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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

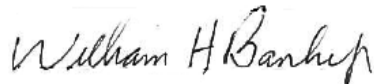
Attention: Mark Detterman

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
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.

- 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

Well ID	Sample Date	GW Depth	GW Elev.	Concentration, micrograms per liter (ug/L)							
				TPH-G	B	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 Injection Started on September 9, 2013											
	09/26/13	10.38	28.58	16,000	220	8.9	610	152.4	All ND	<0.20 / 0.091	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 Injection Started on September 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 Injection Started on September 9, 2013											
	09/26/13	10.89	27.95	5,500	190	2.8	42	27	All ND	<0.20 / 0.096	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

Well ID	Sample Date	GW Depth	GW Elev.	Concentration, micrograms per liter (ug/L)							
				TPH-G	B	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 Injection Started on September 9, 2013											
	09/26/13	9.76	28.72	12,000	48	3.7	70	18.2	All ND	<0.20 / 0.056	13
	12/30/13	9.81	28.67	7,600	50	6.6	68	104.3	All ND	–	37

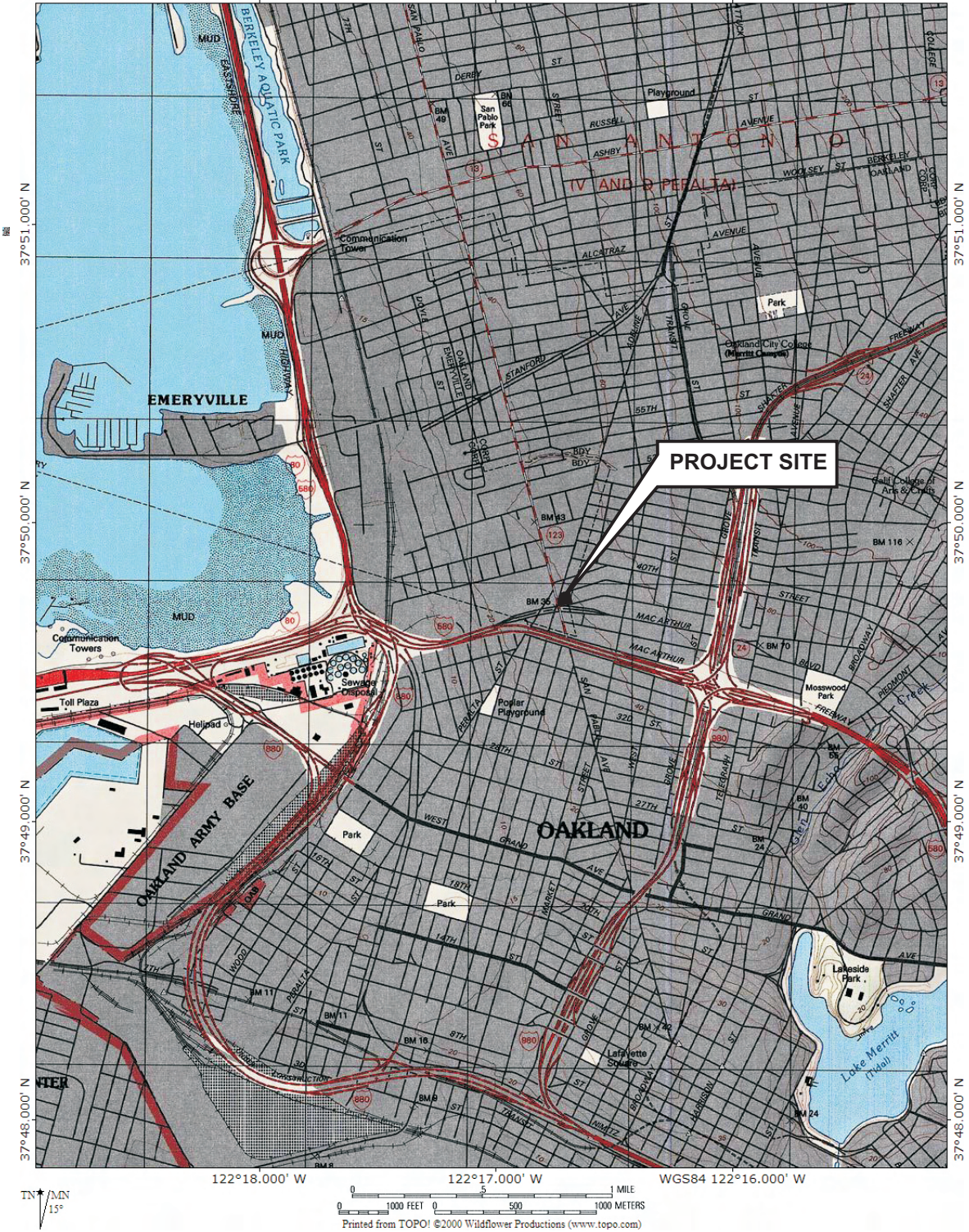
TABLE NOTES

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

TOPO! map printed on 04/03/07 from "California.tpo" and "Untitled.tpg"
 122°18.000' W 122°17.000' W WGS84 122°16.000' W



