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By Alameda County Environmental Health 10:32 am, Dec 08, 201

December 8, 2015

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

Attention: Mark Detterman

Subject:Results of Additional Soil Gas Sampling3800 San Pablo Avenue, Emeryville, CaliforniaACDEH Fuel Leak Case: RO00002520; Global ID: T06019788682

Ladies and Gentlemen:

Attached please find a copy of the *Results of Additional Soil Gas Sampling* letter 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 Banhip

William H. Banker, Jr. San Pablo Avenue Venture 530 The Glade Orinda, CA 94563



December 8, 2015

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

Attention: Mark Detterman

Subject:Results of Additional Soil Gas Sampling3800 San Pablo Avenue, Emeryville, CaliforniaACDEH Fuel Leak Case: RO00002520; Global ID: T06019788682

Ladies and Gentlemen:

Gribi Associates is pleased to submit this letter documenting additional soil gas sampling at for the property located at 3800 San Pablo Avenue in Emeryville, California (Site) (see Figure 1 and Figure 2) on November 18, 2015.

On October 13, 2015, Gribi Associates sampled sub-slab vapor well SS-1 and soil gas well SG-4, both located adjacent to the former UST area over-excavated on September 25, 2015. During sampling, helium was used as a leak detection compound, and Gribi Associates requested laboratory analysis for TPH-G/BTEX, methane, fixed gases, and helium. However, the analytical laboratory indicated that, after analyzing for TPH-G/BTEX and methane, there was insufficient sample for fixed gas and helium analysis. Thus, SS-1 and SG-4 were resampled on November 18, 2015, seven weeks after completion of the excavation.

On November 18, 2015, Gribi Associates re-sampled sub-slab vapor well SS-1 and soil gas well SG-4. Vapor sampling was conducted in general conformance with applicable DTSC guidelines using the methods described in previous reports. During sampling, helium was used as a leak detection compound. Vapor samples were analyzed by Sunstar Laboratories for TPH-G/BTEX, methane, fixed gases, and helium.

Laboratory analytical results for the November 18 sampling event are summarized in Table 1, and the laboratory data report is included in Attachment A. Vapor samples from SS-1 and SG-4

Alameda County Department of Environmental Health December 8, 2015 Page 2

showed respective methane concentrations of 0.44 % and 0.34 %, indicating that rebound is not occurring. Sub-slab TPH-G concentrations were non-detect (RL=7,170 ug/m<sup>3</sup>). Based on these results, we conclude that recent soil excavation activities in September 2015 were effective in mitigating previously-identified methane vapor impacts, which clearly represented a relict vapor plume trapped beneath the building slab over many decades. Further, it is our conclusion that vapor mitigation is not necessary in this or other sub-slab areas of the building.

Approval to proceed with construction in this portion of the site is therefore requested.

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

Very truly yours,

James E. Gribi Professional Geologist California No. 5843

JEG:ct Enclosure

C Mr. Bill Banker, Jr., San Pablo Avenue Venture Mr. Tom Graf, GrafCon









								ble 4								
	CUMULATIVE SOIL GAS LABORATORY ANALYTICAL RESULTS Former Maz Glass UST Site															
									-							
Sample ID	Date	Sample Depth	<b>TPH-D</b> (ug/m3)	<b>TPH-G</b> (ug/m3)	<b>B</b> (ug/m3)	<b>T</b> (ug/m3)	<b>E</b> (ug/m3)	<b>X</b> (ug/m3)	Other (ug/m3)	Methane (%)	<b>CO2</b> (%)	N (%)	<b>O2</b> (%)	Helium (%)		
S	OIL GAS SAMPL	.ES														
SG-1	-1 8/28/2014 5.5 ft NA <7,170 <3.3 <3.8 <4.4 <8.8 Heptane = 5.1									<0.00081	<1.62	62.1	14.2	<1.62		
	12/7/2014 Sucked water; did not sample															
1/29/2015 Sucked water; did not sample																
SG-2	9/15/2014	5.5 ft	NA	7,600	<3.3	<3.8	<4.4	<8.8	Cyclohexane = <b>310</b> Heptane = <b>46</b> Hexane = <b>1,000</b> 1,3,5-TMB = <b>56</b>	0.017	3.87	51.0	13.2	<1.57		
	9/25/2014	5.5 ft	NA	<7,170	<160	<190	<220	<220	Cyclohexane = <b>1,900</b> Hexane = <b>1,000</b>	0.0077	5.3	58.3	2.01	0.00		
	12/7/2014															
	1/29/2015		NA	<7,170	<3.3	<3.8	<4.4	<8.8	Cyclohexane = <b>53</b> Heptane = <b>14</b> Hexane = <b>42</b> TCE = <b>16</b>	0.0493	<1.75	59.2	2.11	0.00		
SG-3	8/28/2014	5.5 ft	NA	<7,170	<3.3	<3.8	<4.4	<8.8	All ND	<0.00076	<1.51	49.7	16.6	<1.51		
	12/7/2014			r	r	Did ı	not attempt	to sample due	to shallow groundwater depths			1		4		
	1/29/2015							Sucked water;	did not sample							
SG-4	8/28/2014	5.5 ft	NA	<7,170	<3.3	<3.8	<4.4	<8.8	1,2,4-TMB = <b>13</b>	0.024	<1.54	52.3	5.87	<1.54		
	12/7/2014					Did ı	not attempt	to sample due	to shallow groundwater depths			1				
	1/29/2015		NA	440,000	<160	<190	<220	<220	Cyclohexane = <b>52,000</b> Heptane = <b>9,800</b> Hexane = <b>26,000</b>	0.0121	6.49	64.5	<1.72	0.00		
	3/11/2015		120,000 (A)	420,000	<160	<190	<220	<220	Cyclohexane = <b>35,000</b> Heptane = <b>150,000</b> Hexane = <b>9,700</b>	38	8.01	68.5	2.08	0.00		
(Dup)	3/11/2015		NA	485,000	<160	<190	<220	<220	Cyclohexane = <b>48,000</b> Heptane = <b>37,000</b> Hexane = <b>20,000</b>	43	8.64	70.9	<1.72	0.00		
	3/18/2015		NA	NA	<10,000	<10,000	<10,000	<10,000	All ND	26	14.0	NA	0.93	0.00		
	10/13/2015		NA	174,000	<3.3	<3.8	<4.4	<8.8	All ND	1.3	NA	NA	NA	NA		
(Dup)	10/13/2015		NA	201,000	<3.3	<3.8	<4.4	<8.8	All ND	1.5	NA	NA	NA	NA		
	11/18/2015		NA	576,000	<160	<190	<220	<220	All ND	0.34	3.84	80.6	<1.0	<5.0		

