzed for this analyte.

<1.0 = Not detected above the expressed value.

#### **FIGURES**





DESIGNED BY: CHECKED BY: JG

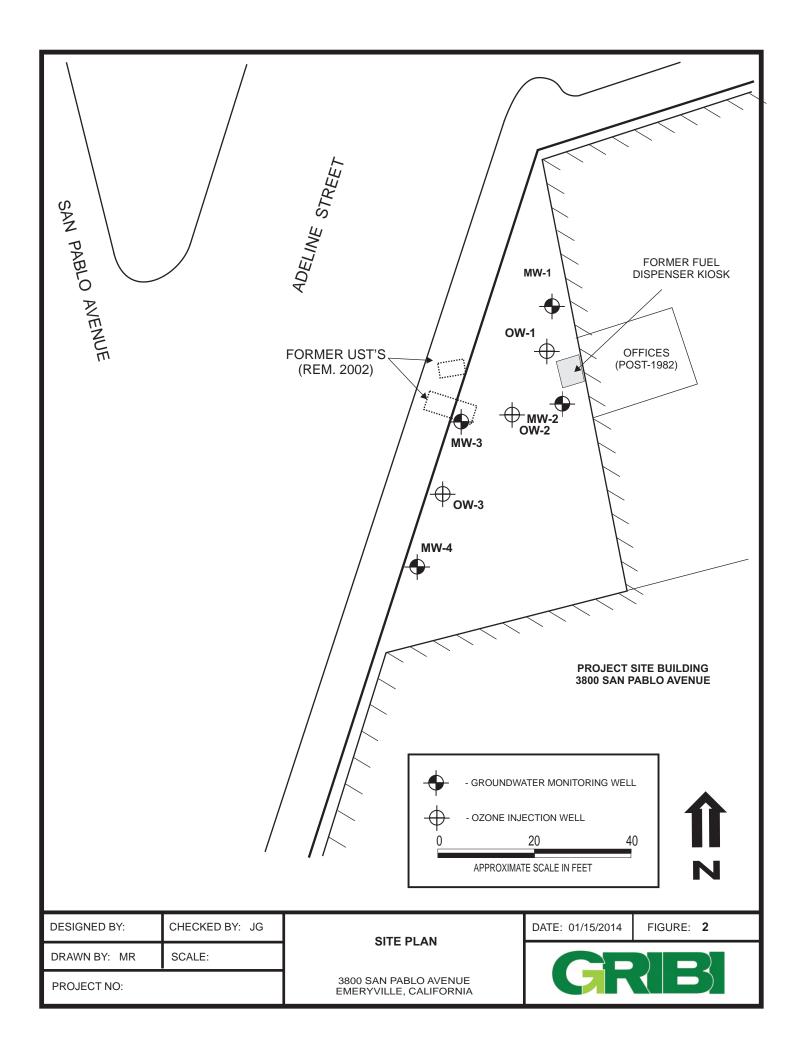