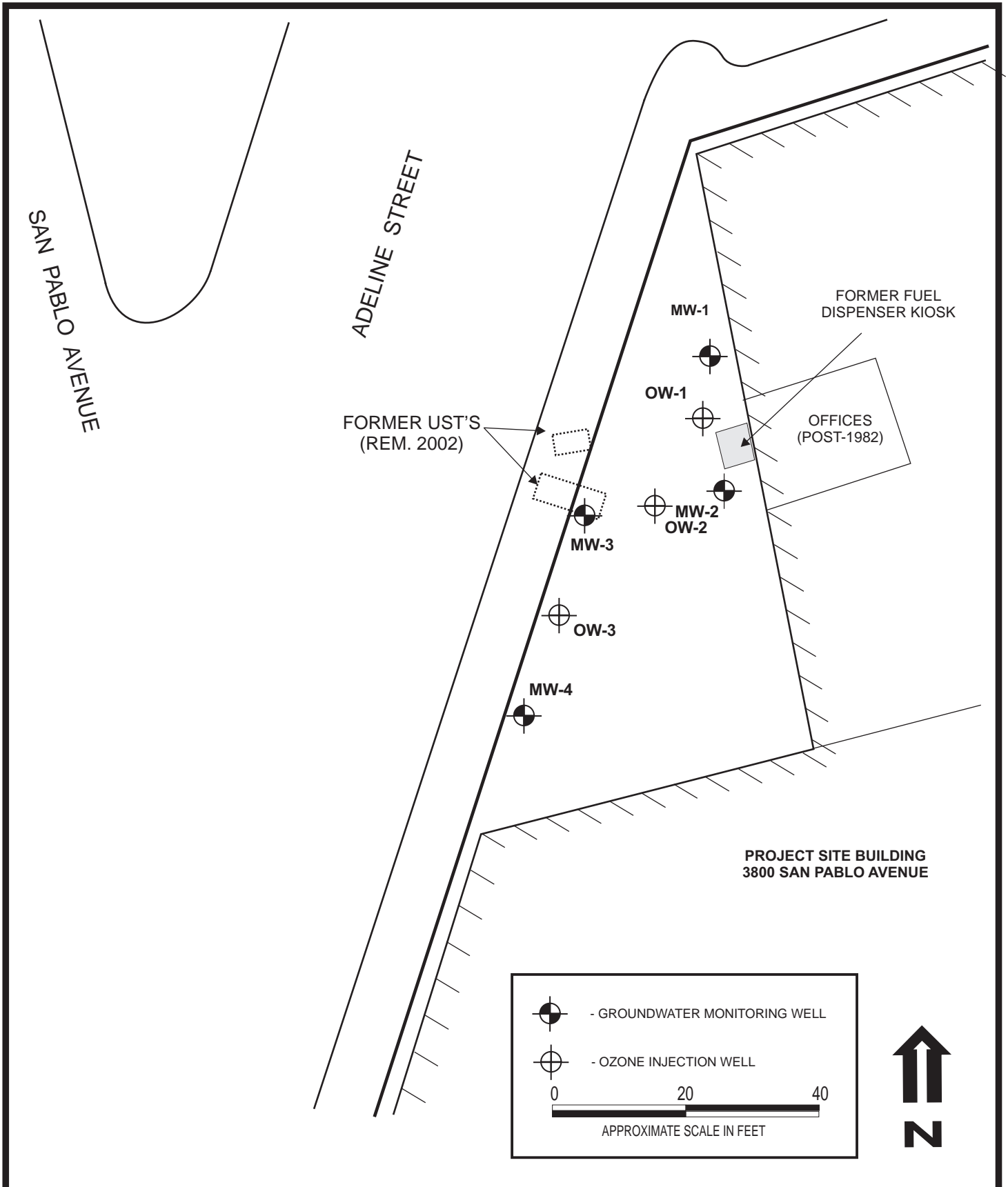
DESIGNED BY:	CHECKED BY: JG
DRAWN BY: MR	SCALE:
PROJECT NO:	