	Table 4       CUMULATIVE SOIL GAS LABORATORY ANALYTICAL RESULTS       Former Maz Glass UST Site													
Sample ID	Date     Sample     TPH-D     TPH-G     B     T     E     X     Other     Methane     CC       Depth     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (ug/m3)     (vg/m3)     (vg/m3)												<b>O2</b> (%)	Helium (%)
SG-5	8/28/2014	5.5 ft	NA	<7,170	1,700	5,600	1,200	4,570	All ND	0.015	<1.53	49.7	12.5	<1.53
	9/25/2014		NA	<7,170	<3.3	<3.8	<4.4	<8.8	All ND	0.0018	2.01	54.7	9.28	0.00
(Dup)	9/25/2014		NA	<7,170	<3.3	<3.8	<4.4	<8.9	All ND	<0.00079	2.01	53.5	10.8	0.00
	12/7/2014			1			r	Sucked water	; did not sample					r
	1/29/2015		NA	<7,170	<3.3	<3.8	<4.4	<8.8	Tetrahydrofuran = <b>47</b> Tetrachloroethene = <b>8.7</b> 2-Butanone (MEK) = <b>47</b>	0.00031	<1.54	41.9	2.1	0.00
	3/11/2015		<1,000	<7,170	<3.3	<3.8	<4.4	<8.8	Heptane = <b>4.8</b> Hexane = <b>4.0</b> Tetrachloroethene = <b>39</b> 1,1,2-Trichloroethane = <b>17</b> Trichloroethene = <b>11</b>	0.17	<1.85	71.1	11	0.00
S	UB-SLAB VAPO	R SAMPLES												
SS-1	3/18/2015	0.5 ft	NA	NA	17	23	<22	<66	All ND	5.8	10.0	NA	1.0	0.00
	10/13/2015	0.5 FT	NA	<7,170	<3.3	<3.8	<4.4	<8.8	All ND	<0.00050	NA	NA	NA	NA
	11/18/2015	0.5 ft	NA	<7,170	<3.3	<3.8	<4.4	<8.8	All ND	0.44	4.14	88.7	<1.0	<5.0
SS-2	3/18/2015	0.5 ft	NA	NA	<16	35	<22	130	Chloroform = <b>36</b> 4-Ethyltoluene = <b>31</b> 1,2,4-Trimethylbenzene = <b>140</b> 1,3,5-Trimethylbenzene = <b>74</b>	0.0047	3.2	NA	14	0.00
SS-3	3/18/2015	0.5 ft	NA	NA	4.0	4.3	5.4	32	Chloroform = <b>27</b> 4-Ethyltoluene = <b>6.3</b> MIBK = <b>5.1</b> Tetrachloroethene = <b>4.3</b> 1,2,4-Trimethylbenzene = <b>19</b> 1,3,5-Trimethylbenzene = <b>6.8</b>	0.0003	9.6	NA	9.0	0.00
SS-4	3/25/2015	0.5 ft	NA	1,100	8.6	86	40	330	Acetone = <b>66</b> 2-Butanone (MEK) = <b>19</b> 4-Methyl-2-pentanone = <b>1,300</b> Cumene = <b>6.1</b> 4-Ethyltoluene = <b>7.6</b> 1,2,4-Trimethylbenzene = <b>19</b>	<0.00021	6.8	NA	12	<0.11
SS-5	3/25/2015	0.5 ft	NA	<430	<3.4	<4.0	<4.6	<4.6	Acetone = <b>27</b> 4-Methyl-2-pentanone = <b>5.9</b>	<0.00021	5.7	NA	14	<0.11