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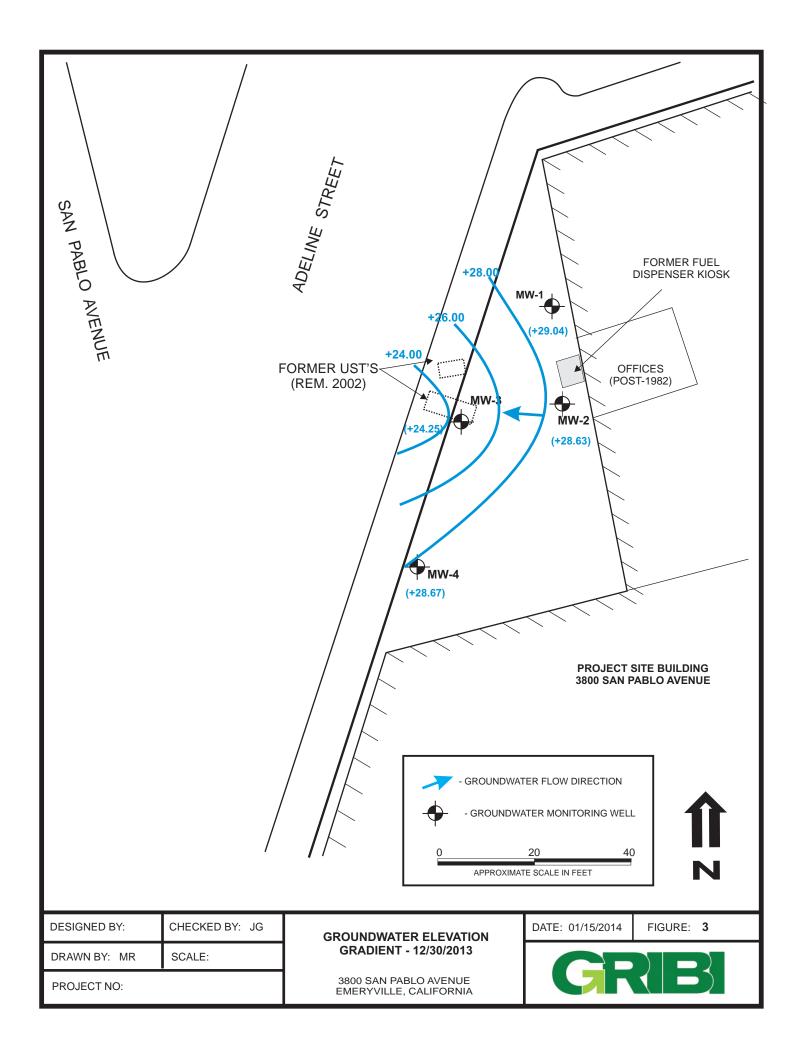
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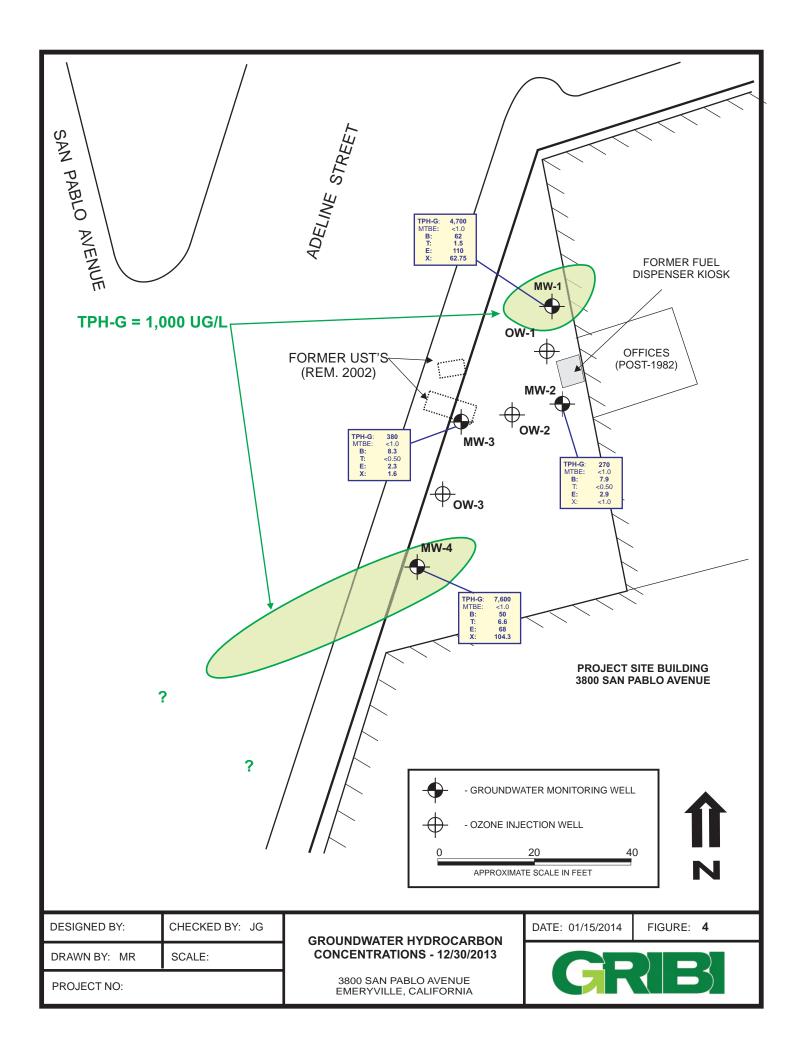
SITE VICINITY MAP