SITE VICINITY MAP

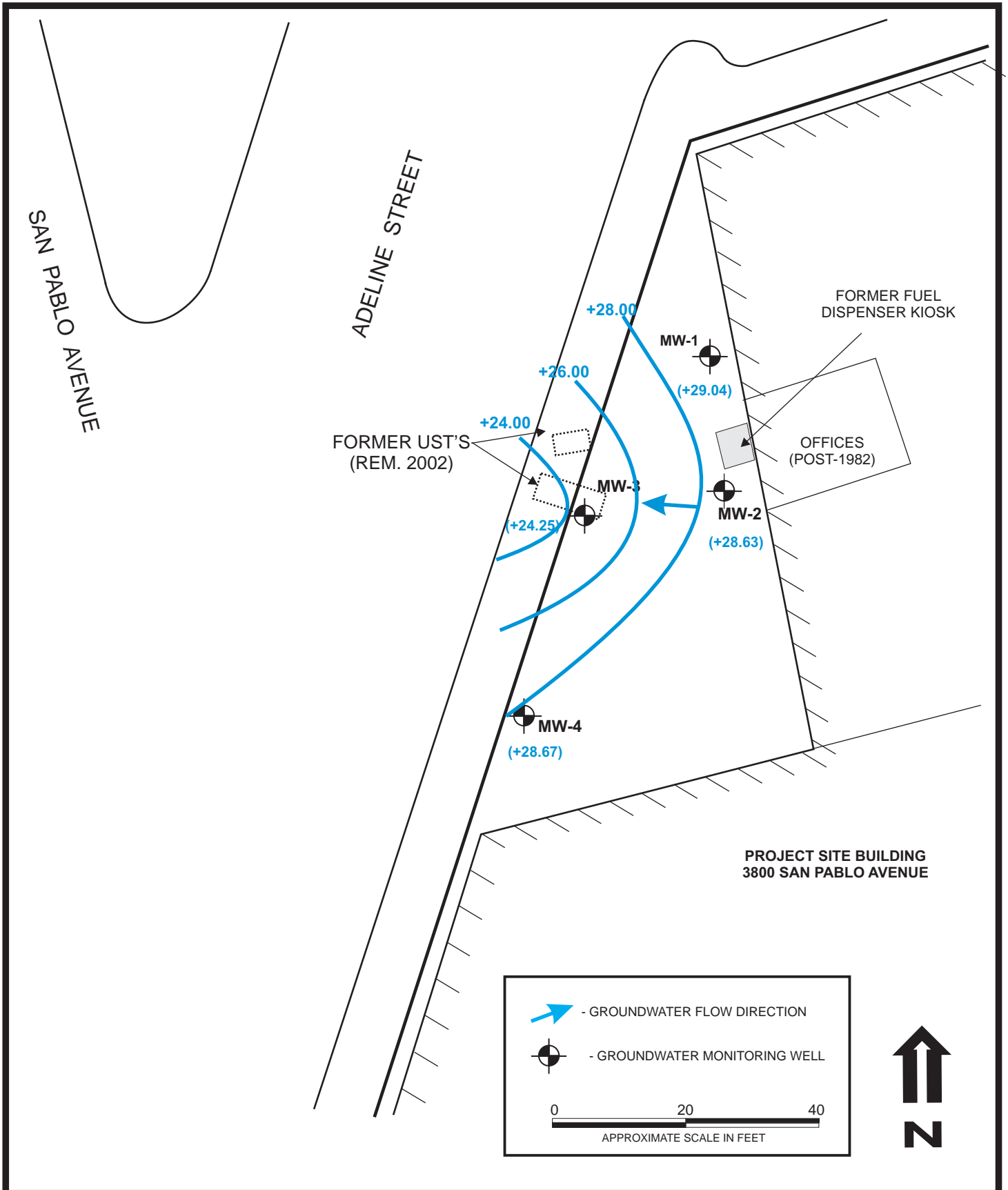
3800 SAN PABLO AVENUE
 EMERYVILLE, CALIFORNIA