	Table 4       CUMULATIVE SOIL GAS LABORATORY ANALYTICAL RESULTS       Former Maz Glass UST Site														
Sample ID	Date	Sample Depth	<b>TPH-D</b> (ug/m3)	<b>TPH-G</b> (ug/m3)	B     T     E     X     Other     Methane     CO2     N       )     (ug/m3)     (ug/m3)     (ug/m3)     (%)     (%)     (%)									Helium (%)	
SS-6	3/25/2015	0.5 ft	NA	9,000	<3.4	25	30	252	Acetone = <b>120</b> 2-Butanone (MEK) = <b>14</b> Tetrahydrofuran = <b>7.7</b> 2,2,4-Trimethylpentane = <b>16</b> 4-Methyl-2-pentanone = <b>500</b> 4-Ethyltoluene = <b>5.4</b> 1,2,4-Trimethylbenzene = <b>8.1</b>	0.32	13	NA	1.6	<0.11	
SS-7	3/25/2015	0.5 ft	NA	260,000	<27	<32	<37	<37	Acetone = <b>410</b>	20	9.9	NA	1.1	<0.14	
SS-8	3/25/2015	0.5 ft	NA	490	<3.4	<4.0	<4.6	<4.6	4-Methyl-2-pentanone = 5.8	0.015	0.58	NA	20	<0.13	
SS-9	3/25/2015	0.5 ft	NA	<430	4.6	<4.0	<4.6	6.5	Acetone = <b>34</b> Chloroform = <b>9.1</b> Carbon Tetrachloride = <b>78</b> 4-Methyl-2-pentanone = <b>12</b>	<0.00021	1.2	NA	19	<0.10	
SS-10	3/25/2015	0.5 ft	NA	2,500	<3.4	6.6	5.5	48	4-Methyl-2-pentanone = <b>34</b>	<0.00021	0.12		20	<0.10	
\$\$-11	3/25/2015	0.5 ft	NA	<440	6.0	6.2	6.0	28	Aceton = <b>38</b> Carbon Disulfide = <b>68</b> 4-Methyl-2-pentanone = <b>52</b> Tetrachloroethene = <b>62</b>	<0.00021	0.14	NA	19	<0.11	
	Soil Gas ESL		2.5E+06	2.5E+06	420	1.3E+06	4,900	4.4E+05	Various	LEL = 4.4					