3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA









### ATTACHMENT A

# GROUNDWATER MONITORING FIELD DATA RECORDS



# Groundwater Gauging Field Sheet

M. Resmon Weather Conditions Field Personnel Client Name

SAN PABLO AVENUE VENTURE

Project Name MAZ GLASS

Date 12/30/2013

Well Box Conditions									
Total Well Depth (feet)	22.7	22.8	22.8	22.8					
Groundwater Elevation (msl)	40.62	28.63	52.42	28.83					
Casing Elevation (msl)	38.96	38.96	38.84	38.48					
Depth to Groundwater (feet)	26.6	10.33	14.59	9.81					
Depth to Free Product (feet)									
иен ID	MW-1	MW-2	MW-3	4-WM					

#### **Groundwater Monitoring Field Sheet**

		TURE					MAZ GLA	
Sampling I	Personnel	n	MAK	-		Date	12/30	/2013
Weather Co	onditions .	PC	, co	il				
Well ID	MW-1							
	meter (inche					Depth (feet)	22.7	
Depth to W	ater	7.9	2		Depth	to Free Produ	ict	-
	ımn (ft)					ct Thickness	9	3
One Well V	/olume (gal)		2.17	Z	3x We	ll Volume (ga	al) 6.5	
	r 3/4-inch w			plying "Wate nch well, 0.3			4-inch well, 1	.50 for 6-inch well
Activ	ity	Be	ailer	1	Pump	1	Comme	CONTRACTOR
Purge Meth	od			/	۲.	120	purg ,	purp
	ALC: J				<b>/</b>	120	Musica.	Nema
Sample Me	thod						pay 1	21.10
Sample Me IELD PAR	AMETERS	,					pay	
		Ter	mp. or C)	E.C. (µS/cm)	D.O. (mg/L)	рН	ORP (mV)	Comments
IELD PAR	AMETERS Volume	Ter				1	ORP	
Time	NAMETERS  Volume Purged	Ter (F a	or C)	(µS/cm)		рН 7.38	ORP	
Time	Volume Purged	Ter (F a	or C)	(µS/cm)		рН	ORP	Comments
Time	NAMETERS  Volume Purged	Ter (F a	or C)	(µS/cm)		рН 7.38	ORP	
IELD PAR	Volume Purged	Ter (F a	or C)	(µS/cm)		рН 7.38	ORP	Comments
Time  1440 1448 1446 1446 AMPLE O	Volume Purged  Z  4  5  F  BSERVATI	Ter (F a	or C)	(µS/cm) 916 940	(mg/L)	рН 7.38	ORP	Comments
IELD PAR Time 1440 1448	Volume Purged  Z  4  5  F  BSERVATI	Ter (F a	Sligh	(µS/cm) 916 940	(mg/L)	7.38 7.04	ORP (mV)	Comments
Time  TYYO  YYYB  AMPLE O  Characteric	Volume Purged  Z  4  5  F  BSERVATI	19 19 19 10NS	Sligh	(µS/cm) 916 940	(mg/L)	7.38 7.04	ORP (mV)	Comments  Dy e^5-8
Time  IYYO  IYYB  AMPLE O  Characteric  Color	Volume Purged  Z  4  5  F  BSERVATI	19 19 19 10NS	Sligh	(µS/cm) 916 940	(mg/L)	7.38 7.04	ORP (mV)	Comments  Dy e^5-8
Time  TYYO  YYYB  AMPLE O  Characteric	Volume Purged  Z  4  5  F  BSERVATI	19 19 19 10NS	Sligh	(µS/cm) 916 940	(mg/L)	7.38 7.04	ORP (mV)	Comments  Dy e^5-8