DATE: 01/15/2014 FIGURE: 1

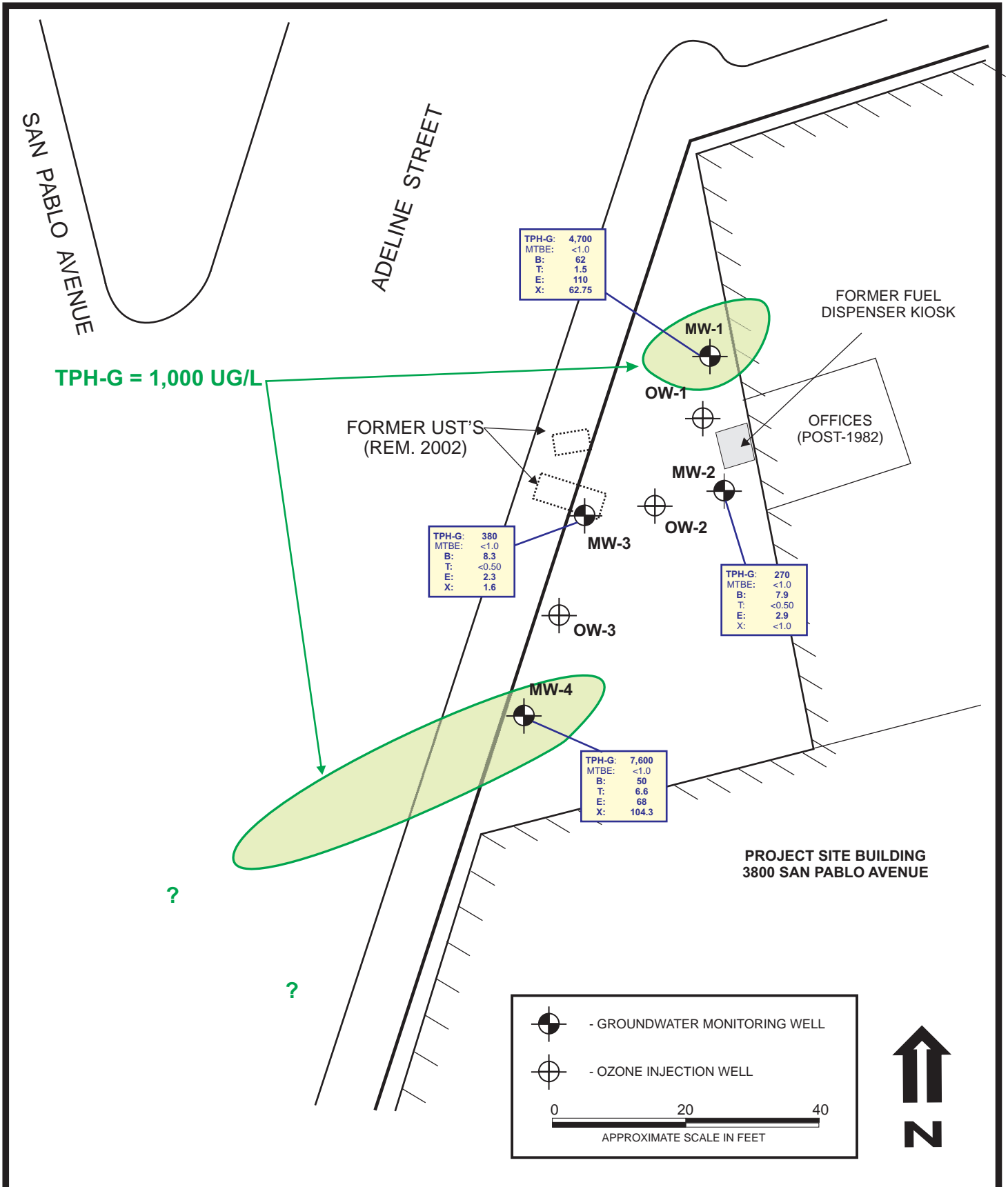




DESIGNED BY:	CHECKED BY: JG	SITE PLAN	DATE: 01/15/2014	FIGURE: 2
DRAWN BY: MR	SCALE:		GRIBI	
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



DESIGNED BY:	CHECKED BY: JG	GROUNDWATER ELEVATION GRADIENT - 12/30/2013	DATE: 01/15/2014	FIGURE: 3
DRAWN BY: MR	SCALE:		GRIBI	
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



DESIGNED BY:	CHECKED BY: JG	GROUNDWATER HYDROCARBON CONCENTRATIONS - 12/30/2013 3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA	DATE: 01/15/2014	FIGURE: 4
DRAWN BY: MR	SCALE:			
PROJECT NO:				

ATTACHMENT A
GROUNDWATER MONITORING
FIELD DATA RECORDS

Groundwater Gauging Field Sheet

Client Name SAN PABLO AVENUE VENTURE Project Name MAZ GLASS
 Field Personnel M. Resman Date 12/30/2013
 Weather Conditions partly cloudy, cold

Well ID	Depth to Free Product (feet)	Depth to Groundwater (feet)	Casing Elevation (msl)	Groundwater Elevation (msl)	Total Well Depth (feet)	Well Box Conditions
MW-1	—	9.92	38.96	29.04	22.7	
MW-2	—	10.33	38.96	28.63	22.8	
MW-3	—	14.59	38.84	24.25	22.8	
MW-4	—	9.81	38.48	28.67	22.8	

Groundwater Monitoring Field Sheet

Client Name SAN PABLO AVENUE VENTURE Project Name MAZ GLASS
 Sampling Personnel MAZ Date 12/30/2013
 Weather Conditions PC, cold

Well ID MW-1
 Casing Diameter (inches) 2.0 Total Depth (feet) 22.7
 Depth to Water 9.92 Depth to Free Product —
 Water Column (ft) 12.78 Product Thickness φ
 One Well Volume (gal) 2.17 3x Well Volume (gal) 6.5

Notes:
 One Well Volume is determine 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

Activity	Bailer	Pump	Comments
Purge Method		X	12V purg pump
Sample Method		K	12V purg pump

Time	Volume Purged	Temp. (F or C)	E.C. (µS/cm)	D.O. (mg/L)	pH	ORP (mV)	Comments
1440							
1443	2	19.6	916		7.38		
1446	4	19.7	940		7.04		
	6						
	7						Dye ~ 5-8 ft.