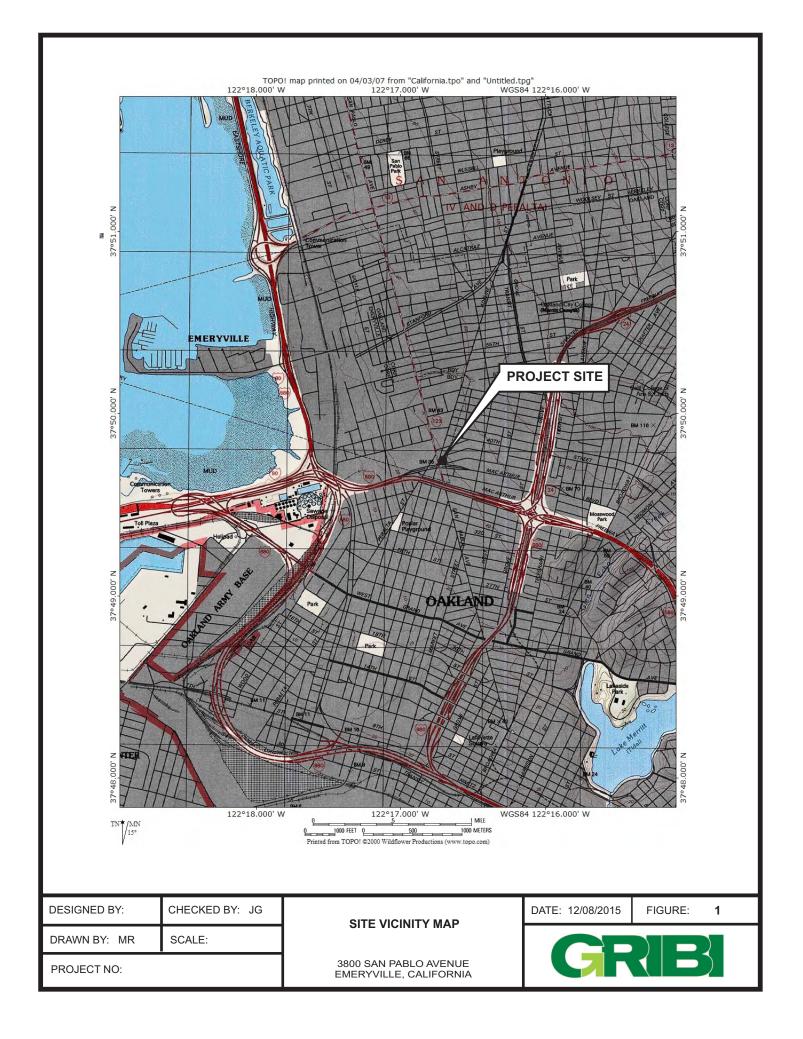
#### **Table Notes**

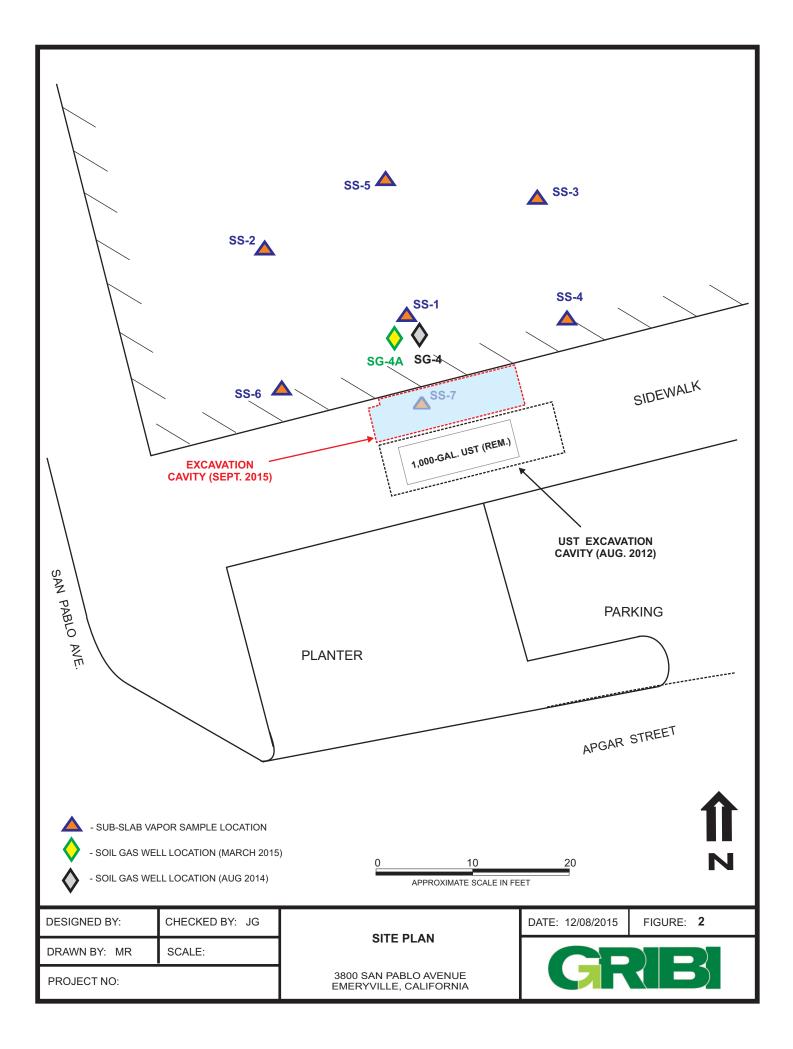
B = Benzene	1,2,4-TMB = 1,2,4-Trimethylbenzene	Other = Other VOCs, includes approxmately 47 individual VOC compounds
T = Toluene	ug/m3 = micrograms per cubic meter	<7,170 = Not detected at or above the expressed value.
E = Ethylhbenzene	ppmv = parts per million by volume	ND = Not detected above laboratory detection levels.
X = Xylenes	% = Percent	NA = Not analyzed for this analyte

(A) = The McCampbell Analytical report states: "Due to the high organic content observed in the sample, a quantification of the internal standards were unobtainable. The quantitated TPH-diesel and naphthalene concentrations are calculated using a modified TO-17 analytical procedure which includes an external calibration. The TPH-diesel and naphthalene results are estimated. It is noted that the majority of the calculated TPH-diesel concentration is derived from an observed lighter eluting TPH-gas range pattern."



FIGURES





## ATTACHMENT A

LABORATORY DATA REPORTS AND CHAIN-OF-CUSTODY RECORDS



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

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

07 December 2015

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 11/19/15 10:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rotherine 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	12/07/15 16:09

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG-4	T152914-01	Air	11/18/15 10:54	11/19/15 10:45
SS-1	T152914-02	Air	11/18/15 11:20	11/19/15 10:45

SunStar Laboratories, Inc.

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	12/07/15 16:09

#### **DETECTIONS SUMMARY**

Sample ID: SG-4	Labora	tory ID:	T152914-01					
		Reporting						
Analyte	Result	Limit	Units	Method	Notes			
Methane	3400	5.0	ppm(v)	8015M				
C6-C12 (GRO)	576000	7170	ug/m³ Air	TO-3/TO-14 m				
Carbon Dioxide	3.84	1.00	%	GC				
Nitrogen	80.6	1.00	%	GC				
Sample ID: SS-1	Labora	tory ID:	T152914-02					
		Reporting						
Analyte	Result	Limit	Units	Method	Notes			
Methane	4400	5.0	ppm(v)	8015M				
Carbon Dioxide	4.14	1.00	%	GC				
Nitrogen	88.7	1.00	%	GC				

SunStar Laboratories, Inc.