#### **Groundwater Monitoring Field Sheet**

Client Nar		NTURE				roject Name					
Sampling . Weather C	Conditions	PC	1 GOL	۷		Date	14/30	12013			
Well ID	MW-2										
	-				m						
	ameter (incl	_		_		epth (feet)	22.8				
			33		Depth to	o Free Produc	1	_			
			2.47		Product Thickness						
One Well	Volume (ga	1)	212		3x Well Volume (gal) 6 ry						
FIELD ME		Bailer		Pum	p		Comments				
Purge Met	hod			X		151	purga				
Sample Me	ethod			1		121	Durge	pump			
FIELD PAI	RAMETER	es						,			
Time	Volume		mp.		D.O.	рН	ORP	Comment			
Time	Purged	(F	or C)	(S/cm) (	mg/L)		(mV)				
1325	Purged	(F	or C)	(S/cm) (	mg/L)		(mV)				
1325	- 2	19	.3 /.	07	mg/L)	7.04	(mV)				
1325 1327 1331	- 2	19	.3 1.	07	mg/L)	6.96	(mV)				
1325	- 2 4 6	19	.3 1.	07	mg/L)			.151			
1325 1327 1331	- 2	19	.3 1.	07	mg/L)	6.96		V.Slow p			
1325 1327 1331 1834	- 2 4 6 7	19	.3 1.	07	mg/L)	6.96		V. Slow p Colbet so			
1325 1327 1331 1834	2 Y 6 7 OBSERVA	19	.3 /.5 /. .4 /	07	Stron	6.96		V.Slow p Collect So			
/325 /327 /33/ /834	2 Y 6 7 OBSERVA	19 19 19	·3 /· ·5 /·	07		6.96 7.14					
/325 /327 /33 / /334 SAMPLE O Character Color	2 Y 6 7 OBSERVA	19 19 19	3 /. 3 /. 5 /. 5 /. 5 /. 5 /. 5 /. 5 /.	07		6.96 7.14	Com				
/325 /327 /337 /334 SAMPLE O Character Color Odor Turbidity	2 Y 6 7 OBSERVA	19 19 19	3 /- 3 /- 5 /- 5 /- 5 /- 5 /- 5 /- 5 /-	07		6.96 7.14	Com				
/325 /327 /33 / /334 SAMPLE O Character Color	2 Y 6 7 OBSERVA	19 19 19	3 /. 3 /. 5 /. 5 /. 5 /. 5 /. 5 /. 5 /.	07		6.96 7.14	Com	V. Slow p Collect So ments			

#### **Groundwater Monitoring Field Sheet**

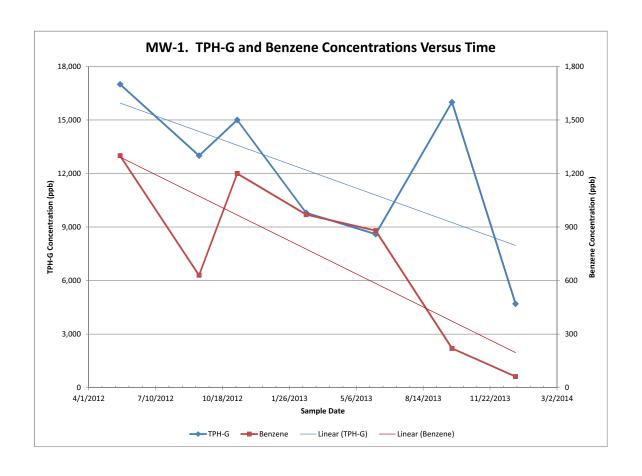
Client Nar		NTURE		077		P		MAZ GLA	
Sampling	Personnel	N	241	-	_		Date	12/30	/2013
Weather C	Personnel Conditions	_ P	Crc	012	_				
Well ID	MW-3								