Characteristic	None	Slight	Moderate	Strong	Comments
Color		X			Brown
Odor		X			
Turbidity		X			
Sheen	X				
Other:					

Sample Time 1500 Sampler's Signature MAZ

Groundwater Monitoring Field Sheet

Client Name SAN PABLO AVENUE VENTURE Project Name MAZ GLASS
 Sampling Personnel MAR Date 12/30/2013
 Weather Conditions PC, cold

Well ID MW-2
 Casing Diameter (inches) 2.0 Total Depth (feet) 22.8
 Depth to Water 10.33 Depth to Free Product —
 Water Column (ft) 12.47 Product Thickness ∅
 One Well Volume (gal) 2.12 3x Well Volume (gal) 6.4

Notes:
 One Well Volume is determine 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

Activity	Bailer	Pump	Comments
Purge Method		X	12V purge pump
Sample Method		X	12V purge pump

FIELD PARAMETERS

Time	Volume Purged	Temp. (F or C)	E.C. (µS/cm)	D.O. (mg/L)	pH	ORP (mV)	Comments
1325							
1327	2	19.3	1.07	/	7.04	/	
1331	4	19.5	1.07	/	6.96	/	
1334	6	19.4	1.08	/	7.14	/	
	7						V. slow purging / collect sample

1334

SAMPLE OBSERVATIONS

Characteristic	None	Slight	Moderate	Strong	Comments
Color		X			opaque
Odor		X			H ₂ S
Turbidity		X			
Sheen	X				
Other:					

Sample Time 1340 Sampler's Signature MAR
 1340

Groundwater Monitoring Field Sheet

Client Name SAN PABLO AVENUE VENTURE Project Name MAZ GLASS
 Sampling Personnel MAR Date 12/30/2013
 Weather Conditions PC, cold

Well ID MW-3
 Casing Diameter (inches) 2.0 Total Depth (feet) 22.8
 Depth to Water 14.59 Depth to Free Product —
 Water Column (ft) 8.21 Product Thickness ∅
 One Well Volume (gal) 1.40 3x Well Volume (gal) 4.2

Notes:
 One Well Volume is determine 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

Activity	Bailer	Pump	Comments
Purge Method		X	12V purge pump
Sample Method			12V purge pump

FIELD PARAMETERS

Time	Volume Purged	Temp. (F or C)	E.C. (µS/cm)	D.O. (mg/L)	pH	ORP (mV)	Comments
1349							
1350	1	19.6	932	/	7.37	/	
1352	2	19.8	915	/	7.36	/	
1354	3	19.9	910	/	7.35	/	
1355	4	19.9	937	/	7.32	/	

SAMPLE OBSERVATIONS

Characteristic	None	Slight	Moderate	Strong	Comments
Color	X				
Odor		X			H ₂ S
Turbidity	X				
Sheen	X				
Other:					

Sample Time 1400 Sampler's Signature MAR

Groundwater Monitoring Field Sheet

Client Name SAN PABLO AVENUE VENTURE Project Name MAZ GLASS
 Sampling Personnel MATZ Date 12/30/2013
 Weather Conditions PC, cold

Well ID MW-4
 Casing Diameter (inches) 2.0 Total Depth (feet) 22.8
 Depth to Water 9.81 Depth to Free Product —
 Water Column (ft) 12.99 Product Thickness ∅
 One Well Volume (gal) 2.21 3x Well Volume (gal) 6.6

Notes:
 One Well Volume is determine 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

Activity	Bailer	Pump	Comments
Purge Method		X	120 purge pump
Sample Method		X	120 purge pump