Katherine Running Crane

# SunStar Laboratories, Inc. PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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 Num	iect: Maz Gl ber: [none] ger: Jim Gri					<b>Reported</b> 12/07/15 16	
		T152	SG-4 914-01 (Aiı	r)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	aboratorie	s, Inc.					
TO-15									
Benzene	ND	160	ug/m³ Air	1	5111917	11/19/15	11/23/15	TO-15	TO-14
Toluene	ND	190	"		"	"	"	"	TO-14
Ethylbenzene	ND	220	"		"	"	"	"	TO-14
m,p-Xylene	ND	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	220	"	"	"	"		"	TO-14
Methane by GC									
Methane	3400	5.0	ppm(v)	1	5112031	11/20/15	11/30/15	8015M	
<u>Total Volatile Organic Compounds by</u>	TO-3 (modified)								
C6-C12 (GRO)	576000	7170	ug/m³ Air	1	5120127	11/19/15	11/23/15	TO-3/TO-14 m	
Fixed Gases ASTM D1946-90									
Carbon Dioxide	3.84	1.00	%	1	5112030	11/20/15	11/30/15	GC	
Oxygen	ND	1.00	"	"	"	"	"		
Nitrogen	80.6	1.00	"	"	"	"	"	"	
Helium	ND	5.00	"	"	"	"	"	"	

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager

# SunStar Laboratories, Inc. Providing Quality Analytical Services Nationwide

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

Gribi Associates		Pro	ect: Maz Gl	ass					
1090 Adam Street, Suite K		Project Num	ber: [none]					Reported:	
Benicia CA, 94510		Project Mana	ger: Jim Gri	bi				12/07/15 16	.09
			SS-1						
		T152	914-02 (Aiı	;)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	aboratorie	s, Inc.					
TO-15									
Benzene	ND	3.3	ug/m³ Air	1.7	5111917	11/19/15	11/25/15	TO-15	
Toluene	ND	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	40-1	60	"	"	"	"	
Methane by GC									
Methane	4400	5.0	ppm(v)	1	5112031	11/20/15	11/30/15	8015M	
<u>Total Volatile Organic Compounds by</u>	TO-3 (modified)								
C6-C12 (GRO)	ND	7170	ug/m³ Air	1	5120127	11/19/15	11/23/15	TO-3/TO-14 m	
Fixed Gases ASTM D1946-90									
Carbon Dioxide	4.14	1.00	%	1	5112030	11/20/15	11/30/15	GC	
Oxygen	ND	1.00	"	"	"	"	"	"	
Nitrogen	88.7	1.00	"	"	"	"	"	"	
Helium	ND	5.00	"	"	"	"	"	"	

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	Reported:
Benicia CA, 94510	Project Manager: Jim Gribi	12/07/15 16:09

#### **TO-15 - Quality Control**

#### SunStar Laboratories, Inc.

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

#### Batch 5111917 - Canister Analysis

Blank (5111917-BLK1)				Prepared: 11/19/15 Analyzed: 11/25/15
Acetone	ND	12	ug/m³ Air	
1,3-Butadiene	ND	4.5	"	
Carbon Disulfide	ND	3.2	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	
Isopropyl alcohol	ND	13	"	
Bromodichloromethane	ND	6.8	"	
Bromoform	ND	11	"	
Bromomethane	ND	4.0	"	
Carbon tetrachloride	ND	6.4	"	
Chlorobenzene	ND	4.7	"	
Chloroethane	ND	2.7	"	
Chloroform	ND	5.0	"	
Chloromethane	ND	11	"	
Cyclohexane	ND	3.5	"	
Heptane	ND	4.2	"	
Hexane	ND	3.6	"	
Dibromochloromethane	ND	8.7	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	
1,2-Dichlorobenzene	ND	6.1	"	
1,3-Dichlorobenzene	ND	6.1	"	
1,4-Dichlorobenzene	ND	6.1	"	
Dichlorodifluoromethane	ND	5.0	"	
1,1-Dichloroethane	ND	4.1	"	
1,2-Dichloroethane	ND	4.1	"	
1,1-Dichloroethene	ND	4.0	"	
cis-1,2-Dichloroethene	ND	4.0	"	
trans-1,2-Dichloroethene	ND	4.0	"	
1,2-Dichloropropane	ND	4.7	"	
cis-1,3-Dichloropropene	ND	4.6	"	
trans-1,3-Dichloropropene	ND	4.6	"	
4-Ethyltoluene	ND	5.0	"	
Methylene chloride	ND	3.5	"	
Styrene	ND	4.3	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	
Tetrahydrofuran	ND	3.0	"	

SunStar Laboratories, Inc.