Casing Dia	ameter (inch	ies) 2	.0			Total D	epth (feet)	22.8	
Depth to V	Vater	14.5	59			Depth to	o Free Produc		
	umn (ft)					Product	Thickness	\$	
One Well	Volume (gal	b /	,40		_	3x Well	Volume (gal		2
ELD ME	vity	В	ailer		Pump			Comme	nts
Purge Met	hod				X		150	surge	рчтр
_							1- /		, ,
Sample Me	ethod						120	purge	punp
bont law	RAMETER	s					120	purge	punp
bont law	Market and	Te	mp. or C)	E.C. (μS/cm)	11/1/11	0. <i>O</i> .	12 <i>U</i>	ORP (mV)	Comments
IELD PAI	RAMETER Volume	Te			11/1/11	2000		ORP	Dunp
ELD PAI	RAMETER  Volume Purged	Te. (F.	or C)	(µS/cm)	(m	2000		ORP	Dunp
ELD PAI	RAMETER Volume Purged	19 19	.6 .8	(µS/cm)  932  915	(m	2000	PH 7.37 7.36	ORP	Dunp
Time	RAMETER  Volume Purged	19 19 19	.6 .8	(µS/cm)  932  915  910	(m	2000	PH 7.37 7.36 7.35	ORP	Dunp
Time 349 350 352	RAMETER Volume Purged	19 19	.6 .8	(µS/cm)  932  915	(m	2000	PH 7.37 7.36	ORP	Dunp
1349 350 357 357 357	RAMETER Volume Purged	19 19 19	.6 .8	(µS/cm)  932  915  910	(m	2000	PH 7.37 7.36 7.35	ORP	Dunp
1349 350 357 357 357	RAMETER Volume Purged  (	19 19 19	.6 .8	932 915 910 937	(m	20000	7.37 7.36 7.35 7.32	ORP	Comments
349 350 357 357 357 357 MPLE O	RAMETER Volume Purged  (	19 19 19 19	.6 .8 .9	932 915 910 937	(m	ng/L)	7.37 7.36 7.35 7.32	ORP (mV)	Comments
Time  349 350 357 357 357 AMPLE O	RAMETER Volume Purged  (	19 19 19 19 19 19	.6 .8 .9	(µS/cm)  932  915  910  937	(m	ng/L)	7.37 7.36 7.35 7.32	ORP (mV)	Comments
349 350 357 357 357	RAMETER Volume Purged  (	19   19   19   19   19   19   19   19	.6 .8 .9 .9 Sligh	(µS/cm)  932  915  910  937	(m	ng/L)	7.37 7.36 7.35 7.32	ORP (mV)	Comments
Time  349 350 357 357 355  AMPLE O Character Color	RAMETER Volume Purged  (	19   19   19   19   19   19   19   19	.6 .8 .9 .9 Sligh	(µS/cm)  932  915  910  937	(m	ng/L)	7.37 7.36 7.35 7.32	ORP (mV)	Comments