FIELD PARAMETERS

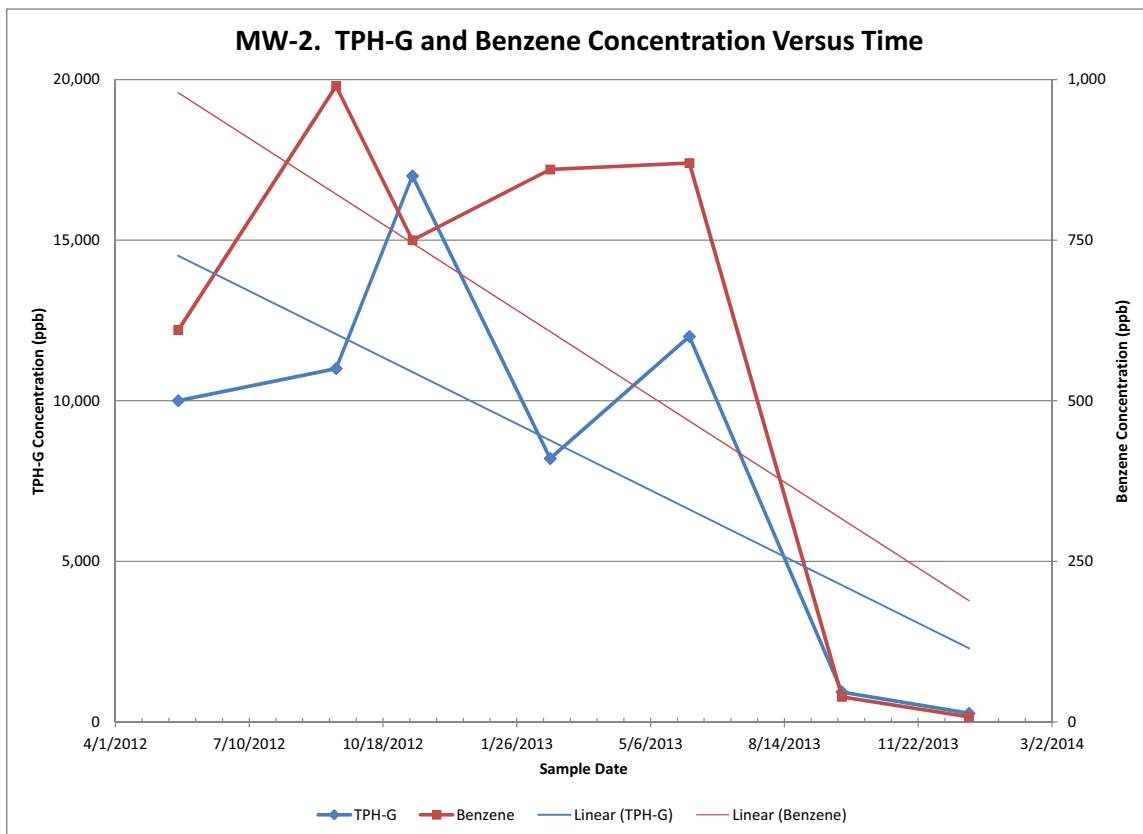
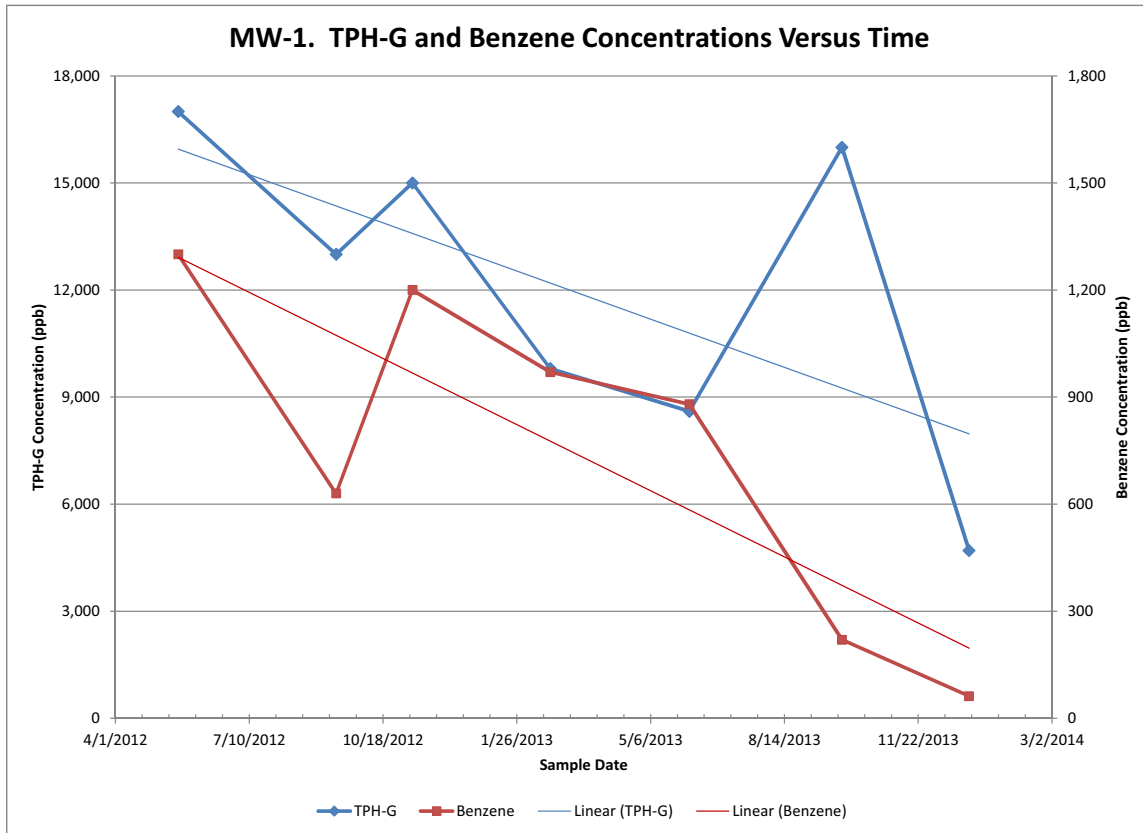
Time	Volume Purged	Temp. (F or C)	E.C. $\mu\text{S/cm}$	D.O. (mg/L)	pH	ORP (mV)	Comments
1411							
1414	2	18.7	1.05	/	6.72	/	
1418	4	18.7	1.06	/	6.72	/	
1421	6	18.8	1.06	/	6.63		
1423	7	18.8	1.07		6.67		