Katherine Running Crane

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

Gribi Associates		F	roject: Ma	z Glass						
1090 Adam Street, Suite K		Project N	umber: [no	ne]					Report	ed:
Benicia CA, 94510		-	anager: Jim	-					12/07/15	16:09
		ТО-15	- Quality	Control						
		SunStar	-		ic.					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111917 - Canister Analysis		· · ·								
Blank (5111917-BLK1)				Prepared: 1	11/19/15 A	Analyzed: 1	1/25/15			
Tetrachloroethene	ND	6.9	ug/m³ Air							
1,1,2-Trichloroethane	ND	5.6	"							
1,1,1-Trichloroethane	ND	5.6	"							
Trichloroethene	ND	5.5	"							
Trichlorofluoromethane	ND	5.7	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl acetate	ND	3.6								
Vinyl chloride	ND	2.6	"							
1,4-Dioxane	ND	18	"							
2-Butanone (MEK)	ND	15	"							
Methyl isobutyl ketone	ND	42	"							
Benzene	ND	3.3	"							
Toluene	ND	3.8	"							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
o-Xylene	ND	4.4	"							
Surrogate: 4-Bromofluorobenzene	52.1		"	45.3		115	40-160			
Duplicate (5111917-DUP1)	Sou	rce: T152914	-01	Prepared: 1	11/19/15 A	Analyzed: 1	1/23/15			
Acetone	ND	120	ug/m³ Air		ND				30	TO-1
1,3-Butadiene	ND	110	"		ND				30	TO-
Carbon Disulfide	ND	160	"		ND				30	TO-1
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"		ND				30	TO-1
Isopropyl alcohol	ND	130	"		ND				30	TO-
Bromodichloromethane	ND	340	"		ND				30	TO-
Bromoform	ND	530	"		ND				30	TO-
Bromomethane	ND	200	"		ND				30	TO-
Carbon tetrachloride	ND	320	"		ND				30	TO-
Chlorobenzene	ND	230	"		ND				30	TO-
Chloroethane	ND	130	"		ND				30	TO-
Chloroform	ND	250	"		ND				30	TO-
Chloromethane	ND	110	"		ND				30	TO-
Cyclohexane	ND	170	"		ND				30	TO-1
Heptane	ND	210	"		ND				30	TO-1

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Gribi Associates	Project: Maz Glass						
1090 Adam Street, Suite K	Reported:						
Benicia CA, 94510	12/07/15 16:09						
TO-15 - Quality Control							

#### SunStar Laboratories, Inc.

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

#### Batch 5111917 - Canister Analysis

Duplicate (5111917-DUP1)	So	urce: T152914	-01	Prepared: 11/19/15 Analyzed: 1			
Hexane	888	180	ug/m³ Air	928	4.45	30	TO-14
Dibromochloromethane	ND	430	"	ND		30	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	ND		30	TO-14
1,2-Dichlorobenzene	ND	310	"	ND		30	TO-14
1,3-Dichlorobenzene	ND	310	"	ND		30	TO-14
1,4-Dichlorobenzene	ND	310	"	ND		30	TO-14
Dichlorodifluoromethane	ND	250	"	ND		30	TO-14
1,1-Dichloroethane	ND	210	"	ND		30	TO-14
1,2-Dichloroethane	ND	210	"	ND		30	TO-14
1,1-Dichloroethene	ND	200	"	ND		30	TO-14
cis-1,2-Dichloroethene	ND	200	"	ND		30	TO-14
trans-1,2-Dichloroethene	ND	200	"	ND		30	TO-14
1,2-Dichloropropane	ND	240	"	ND		30	TO-14
cis-1,3-Dichloropropene	ND	230	"	ND		30	TO-14
trans-1,3-Dichloropropene	ND	230	"	ND		30	TO-14
4-Ethyltoluene	ND	250	"	ND		30	TO-14
Methylene chloride	ND	180	"	ND		30	TO-14
Styrene	ND	220	"	ND		30	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	ND		30	TO-14
Tetrahydrofuran	ND	150	"	ND		30	TO-14
Tetrachloroethene	ND	350	"	ND		30	TO-14
1,1,2-Trichloroethane	ND	280	"	ND		30	TO-14
1,1,1-Trichloroethane	ND	280	"	ND		30	TO-14
Trichloroethene	ND	270	"	ND		30	TO-14
Trichlorofluoromethane	ND	290	"	ND		30	TO-14
1,3,5-Trimethylbenzene	ND	250	"	ND		30	TO-14
1,2,4-Trimethylbenzene	ND	250	"	ND		30	TO-14
Vinyl acetate	ND	180	"	ND		30	TO-14
Vinyl chloride	ND	130	"	ND		30	TO-14
1,4-Dioxane	ND	180	"	ND		30	TO-14
2-Butanone (MEK)	ND	150	"	ND		30	TO-14
Methyl isobutyl ketone	ND	210	"	ND		30	TO-14
Benzene	ND	160	"	ND		30	TO-14
Toluene	ND	190	"	ND		30	TO-14
Ethylbenzene	ND	220	"	ND		30	TO-14
m,p-Xylene	ND	220	"	ND		30	TO-14