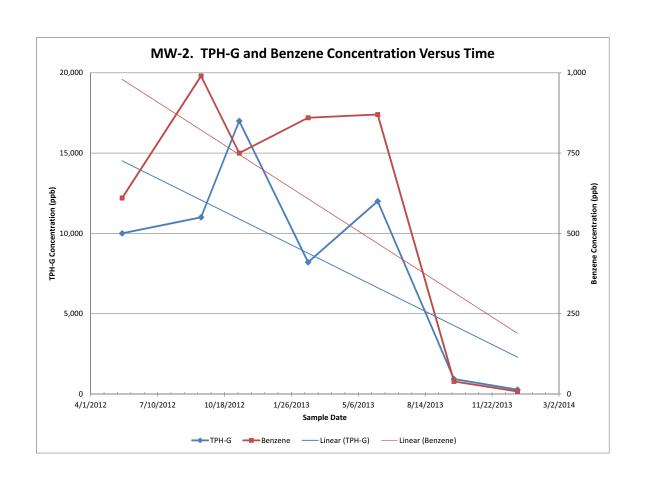
#### **Groundwater Monitoring Field Sheet**

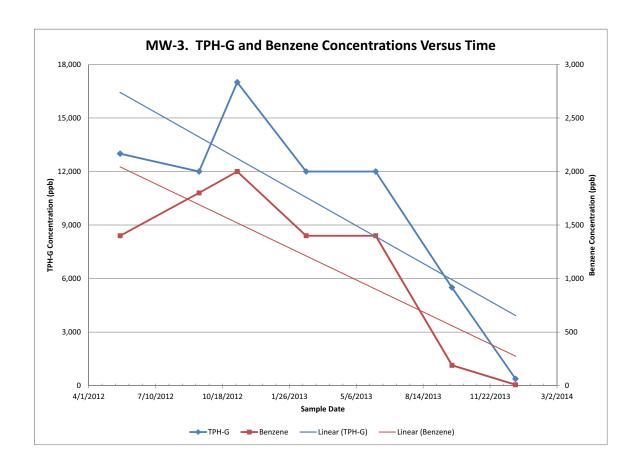
Client Nam		PABLO TURE	AVENUE		Projec	t Name	MAZ GLAS	s
Sampling I	Personnel	MV	20			Date	12/30	12013
Weather Co	onditions	PC	, col	4			,	
Well ID	MW-4							
	meter (inch	1			Total Depth	(feet)	22.8	
Depth to W	/ater	9.81			Depth to Fre	ee Produc	-	>
Water Colu	ımn (ft)	12.	99		Product Thi	ckness	\$	
Water Colu	olume (gal	) 2	.21		3x Well Vol	lume (gal)		6
	r 3/4-inch v			ng "Water Coli well, 0.38 for 1		0.66 for 4	-inch well, 1.5	60 for 6-inch we
Activ	ity	Bai	iler	Pump			Commen	ts
Purge Meth	nod			X	/	20	surge p	ump
Sample Me	thod			X	/		purg p	
TELD PAR	AMETER	S						
Time	Volume Purged	Tem (F or			).O. ng/L)	рН	ORP (mV)	Comments
1411					1		/	
1414	2	18.	7 1.	05	1 6	.72		
1418	4	18.	/	06		72		
1541	6	18	-	06 1		63		
145 2	7	18	.8/	07	6.	67		
165	DCEDVAT	TONS						
AMPLE O	DSERVAL		Slight	Moderate	Strong		Comm	nents
AMPLE O		one						
		lone	X			91	uy	
Character Color		lone				91 Hc	uy	
Character Color Odor		ione	X			91 Hc	rey	
Color		ione	X			91 Hc	44	

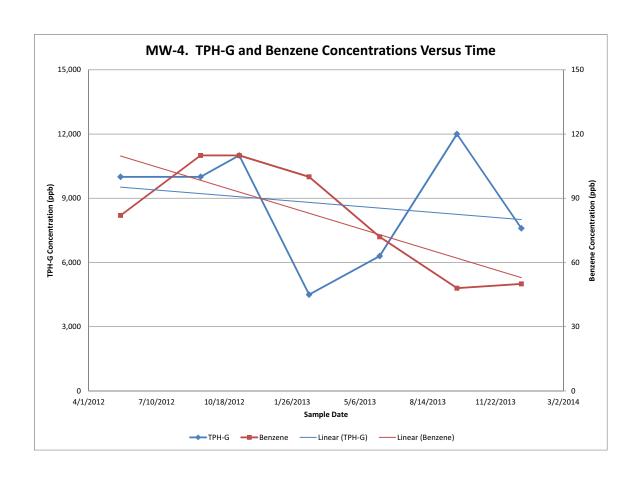
# ATTACHMENT B GROUNDWATER HYDROCARBON TRENDS











#### ATTACHMENT C

# LABORATORY DATA REPORTS AND CHAIN-OF-CUSTODY RECORDS





10 January 2014

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

RE: Maz Glass

Enclosed are the results of analyses for samples received by the laboratory on 01/03/14 08:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine Running Crane

Katherine RunningCrane Project Manager



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

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	01/10/14 16:30

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T140009-01	Water	12/30/13 15:00	01/03/14 08:45
MW-2	T140009-02	Water	12/30/13 13:40	01/03/14 08:45
MW-3	T140009-03	Water	12/30/13 14:00	01/03/14 08:45
MW-4	T140009-04	Water	12/30/13 14:25	01/03/14 08:45

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.

Katherine Running Crane

Katherine RunningCrane, Project Manager

Page 1 of 8



Gribi Associates Project: Maz Glass 1090 Adam Street, Suite K Project Number: [none] Reported: Benicia CA, 94510 Project Manager: Jim Gribi 01/10/14 16:30

#### MW-1 T140009-01 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

Volatile Organic Compounds by E	PA Method 8260B								
Naphthalene	23	1.0	ug/l	1	4010823	01/03/14	01/08/14	EPA 8260B	
Benzene	62	0.50	"	"				"	
Toluene	1.5	0.50	"	"				"	
Ethylbenzene	110	0.50	"	"				"	
m,p-Xylene	62	1.0	"	"				"	
o-Xylene	0.75	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)	4700	50	"	"				"	
Surrogate: Toluene-d8		102 %	88.8-	117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	83.5-	119	"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	81 1-	136	"	"	"	"	

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Katherine Running Crame

Katherine RunningCrane, Project Manager

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

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	01/10/14 16:30

#### MW-2 T140009-02 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

Naphthalene	ND	1.0	ug/l	1	4010823	01/03/14	01/08/14	EPA 8260E
Benzene	7.9	0.50	"		"	"	"	"
Toluene	ND	0.50	"		"	"	"	"
Ethylbenzene	2.9	0.50	"		"	"	"	"
m,p-Xylene	ND	1.0	"		"	"	"	"
o-Xylene	ND	0.50	"		"	"	"	"
Tert-amyl methyl ether	ND	2.0	"		"	"	"	"
Tert-butyl alcohol	20	10	"		"	"	"	"
Di-isopropyl ether	ND	2.0	"		"		"	"
Ethyl tert-butyl ether	ND	2.0	"		"	"	"	"
Methyl tert-butyl ether	ND	1.0	"		"	"	"	"
C6-C12 (GRO)	270	50	"			"	"	"
Surrogate: Toluene-d8		99.0 %	88.8-	117	"	"	"	"
Surrogate: 4-Bromofluorobenzene		107 %	83.5-	119	"	"	"	"
Surrogate: Dibromofluoromethane		108 %	81.1-	136	"	"	"	"

SunStar Laboratories, Inc.

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Katherine Running Crane

Katherine RunningCrane, Project Manager

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Gribi Associates Project: Maz Glass 1090 Adam Street, Suite K Project Number: [none] Reported: Benicia CA, 94510 Project Manager: Jim Gribi 01/10/14 16:30

#### MW-3 T140009-03 (Water)

		Reporting							
Analyt	e Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

Volatile Organic Compounds by El	PA Method 8260B								
Naphthalene	ND	1.0	ug/l	1	4010823	01/03/14	01/08/14	EPA 8260B	
Benzene	8.3	0.50	"	"				"	
Toluene	ND	0.50	"	"			"		
Ethylbenzene	2.3	0.50	"	"			"	"	
m,p-Xylene	1.6	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)	380	50	"	"			"	"	
Surrogate: Toluene-d8		102 %	88.8-	117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	83.5-	119	"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	81.1-	136	"	"	"	"	

SunStar Laboratories, Inc.

Katherine Running Crame

Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	01/10/14 16:30

#### MW-4 T140009-04 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

Naphthalene	37	1.0	ug/l	1	4010823	01/03/14	01/08/14	EPA 8260B	
Benzene	50	0.50	"		"	"	"	"	
Toluene	6.6	0.50	"		"	"	"	"	
Ethylbenzene	68	0.50	"		"	"	"	"	
m,p-Xylene	97	1.0	"		"	"	"	"	
o-Xylene	7.3	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)	7600	50	"		"		"	"	I
Surrogate: Toluene-d8		101 %	88.8-	117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	83.5-	119	"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	81.1-	136	"	"	"	"	

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Gribi Associates Project: Maz Glass 1090 Adam Street, Suite K Project Number: [none] Benicia CA, 94510 Project Manager: Jim Gribi

Reported: 01/10/14 16:30

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch 4010823 - EPA 5030 GCMS

Blank (4010823-BLK1)				Prepared:	01/03/14	Analyze	d: 01/08/14	
Naphthalene	ND	1.0	ug/l					
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: Toluene-d8	8.34		"	8.00		104	88.8-117	
Surrogate: 4-Bromofluorobenzene	7.65		"	8.00		95.6	83.5-119	
Surrogate: Dibromofluoromethane	9.06		"	8.00		113	81.1-136	
LCS (4010823-BS1)				Prepared:	01/03/14	Analyze	d: 01/08/14	
Chlorobenzene	20.6	1.0	ug/l	20.0		103	75-125	
1,1-Dichloroethene	18.3	1.0	"	20.0		91.3	75-125	
Trichloroethene	19.3	1.0	"	20.0		96.6	75-125	
Benzene	19.3	0.50	"	20.0		96.3	75-125	
Toluene	19.8	0.50	"	20.0		98.8	75-125	
Surrogate: Toluene-d8	8.12		"	8.00		102	88.8-117	
Surrogate: 4-Bromofluorobenzene	8.79		"	8.00		110	83.5-119	
Surrogate: Dibromofluoromethane	8.00		"	8.00		100	81.1-136	
Matrix Spike (4010823-MS1)	Sour	ce: T14000	9-01	Prepared:	01/03/14	Analyze	d: 01/08/14	
Chlorobenzene	22.2	1.0	ug/l	20.0	ND	111	75-125	
1,1-Dichloroethene	22.6	1.0	"	20.0	ND	113	75-125	
Trichloroethene	21.7	1.0	"	20.0	ND	108	75-125	
Benzene	101	0.50	"	20.0	61.8	194	75-125	QM-0
Toluene	27.6	0.50	"	20.0	1.51	130	75-125	QM-0
Surrogate: Toluene-d8	8.77		"	8.00		110	88.8-117	
Surrogate: 4-Bromofluorobenzene	8.76		"	8.00		110	83.5-119	
Surrogate: Dibromofluoromethane	9.53		"	8.00		119	81.1-136	