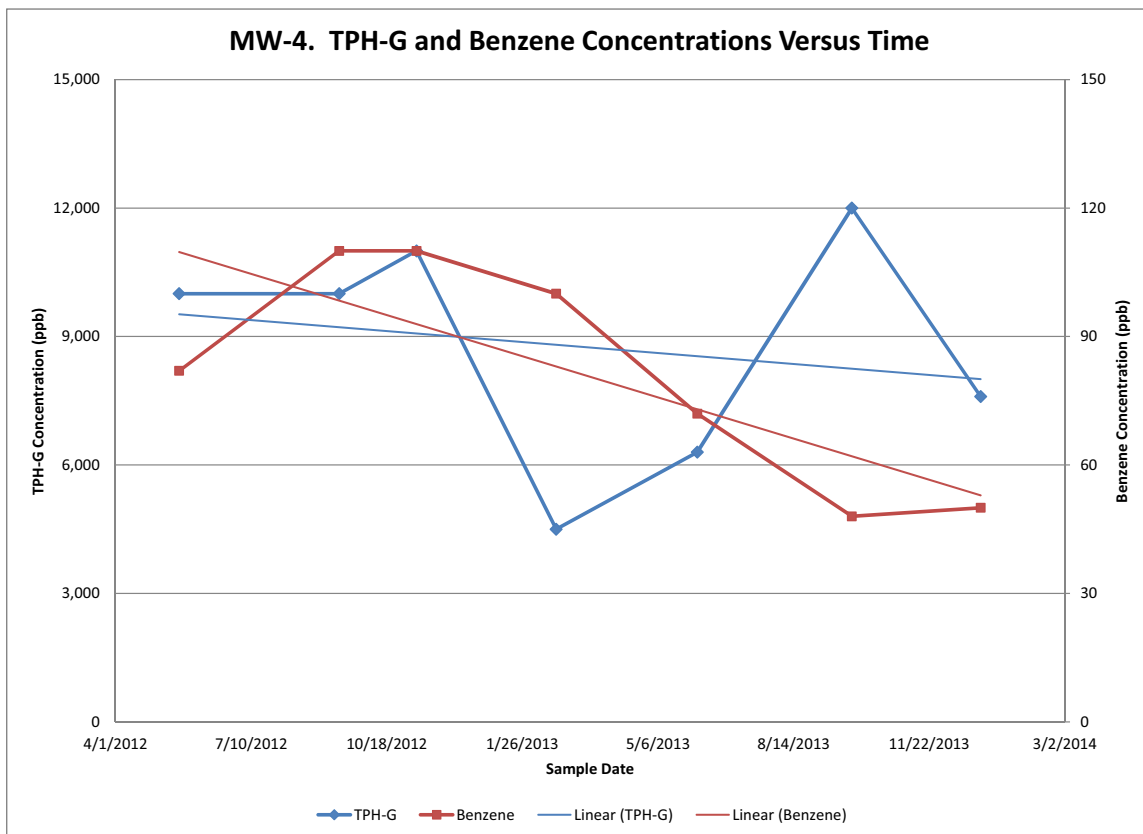
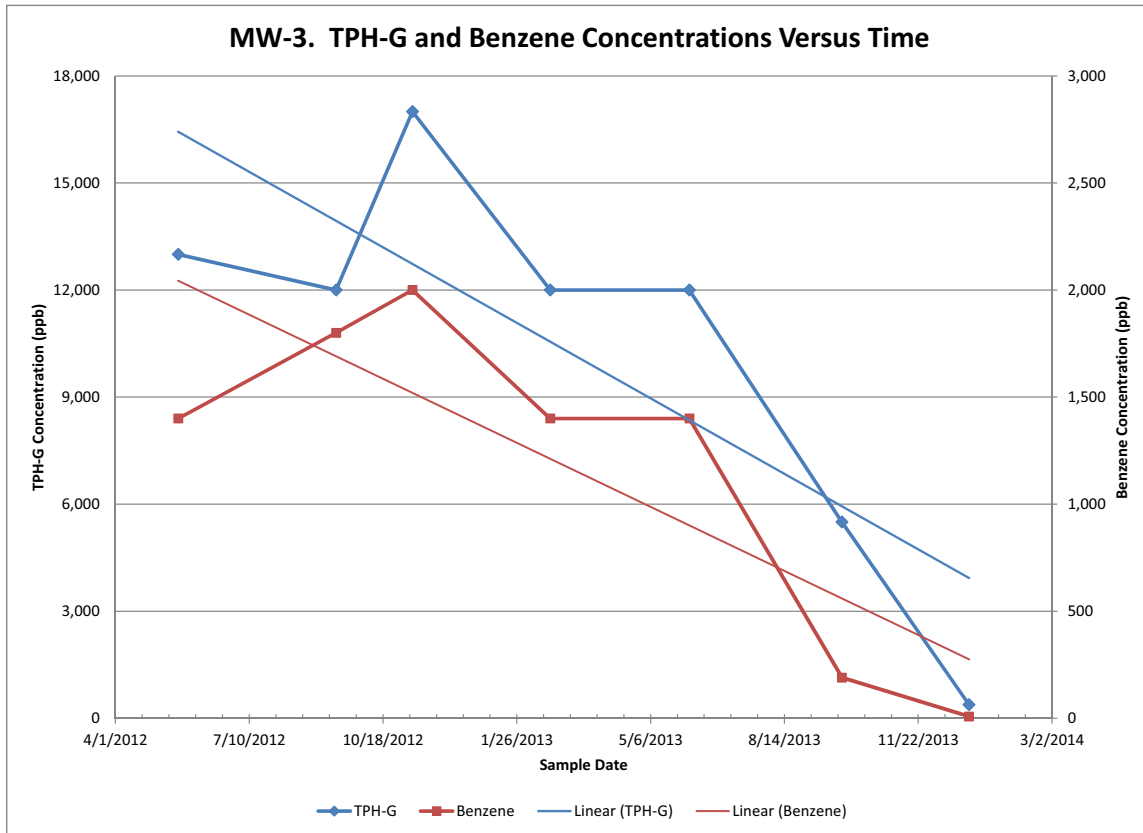
SAMPLE OBSERVATIONS