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Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Project: Maz Glass Project Number: [none] Project Manager: Jim Gribi								<b>Reported:</b> 12/07/15 16:09		
				y Control tories, In							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 5111917 - Canister Analysis Duplicate (5111917-DUP1)	Sou	rce: T152914	-01	Prepared: 1	11/19/15 A	nalyzed: 11	/23/15				
o-Xylene	ND	220	ug/m³ Air		ND				30	TO-14	

o-Xylene

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Kotherine Running Crane

Katherine RunningCrane, Project Manager

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Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Project: Maz Glass Project Number: [none] Project Manager: Jim Gribi								<b>Reported:</b> 12/07/15 16:09			
	Ν	Iethane by SunStar		uality Con Itories, In								
		Sunstan										
		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 5112031 - EPA 5030 GC												
Blank (5112031-BLK1)				Prepared: 1	1/20/15 A	nalyzed: 11	/30/15					
Methane	ND	5.0	ppm(v)									
Duplicate (5112031-DUP1)	Sour	ce: T152914-	•01	Prepared: 1	1/20/15 A	nalyzed: 11	/30/15					
Methane	3310	5.0	ppm(v)		3420			3.30	20			

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Katherine Running Crane

Katherine RunningCrane, Project Manager

# SunStar Laboratories, Inc. PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Total Volatile Organic Compounds by TO-3 (modified) - Quality Control SunStar Laboratories, Inc.							
Benicia CA, 94510	Project Manager:		12/07/15 16:09				
1090 Adam Street, Suite K	Project Number:	[none]	Reported:				
Gribi Associates	Project:	Maz Glass					

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120127 - Canister Analysis									
Blank (5120127-BLK1)			Prepared:	11/19/15 A	nalyzed: 11	/23/15			
C6-C12 (GRO)	ND	7170 ug/m³ Air							
Duplicate (5120127-DUP1)	Sour	ce: T152914-01	Prepared:	11/19/15 A	nalyzed: 11	/23/15			
C6-C12 (GRO)	570000	7170 ug/m3 Air		576000			1.10	30	

SunStar Laboratories, Inc.

Katherine Running Crane

Katherine RunningCrane, Project Manager

# SunStar — Laboratories, Inc. Providing Quality Analytical Services Nationwide

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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	12/07/15 16:09					
Eined Course ASTM D104( 00 Ourslite Courters)							

#### Fixed Gases ASTM D1946-90 - Quality Control

#### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5112030 - EPA 5030 GC										
Blank (5112030-BLK1)				Prepared: 1	1/20/15 A	nalyzed: 11	/30/15			
Carbon Dioxide	ND	1.00	%							
Oxygen	ND	1.00	"							
Helium	ND	5.00	"							
Duplicate (5112030-DUP1)	Sour	ce: T152914-0	)1	Prepared: 1	1/20/15 A	nalyzed: 11	/30/15			
Carbon Dioxide	3.77	1.00	%		3.84			1.81	20	
Oxygen	ND	1.00	"		ND				20	
Nitrogen	79.6	1.00	"		80.6			1.23	20	
Helium	ND	5.00	"		ND				200	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Relative Percent Difference

RPD

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	12/07/15 16:09

#### **Notes and Definitions**

TO-14TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14<br/>and reporting limit has been adjusted accordingly.DETAnalyte DETECTEDNDAnalyte NOT DETECTED at or above the reporting limitNRNot ReporteddrySample results reported on a dry weight basis

SunStar Laboratories, Inc.

Katherine RunningCrane

AIR LABORATORY Chain of Custody Record Client: Grib) Associates Address: 1090 Adams St, EK Benicia CA Phone: 707-748-7743 Fax: 707-748-7763 Project Manager: J. Gribi						Project N Collector	PROVII 2571 949-2 11 (18 Iame: <u>/</u> : M · K	DING 2 Co 297- 297- 297- 297- 295			OT ANA entro	e Dr	CAL ; 'ive, F	Serv Lak Page	es, Inc. ICES NATIONWIDE Te Forest, CA 92 	of	
Sample ID	Date Sampled		Finish Time 1192		Container Type: Summa Can / Tedlar	Initial Pressure <b>29</b>	Final Pressure	TO-3	TO-14	×	X 8015m	8015m Gasoline		A Helium	Summa Can #/	Comments	2 · Laboratory ID #
Relinquished by: (signature) Relinquished by: (signature) Relinquished by: (signature) Relinquished by: (signature)	Date (18/15 Date (19/15)	/ fime // Time / Time	Receive	SE d by (sig	name) Da	29 te / Time ((/(t/ 15 te / Time 	10:95		Custo Sea	dy se Is inta	of con	ttaine Turn	errs e	2	OI66 Not STD. TA		<b>D</b> Z

10-15 SIM analysis available

COCAL 145884

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SunStar Laboratories, Inc.	Page 1 of
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE	
SAMPLE RECEIVING REV	VIEW SHEET
BATCH #	
Client Name: <u>GRIBI</u> Project:	MAZ GLASS
Received by: BRIAN Date/Ti	me Received: <u>11/19/15 10:45</u>
Delivered by : Client SunStar Courier Z GSO Fe	dEx Dther
Total number of coolers received <u>o</u> Temp criteria =	= 6°C > 0°C (no <u>frozen</u> containers)
Temperature: cooler #1 <u>201</u> °C +/- the CF (-0.2°C) = <u>2010</u> °C	corrected temperature
cooler #2°C +/- the CF (- 0.2°C) =°C	corrected temperature
cooler #3°C +/- the CF (- $0.2^{\circ}$ C) =°C	corrected temperature
Samples outside temp. but received on ice, w/in 6 hours of final samp	ling. Yes No* XN/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 request	ed Yes No* N/A
Complete shipment received in good condition with correct temperature preservatives and within method specified holding times. Xes	ires, containers, labels, volumes
* Complete Non-Conformance Receiving Sheet if checked Cooler/Sar	mple Review - Initials and date <u>sculles fre</u>
Comments:	

SunStar Laboratories Inc. 25712 Commercentre Dr. Lake Forest, CA 92630 (949)297-5020 (949)297-5027 fax

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### PLEASE DO NOT WRITE ON OR PLACE LABELS ON SUMMA CANS

# SunStar Laboratories

# **Canister Data Sheet**

Client:		GRIBI	JIM_10-13-	15_8+2				•	
Shipping In:	Formation			Sampling Information					
		CHECK	Pressure	Sample	Sample	Initial	Final	Sample	Sample
Canister S	erial #	Date	(-30 +/- 2 psia)		Date	Pressure	Pressure	Start Time	Finish Time
SSAT-	0046	10/12/2015	-30	56-4	11/18	29	5	1054	1102
SSAT-	0085	10/12/2015	-30						
SSAT-	0166	10/12/2015	-30	<u>55-1</u>	1/18	298	5	1120	1123
SSAT-	0177	10/12/2015	-30	Purge	w(13				
SSAT-	0215	10/12/2015	-30						
SSAT-	0007	10/12/2015	-30	PURGE CAN					
SSAT-	0691	10/12/2015	-30	PURGE CAN					
SSAT-	0275	10/12/2015	30	NITRO CAN					
SSAT-	2040	10/12/2015		MANIFOLD (150)		4.			
SSAT-	2059	10/12/2015		MANIFOLD (150)			-		
						· · ·			
						ан сайнаан Ал	1		

PROVIDING QUALITY ANALYTICAL SERVICE	S, Inc.		RK ORDER				
Client: Gribi Associates Project: Maz Glass			Project Manager: Project Number:	 Katherine RunningCrane [none]			
Report To: Gribi Associates Jim Gribi 1090 Adam Street, Suite K Benicia, CA 94510							
Date Due: 11/30/15 15:00 (5 e	day TAT)						
Received By: Brian Charon			Date Received:	11/19/15 10:45			
Logged In By: Brian Charon			Date Logged In:	11/19/15 11:08			
Custody Seals Yes Received On Ice   Containers Intact Yes   COC/Labels Agree Yes   Preservation Confirme No	Due	ТАТ	Expires	Comments			
T152914-01 SG-4 [Air] Sampled 11/	/18/15 10:54 (GMT	-08:00) Pacifi	c Time (US				
āv.							
& 8015m Methane	11/30/15 15:00	5	11/21/15 10:54				
	11/30/15 15:00 11/30/15 15:00	5 5	11/21/15 10:54 11/23/15 10:54	+ He			
8015m Methane							
8015m Methane Fixed Gases	11/30/15 15:00	5	11/23/15 10:54	+ He BTEX only			
8015m Methane Fixed Gases TO-15	11/30/15 15:00 11/30/15 15:00 11/30/15 15:00	5 5 5	11/23/15 10:54 12/18/15 10:54 12/18/15 10:54				
8015m Methane Fixed Gases TO-15 TO-3 <b>T152914-02 SS-1 [Air] Sampled 11</b> /	11/30/15 15:00 11/30/15 15:00 11/30/15 15:00	5 5 5	11/23/15 10:54 12/18/15 10:54 12/18/15 10:54				
8015m Methane Fixed Gases TO-15 TO-3 <b>T152914-02 SS-1 [Air] Sampled 11/</b> & 8015m Methane	11/30/15 15:00 11/30/15 15:00 11/30/15 15:00 18/15 11:20 (GMT-	5 5 -08:00) Pacific	11/23/15 10:54 12/18/15 10:54 12/18/15 10:54 c Time (US				
8015m Methane Fixed Gases TO-15 TO-3 <b>T152914-02 SS-1 [Air] Sampled 11</b> / &	11/30/15 15:00 11/30/15 15:00 11/30/15 15:00 <b>18/15 11:20 (GMT</b> - 11/30/15 15:00	5 5 -08:00) Pacific 5	11/23/15 10:54 12/18/15 10:54 12/18/15 10:54 <b>c Time (US</b> 11/21/15 11:20	BTEX only			