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Gribi Associates Project: Maz Glass 1090 Adam Street, Suite K Project Number: [none] Reported: Benicia CA, 94510 Project Manager: Jim Gribi 01/10/14 16:30

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Matrix Spike Dup (4010823-MSD1)	Sour	Prepared:	01/03/14	Analyze	d: 01/08/14					
Chlorobenzene	19.8	1.0	ug/l	20.0	ND	99.0	75-125	11.6	20	
1,1-Dichloroethene	18.4	1.0	"	20.0	ND	92.2	75-125	20.2	20	QR-02
Trichloroethene	17.5	1.0		20.0	ND	87.4	75-125	21.5	20	QR-02
Benzene	63.1	0.50		20.0	61.8	6.45	75-125	45.8	20	QM-07
Toluene	21.4	0.50		20.0	1.51	99.6	75-125	25.0	20	QM-07
Surrogate: Toluene-d8	8.02		"	8.00		100	88.8-117			
Surrogate: 4-Bromofluorobenzene	8.63		"	8.00		108	83.5-119			
Surrogate: Dibromofluoromethane	8.74		"	8.00		109	81.1-136			

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Katherine RunningCrane, Project Manager

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Gribi Associates Project: Maz Glass 1090 Adam Street, Suite K Project Number: [none] Reported: Benicia CA, 94510 Project Manager: Jim Gribi 01/10/14 16:30

#### **Notes and Definitions**

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 OC data.

QM-07	The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD.	The batch was accepted based on acceptable
	LCS recovery	

The concentration indicated for this analyte is above the calibration range of the instrument. This value should be considered as a
estimate as the actual value may be higher.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Е

Sample results reported on a dry weight basis

RPD Relative Percent Difference

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																		LOCATION/ Field Point Name		e: M	z Glass	Pablo Avent	-7743	Benicia, CA 94510	1090 Adams Street, Suite K	Associates	Gribi	Website: www.SUNSI ARLABS.com Email: joni@sunsuarians.com Telephone: (949) 297-5020 Fax: (949) 297-50	25	SUNSTAR LABORATORIES
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Page 1 of \_\_\_\_

#### SAMPLE RECEIVING REVIEW SHEET

BATCH #	
Client Name: Grass Pro	oject: Maz Gunss
•	ate/Time Received: 1.3.14 / 8.45
Delivered by: ☐ Client ☐ SunStar Courier ☑ GSO [	FedEx Other
Total number of coolers received/_ Temp crite	teria = 6°C > 0°C (no <u>frozen</u> containers)
Temperature: cooler #1 $2.2$ °C +/- the CF (-0.2°C) = $2.0$	o_°C corrected temperature
cooler #2°C +/- the CF (- 0.2°C) =	°C corrected temperature
cooler #3°C +/- the CF (- 0.2°C) =	°C corrected temperature
Samples outside temp. but received on ice, w/in 6 hours of final	sampling. Yes No* No*
Custody Seals Intact on Cooler/Sample	⊠Yes □No* □N/A
Sample Containers Intact	∭Yes □No*
Sample labels match COC ID's	∑Yes □No*
Total number of containers received match COC	∑Yes □No*
Proper containers received for analyses requested on COC	⊠Yes □No*
Proper preservative indicated on COC/containers for analyses re-	equested Yes No* N/A
Complete shipment received in good condition with correct tempreservatives and within method specified holding times. $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	
* Complete Non-Conformance Receiving Sheet if checked Cool	oler/Sample Review - Initials and date 52 1-3-14
Comments:	

J			