Characteristic	None	Slight	Moderate	Strong	Comments
Color		X			grey
Odor		X			H ₂ S
Turbidity		X			
Sheen	X				
Other:					

Sample Time 1425 Sampler's Signature MATZ

ATTACHMENT B
GROUNDWATER HYDROCARBON TRENDS





ATTACHMENT C

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



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

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 RunningCrane
Project Manager



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

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

MW-1
T140009-01 (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

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	"	"	"	"	"	"	

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 RunningCrane

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

MW-2
T140009-02 (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

Naphthalene	ND	1.0	ug/l	1	4010823	01/03/14	01/08/14	EPA 8260B	
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.

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 RunningCrane

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

**MW-3
 T140009-03 (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

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.

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Katherine RunningCrane

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)**

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

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	"	"	"	"	"	"	E
Surrogate: Toluene-d8		101 %	88.8-117	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	83.5-119	"	"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	81.1-136	"	"	"	"	"	

SunStar Laboratories, Inc.

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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 4010823 - EPA 5030 GCMS

Blank (4010823-BLK1)									
					Prepared: 01/03/14 Analyzed: 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 Analyzed: 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)									
					Source: T140009-01 Prepared: 01/03/14 Analyzed: 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-07
Toluene	27.6	0.50	"	20.0	1.51	130	75-125		QM-07
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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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 4010823 - EPA 5030 GCMS

Matrix Spike Dup (4010823-MSD1)									
					Source: T140009-01 Prepared: 01/03/14 Analyzed: 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

SAMPLE RECEIVING REVIEW SHEET

BATCH # 714009

Client Name: GRUB Project: MAR GLASS

Received by: SUNNY Date/Time Received: 1.2.14 / 8:45

Delivered by: Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.2 °C +/- the CF (-0.2°C) = 2.0 °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* N/A

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 requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date SL 1.2.14

Comments:
