REPORT OF OZONE REMEDIATION PILOT TEST SYSTEM INSTALLATION AND START UP

3800 San Pablo Avenue
Emeryville, California
ACDEH Fuel Leak Case: RO00002520

Prepared for:

San Pablo Avenue Venture
c/o Banker, Marks & Kirk
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October 25, 2013

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October 25, 2013

Ms. Elaine Kirk
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Oakland, CA 94612

Attention: Mr. Wei Liu

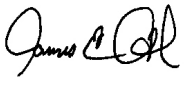
Subject: Report of Ozone Remediation Pilot Test System Installation and Startup
Report of Soil Boring and Well Installation Activities
3800 San Pablo Avenue, Emeryville, California
ACDEH Fuel Leak Case: RO00002520; Global ID: T06019788682

Ladies and Gentlemen:

Gribi Associates is pleased to submit this *Report of Ozone Remediation Pilot Test System Installation and Startup* for the underground storage tank (UST) site located at 3800 San Pablo Avenue in Emeryville, California (Site). Specific tasks conducted and reported herein included: (1) The installation and sampling of three ozone injection wells (OW-1, OW-2, and OW-3); (2) The installation of ozone delivery piping; (3) The installation of an ozone generation unit; (4) Remediation system start-up and system operational check; and (5) The monitoring of site wells in late September 2013.

We appreciate the opportunity to present this report for your review. Please call if you have any questions or require additional information.

Very truly yours,



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JEG:MAR/ct

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EXECUTIVE SUMMARY

This report documents the installation and startup of an ozone injection remediation pilot test at the site. Specific tasks conducted and reported herein included: (1) The installation and sampling of three ozone injection wells (OW-1, OW-2, and OW-3); (2) The installation of ozone delivery piping; (3) The installation of an ozone generation unit; (4) Remediation system start-up and system operational check; and (5) Post-system startup sampling of site monitoring wells.

On February 21 and 22, 2013, three ozone injection wells were drilled and installed by Gregg Drilling (C-57 No. 485165). Above ground piping, well head connections, and ozone remediation equipment were installed between September 4 and September 6, 2013. System startup was conducted on September 9, 2013. Groundwater monitoring of the project site wells was conducted on September 26, 2013.

After startup on September 9, 2013, , the system operated continuously until October 11, 2013, when an equipment malfunction required taking the equipment offline in order to repair. After repairs, the ozone injection system was restarted on Wednesday, October 23, 2013.

Groundwater samples collected on September 26, 2013, less than 3 weeks after the start of ozone remediation, showed significant reductions in groundwater hydrocarbon concentrations in two of the four Site wells. At MW-2, TPH-G and benzene concentrations dropped from 12,000 to 930 ug/L and 870 to 39 ug/L, respectively. At MW-3, TPH-G and benzene concentrations dropped from 12,000 to 5,500 ug/L and 1,400 to 190 ug/L, respectively. Groundwater hydrocarbon concentrations for samples from wells MW-1 and MW-4 were generally similar to previous results and did not show significant reductions.

Post- system startup groundwater samples showed significant reductions in hydrocarbon concentrations in a relatively short time, indicating that ozone remediation appears to be an effective technology to address subsurface soil and groundwater hydrocarbon impacts at the Site. Gribi Associates will continue to operate the remediation system and will perform Fourth Quarter 2013 groundwater monitoring and sampling at the site in December 2013.

1.0 INTRODUCTION

Gribi Associates is pleased to submit this *Report of Ozone Remediation Pilot Test System Installation and Startup* for the underground storage tank (UST) site located at 3800 San Pablo Avenue in Emeryville, California (Site) (Figure 1 and Figure 2). Specific tasks conducted and reported herein included: (1) The installation and sampling of three ozone injection wells (OW-1, OW-2, and OW-3); (2) The installation of ozone delivery piping; (3) The installation of an ozone generation unit; (4) Remediation system start-up and system operational check; and (5) Post-system startup sampling of site monitoring wells.

1.1 Scope of Work

Gribi Associates was contracted by San Pablo Avenue Venture to conduct the following scope of work.

- **Task 1** **Conduct prefield activities.**
- **Task 2** **Install three ozone injection wells.**
- **Task 3** **Install remediation equipment.**
- **Task 4** **Conduct remediation startup and monitoring**
- **Task 5** **Prepare report of findings.**

These tasks were conducted in accordance with the approved workplan and with generally accepted sampling guidelines and protocols.

1.2 Limitations

The services provided under this contract as described in this report include professional opinions and judgments based on data collected. These services have been provided according to generally accepted environmental protocol. The opinions and conclusions contained in this report are typically based on information obtained from:

1. Observations and measurements made by our field staff.
2. Contacts and discussions with regulatory agencies and others.
3. Review of available hydrogeologic data.

2.0 SITE BACKGROUND

2.1 General Site Description

The Site is located in a mixed commercial, light industrial, and residential area of southeast Emeryville near the Oakland/Emeryville city border. The Site is bordered to the south by Apgar Street, followed by the West MacArther Boulevard underpass. East from the Site is an auto repair facility, followed by residential properties. The Site is bordered on the west by the Adeline

Street and San Pablo Avenue intersection, which extends approximately 100 feet west from the Site. North from the Site are commercial and residential properties. The Site is currently used for storage.

2.2 General Site Topography and Geologic Setting

According to the USGS Oakland, West, California 7.5-Minute Quadrangle Map, the Site lies on a gently southwest-sloping plain approximately one mile east from San Francisco Bay. The elevation at the Site is approximately 40 feet above mean sea level. Based on site topography and location, we would expect groundwater flow in the site area to generally be to the west towards San Francisco Bay.

Subsurface soils at the site and in the site area generally consist of clays, with occasional thin, discontinuous silts, sands, and gravels. Groundwater at the site is generally encountered at depths below 10 feet below surface grade.

2.3 Summary of Previous Environmental Investigation Activities

The following sections describe previous underground storage tank (UST) removal and environmental investigation activities conducted at the Site.

2.3.1 UST Removal Activities

According to previous reports and records, there were previously two separate UST fueling systems on the Site. One system included two 1,000-gallon gasoline USTs and, while the exact location of these USTs is not known, these USTs were most likely located in the parking lot on the northeast side of the Site. The second system included one 1,000-gallon heating oil UST and one 550-gallon heating oil UST, both located in, and adjacent to, the Adeline Street sidewalk on the northwest property boundary.

The gasoline UST system was apparently removed in 1981, and there is no record of environmental sampling during the removal. The two heating oil USTs were removed in May 2002. One soil sample was collected beneath each of the removed USTs at a depth of approximately seven feet in depth. These soil samples showed up to 440 milligrams per kilogram (mg/kg) of Total Petroleum Hydrocarbons as Gasoline (TPH-G). The UST excavation cavities were subsequently overexcavated, and subsequent soil samples collected at approximately ten feet in depth showed relatively low levels of hydrocarbons.

2.3.2 Site Investigation Activities

In May 2007, Enviro Soil Tech Consultants (ESTC) drilled and sampled seven soil borings, B-1 through B-7, in the small parking lot on the northwest (Adeline Street) side of the Site (see Figure 2). Soil samples collected at five-foot intervals down to 20 feet in depth showed no significant hydrocarbon detections. Grab groundwater samples from borings B-2, B-4, and B-7, located on the extreme north and south sides of the parking lot, showed no significant hydrocarbon detections. Grab groundwater samples from borings B-1, B-3, B-5, and B-6, located on the middle of the parking lot from the extreme east (building) edge to the southwest (Adeline Street)

edge of the lot, showed TPH-G concentrations ranging from 4,500 micrograms per liter (ug/l) to 780,000 ug/l, and Benzene concentrations ranging from 7.5 ug/l to 6,400 ug/l. The configuration of these groundwater hydrocarbon detections seemed to point to a southwest aligned groundwater hydrocarbon plume that originated northeast of the small Adeline Street parking lot itself. This conclusion of a northeasterly source was bolstered by the lack of soil hydrocarbon detections or field evidence of shallow soil impacts in the seven soil borings.

In December 2011, Gribi Associates drilled and sampled seven investigative borings, B-8 through B-14, on the site (*Report of Soil and Groundwater Investigation and Workplan to Conduct Additional Investigation Activities, 3899 San Pablo Avenue, Emeryville, California*, Gribi Associates, January 26, 2012). Soils encountered in the borings generally consisted of clays, with relatively thin discontinuous silty and clayey gravels and sands present in some of the borings. Soil and grab groundwater samples from the seven borings were analyzed for both gasoline- and diesel-range hydrocarbons. Very low concentrations (below 50 milligrams per kilogram, mg/kg) of diesel-range hydrocarbons were encountered in soil samples below ten feet in depth in borings B-8 and B-11. Very low concentrations (below 5 mg/kg) of gasoline-range hydrocarbons were encountered in soil samples below ten feet in depth in borings B-8, B-12, B-13, and B-14. Low concentrations of gasoline-range hydrocarbons, with no BTEX constituents, were encountered in grab groundwater samples from B-8 and B-14. Moderate levels of gasoline-range hydrocarbons were encountered in grab groundwater samples from borings B-12 and B-13. Results of this investigation indicated that the previously-identified groundwater hydrocarbon plume beneath the Adeline Street parking lot is localized and did not originate from elsewhere on the Site. Further, it appeared that the source, or sources, of the groundwater hydrocarbon impacts in the Adeline Street parking lot are either the former USTs in the Adeline Street sidewalk (removed in 2002) or perhaps fuel dispensers associated with these former USTs. The report for this investigation included a workplan to: (1) The installation and monitoring of four groundwater monitoring wells in the Adeline Street parking lot; (2) The drilling and sampling of three soil borings on the west side of San Pablo Avenue, approximately 120 feet southwest from the Adeline Street parking lot.

Based on telephone and email correspondences with Mr. Mark Detterman of Alameda County Department of Environmental Health (ACEH), Gribi Associates submitted an amended investigative workplan for the Site in March 2012 (*Amended Workplan to Conduct Additional Investigation Activities, 3899 San Pablo Avenue, Emeryville, California*, Gribi Associates, March 6, 2012). This amended workplan provides results of preliminary Phase I environmental site assessment (ESA) activities and proposes additional investigative activities for the Site. Preliminary Phase I ESA activities included a review of historical Sanborn Maps, a city directories abstract, aerial photos, and City of Emeryville records for the Site and site vicinity. Results of the historical records review indicate the following relative to Site history and environmental conditions.

- The current Site building was constructed between 1911 and 1939, and was occupied by a GMC truck sales and repair facility from at least 1950 to 1980.

- A former gasoline dispenser kiosk, labeled as ñGas & Oilò was present in the small Adeline Street parking lot directly adjacent to the site building (where the current front door to the building is located). The ñGas & Oilò label is the standard designation on Sanborn Maps for a gas station or gasoline fueling facility. Note that it is possible that the

fuel dispenser island extended inside the Site building, immediately adjacent to the outside kiosk.

- The south wing of the GMC truck facility was apparently not used for truck repair activities, but rather was used for offices, parts department, and body shop.

- While the GMC truck facility was present, the southeast yard, adjacent to Apgar Street, was either not part of the facility (residences) or was used for truck parking. The northeast yard area, adjacent to 39th Street, extended further east to include the current adjacent auto repair facility and was apparently used for storage and auto painting.

- A possible dry cleaners (National French Laundry, Industrial Coat & Apron Supply, and Red Star Industrial Service Laundry) was apparently present at 1033 39th Street, approximately 150 feet northeast from the Site, from the 1920s to the 1960s.

Historical features most relevant to the currently environmental conditions on the Site include the following.

(1) The former dispenser kiosk, located adjacent to the site building in the Adeline Street parking lot, was undoubtedly the main source for the groundwater hydrocarbon plume identified in the parking lot;

(2) The southeast yard in the back of the building, adjacent to Apgar Street, was used either for residential housing or for truck parking, and does not appear to have been a suspect area relative to hydrocarbon releases on the Site; and

(3) The northeast yard in the back of the building, adjacent to 39th Street, was used as part of the truck repair operation, and, based on review of historical aerial photos and Sanborn Maps and on recollections from the site owners, it is likely that the former 1,000-gallon gasoline USTs removed in 1981 were located in the northeast yard area.

In order to address investigative data gaps, the amended workplan proposed the installation and sampling of four groundwater monitoring wells and the drilling and sampling of approximately eight onsite and offsite soil borings. This amended workplan replaced the January 26, 2012 workplan. The goal of the investigation was to complete site investigative activities as necessary to develop a Conceptual Site Model and Corrective Action Plan for the Site.

In May 2012, nine investigative borings (B-15 through B-23) were drilled and four groundwater monitoring wells (MW-1 through MW-4) were installed at the Site. Both field and laboratory analytical results from this investigation indicate a relatively small, concentrated, predominately groundwater only, gasoline-range hydrocarbon plume present beneath the Adeline Street parking lot. The report for this investigation included a Conceptual Site Model and a workplan to conduct interim remedial measures (IRMs) for the Site. The IRM workplan proposed the drilling and sampling of additional borings and the implementation of an ozone injection pilot test on the Site. This workplan was conditionally approved on November 16, 2012.

2.0 DESCRIPTION OF FIELD ACTIVITIES

On February 21 and 22, 2013, three ozone injection wells were drilled and installed by Gregg Drilling (C-57 No. 485165). Above ground piping, well head connections, and ozone remediation equipment were installed between September 4 and September 6, 2013. System startup was conducted on September 9, 2013. Groundwater monitoring of the project site wells was conducted on September 26, 2013.

All activities were conducted in accordance with applicable guidelines and statutes.

2.1 Installation of Ozone Injection and Groundwater Monitoring Wells

2.1.1 Pre-Field Activities

Prior to beginning drilling activities, appropriate permits were obtained Alameda County Department of Public Works. Copies of these permits are provided in Appendix A.

Prior to beginning drilling activities, proposed well locations were marked with white paint, and Underground Services Alert was notified more than 48 hours prior to drilling. In addition, prior to beginning field activities, a subsurface utility locator conducted an underground utilities survey to attempt to clear proposed drilling locations. Prior to beginning field activities, a Site Safety Plan was issued to the drilling crew, and a tailgate safety meeting was conducted.

2.1.2 Location of Injection Wells

Locations of ozone injection wells OW-1, OW-2, and OW-3 are shown on Figure 3. The ozone injection wells were sited in the previously-identified groundwater hydrocarbon plume area in the Adeline Street parking lot. These wells were spaced in order to provide optimal coverage for the injection of ozone throughout the groundwater hydrocarbon plume.

2.1.3 Drilling and Installation of Wells

Ozone injection wells OW-1, OW-2, and OW-3 were drilled to approximately 28 feet in depth using both direct-push coring tools (for lithologic logging and soil sampling) and hollow stem auger equipment (well installation activities). Soils were first cored, logged and sampled using direct-push coring equipment as described in the previous section of this report. The soil boring logs for these wells are included in Appendix B. During coring and sampling activities, all sampling equipment were thoroughly cleaned and decontaminated between each sample collection by triple rinsing as described previously in this report.

The three ozone injection wells were installed using hollow stem auger equipment and were constructed using 3/4-inch diameter Schedule 80 threaded PVC casing. Each of the three wells was installed according to the following general specifications: (1) The well boring was drilled to approximately 28 feet in depth; (2) A one foot long microporous silica-bonded diffuser was placed at or near the base of the well boring; (3) As the hollow stem augers were removed slowly, filter sand was placed around the well casing to approximately 21 feet in depth; (4) A three-foot bentonite seal was placed above the filter sand using time release bentonite pellets; and (5) The

remaining annulus was grouted using a cement/sand slurry (bentonite less than 5 percent) to approximate surface grade. The top of the well was enclosed in a traffic-rated locking box set in concrete slightly above grade. Well construction details are summarized on the boring logs in Appendix B. All downhole drilling equipment, including auger and drill bit, was steam cleaned before and after drilling the well boring. All soil cuttings and steam cleaning rinseate were contained in sealed drums pending laboratory results.

2.1.4 Laboratory Analysis of Soil Samples

A total of 8 soil samples and 8 groundwater samples were analyzed for the following parameters:

USEPA 8260 Total Petroleum Hydrocarbons as Gasoline (TPH-G)
USEPA 8260 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
USEPA 8260 Oxygenates (TBA, MTBE, DIPE, ETBE, TAME, 1,2-DCA, EDB, and Ethanol

In addition, two groundwater samples were analyzed for the following parameters:

USEPA E218.6 Hexavalent Chromium
USEPA E 300.1 Bromate

All samples were analyzed by a California State-certified analytical laboratory, with standard turn around time on results.

2.2 Installation of Remediation Equipment

Installation of ozone delivery piping and equipment was conducted between September 4 and 6, 2013. A brief description of these activities is provided in the following sections of this report.

2.2.1 Installation of Below-Ground Ozone Delivery Piping

Ozone delivery tubing, consisting of 3/8-inch inside diameter synthetic flexible tubing, was installed from each injection well to the equipment compound on the northwest corner of the site. The approximate locations of the delivery piping runs are shown on Figure 4. The tubing was placed inside 3/4-inch Schedule 40 PVC pipe. The PVC pipe (containing the tubing) was run above ground, and protected by running within rubber speed bumps.

2.2.2 Installation of Remediation Equipment

The ozone generation equipment consists of a 110-volt 30 grams per hour ozone injection unit made by McClain Ozone in Napa, California. The unit includes an oxygen concentrator, ozone generator, compressors, programmable logic controller (PLC), and valves. This unit supplies an ozone/air mixture under pressure to the three individual injection wells according to a set timed sequence. This unit included an ozone detector with automatic shut off in the event of an ozone leak. This unit is contained in an enclosed trailer and located in the southeast corner of the parking lot along Adeline Street.

2.3 Remediation Equipment Startup and Operation

Remediation equipment start up commenced on Monday, September 9, 2013. The ozone injection system was programmed to sequentially cycle through 5-minute per well injection intervals, resulting in sequential cycles of 15 minutes of ozone injection. During the system startup phase, Gribi personnel visited the site weekly or semi-weekly to ensure that the system was operating optimally. Each visit included a general check of system integrity, as well as monitoring for volatile organic compounds (VOCs) and ozone vapors in surrounding monitoring wells using field instruments.

After startup on September 9, 2013, , the system operated continuously until October 11, 2013, when an equipment malfunction required taking the equipment offline in order to repair. After repairs, the ozone injection system was restarted on Wednesday, October 23, 2013.

2.5 Groundwater Monitoring Activities

Groundwater monitoring and sampling of all site wells was conducted before and after system startup as part of the scheduled quarterly groundwater monitoring and sampling program for the Site. at the project site. Pre- system startup groundwater sampling was conducted on June 4, 2013 as part of the Second Quarter 2013 groundwater monitoring and sampling event. Post-system startup groundwater sampling was conducted on September 26, 2013 as part of the Third Quarter 2013 groundwater monitoring and sampling event. Both sampling are described in detail in separate reports. During each sampling event, groundwater samples from site wells were analyzed for for TPH-G, BTEX, and Oxygenates constituents. In addition, groundwater samples from the post- system startup were also analyzed for hexavalent chromium and bromate

3.0 RESULTS OF OZONE INJECTION REMEDIATION ACTIVITIES

3.1 Results of Well Installation Activities

3.1.1 General Subsurface Conditions

Soil boring logs for the three ozone injection wells are contained in Appendix B. Soils encountered in the borings generally consisted of clays, with relatively thin discontinuous silts and occasional clayey gravels and sands present in some of the borings below 20 feet in depth. Water-saturated soils were generally encountered in silt- and clay-dominated soils below 15 feet in depth, and rose slowly in the borings to approximately 14 feet in depth.

Slight to occasionally moderate hydrocarbon odors were encountered in relatively thin soil intervals in all wells. In OW-2, slight to moderate hydrocarbon odors (with PID readings of approximately 40) were encountered in clay soils between approximately seven and 16 feet in depth. Also, moderate hydrocarbon odors (with a PID reading of 148) were noted in clay soils between approximately six feet and 10 feet in depth in B-27. In addition, moderate hydrocarbon odors (with a PID reading of 28) were noted in a thin sand zone at 15 to 16 feet in depth in B-28. Slight to moderate hydrocarbon odors and staining were noted in sands from approximately 15 feet to 18 feet in depth in the injection and monitoring well borings.

3.1.2 Laboratory Analytical Results

Soil and groundwater laboratory analytical results are summarized in Table 1 and 2 , and on Figure 4 and 5. The laboratory data reports and chain of custody records are contained in Appendix C.

3.2 Results of Ozone Injection Remediation System Operation

The ozone remediation was started on September 9, 2013 and ran continuously until October 11, 2013, at which time equipment malfunction required taking the system offline for repair. The ozone system was restarted on October 23, 2013.

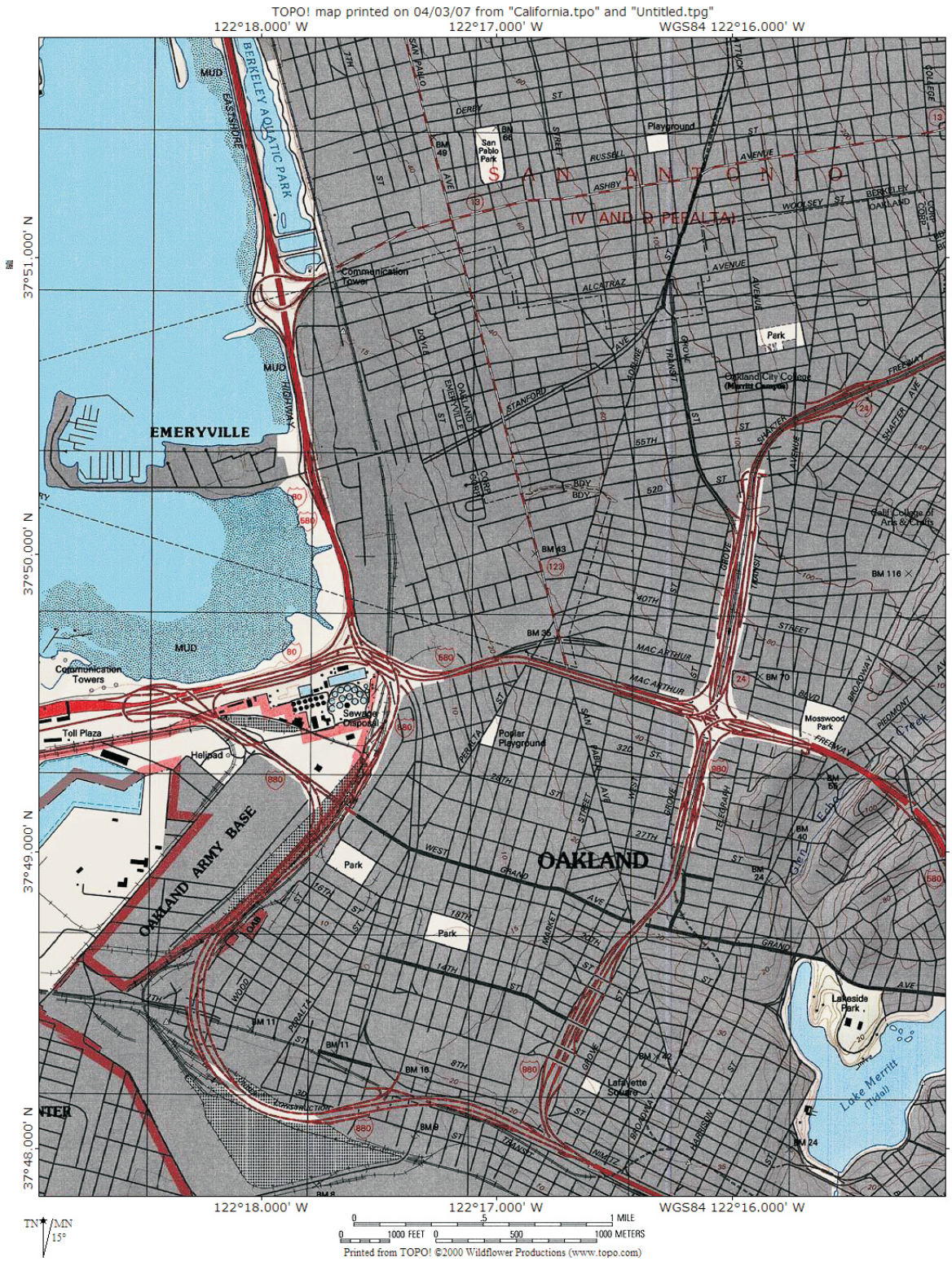
3.3 Results of Groundwater Monitoring Activities

Groundwater samples collected on September 26, 2013, less than 3 weeks after the start of ozone remediation, showed significant reductions in groundwater hydrocarbon concentrations in two of the four Site wells. At MW-2, TPH-G and benzene concentrations dropped from 12,000 to 930 ug/L and 870 to 39 ug/L, respectively. At MW-3, TPH-G and benzene concentrations dropped from 12,000 to 5,500 ug/L and 1,400 to 190 ug/L, respectively. Groundwater hydrocarbon concentrations for samples from wells MW-1 and MW-4 were generally similar to previous results and did not show significant reductions.

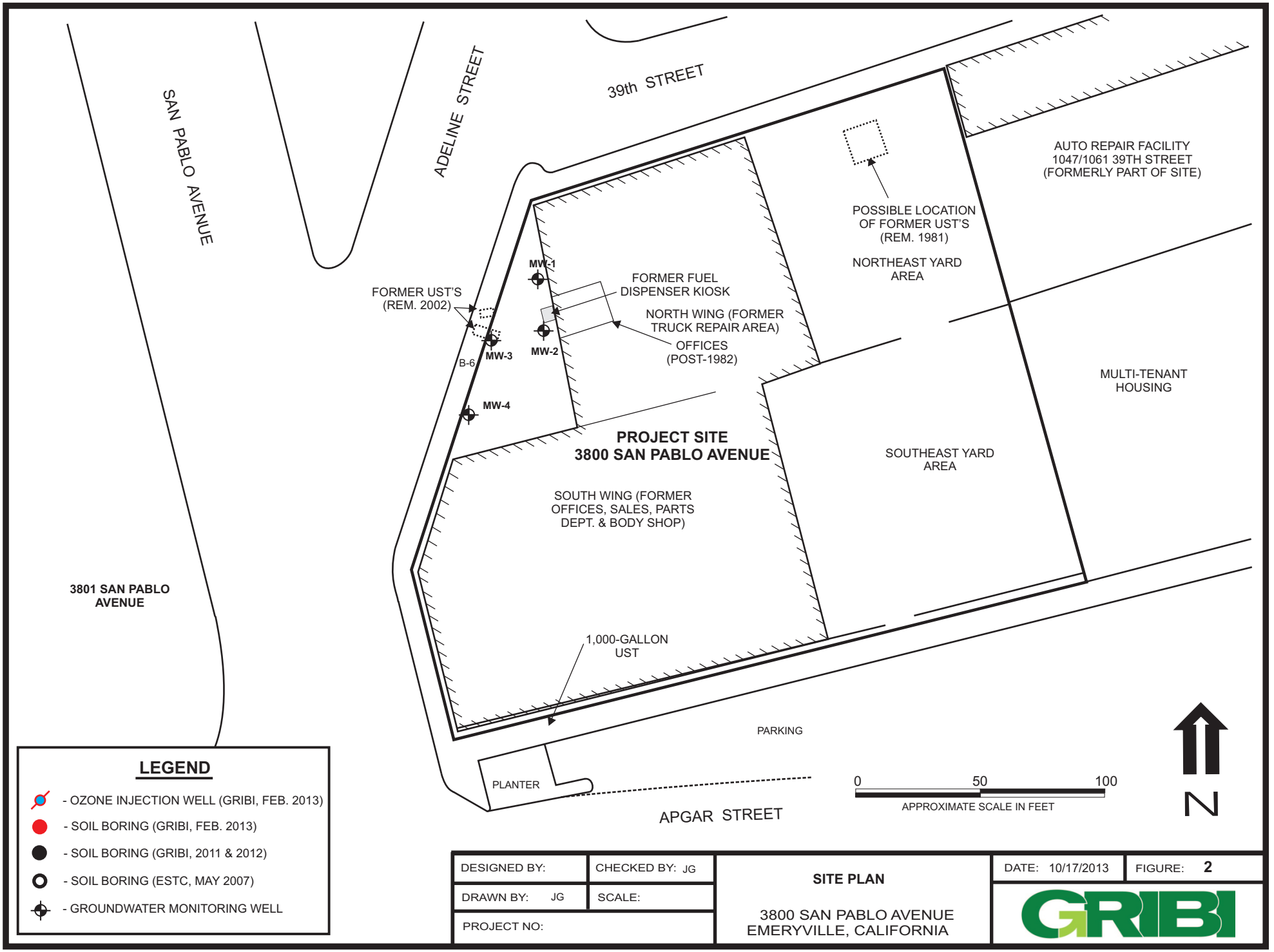
4.0 CONCLUSIONS

Post- system startup groundwater samples after a relatively short time of ozone system operation, showed significant reductions in hydrocarbon concentrations two of the four monitoring wells. These results demonstrate that ozone remediation appears to be an effective technology to address subsurface soil and groundwater hydrocarbon impacts at the Site. Gribi Associates will continue to operate the remediation system and will perform Fourth Quarter 2013 groundwater monitoring and sampling at the site in December.

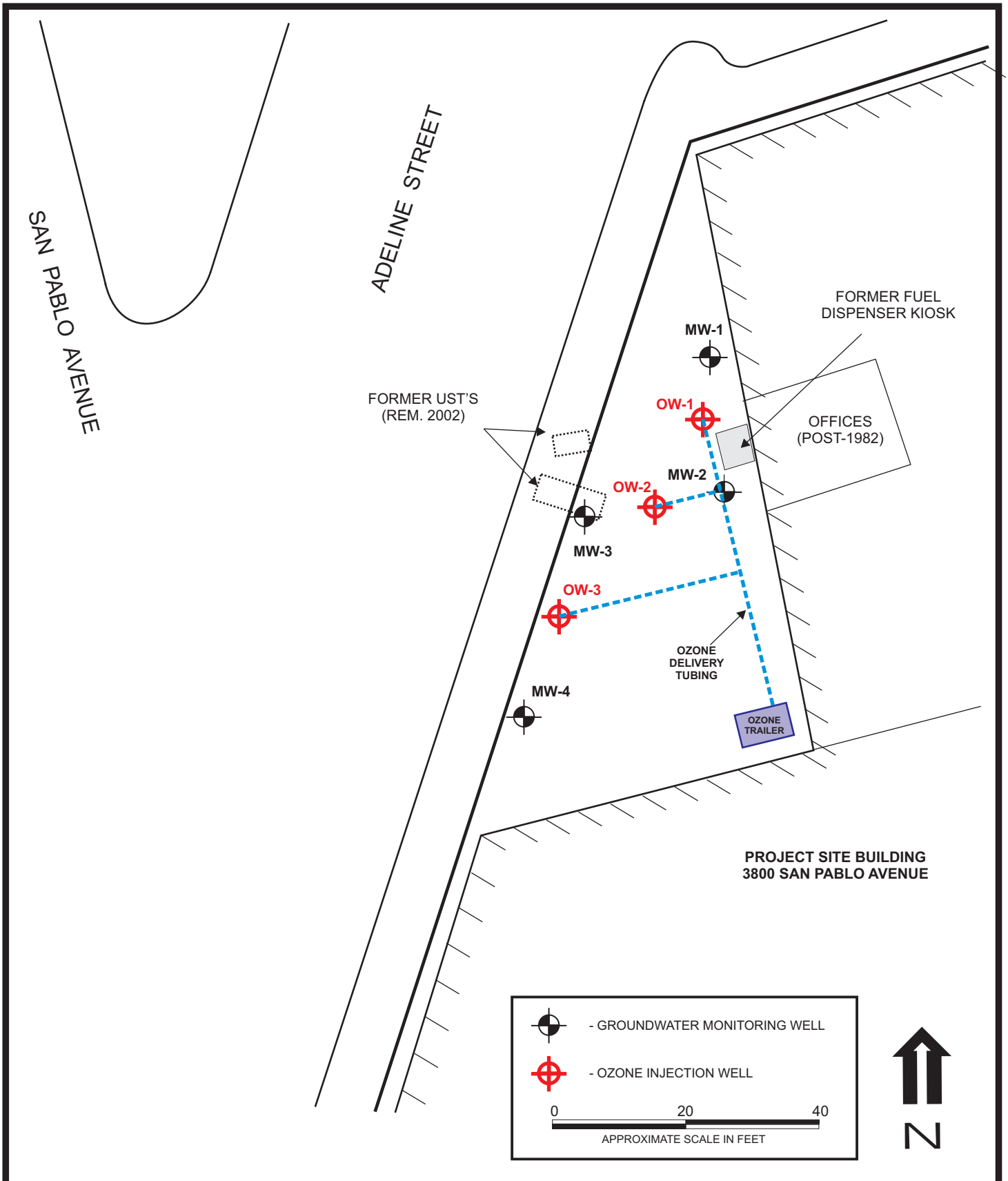
FIGURES



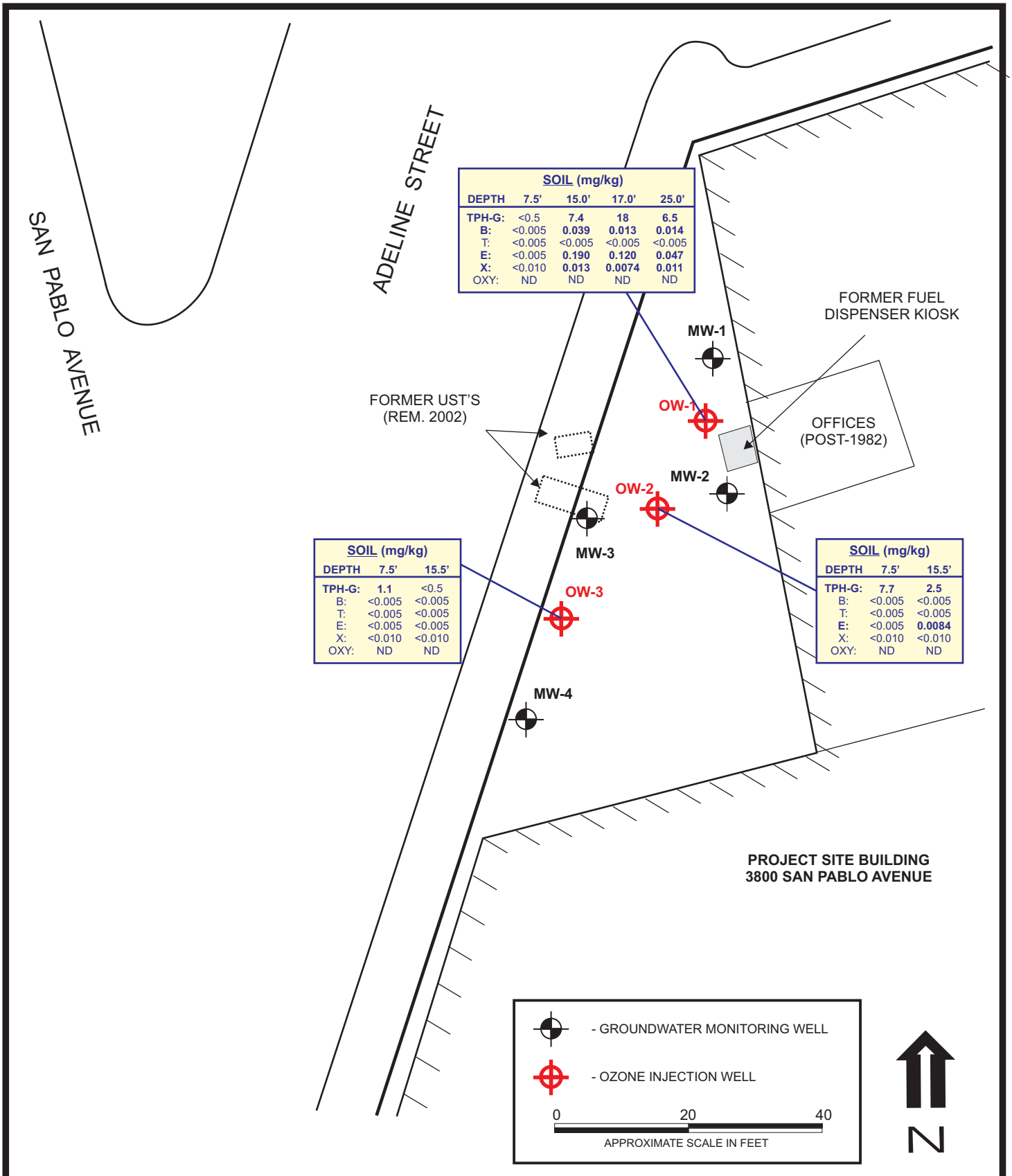
DESIGNED BY:	CHECKED BY:	**SITE VICINITY MAP**	DATE: 10/17/2013	FIGURE: **1**
DRAWN BY: JG	SCALE:			
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



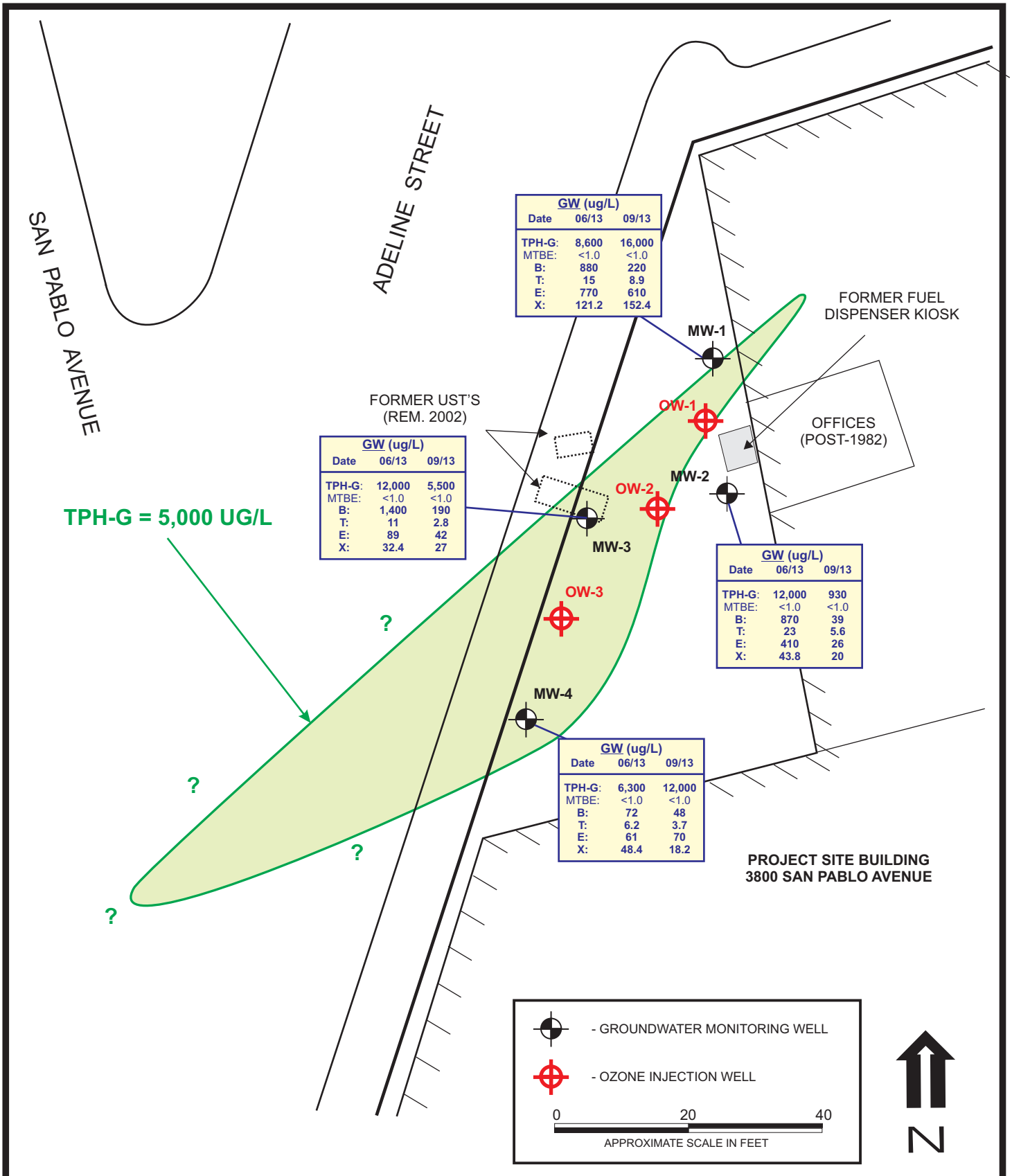
DESIGNED BY:	CHECKED BY: JG	SITE PLAN	DATE: 10/17/2013
DRAWN BY: JG	SCALE:	3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA	FIGURE: 2
PROJECT NO:			GRIBI



DESIGNED BY:	CHECKED BY:	**OZONE INJECTION WELL LOCATIONS AND SYSTEM LAYOUT** 3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA	DATE: 10/17/2013	FIGURE: **3**
DRAWN BY: JG	SCALE:			GRIBI
PROJECT NO:				



DESIGNED BY:	CHECKED BY:	**SOIL HYDROCARBON RESULTS**	DATE: 10/17/2013	FIGURE: **4**
DRAWN BY: JG	SCALE:			
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



DESIGNED BY:	CHECKED BY:	**GROUNDWATER HYDROCARBON CONCENTRATIONS - PRE- AND POST- STARTUP** 3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA	DATE: 10/17/2013	FIGURE: **5**
DRAWN BY: JG	SCALE:			GRIBI
PROJECT NO:				

TABLES

Table 1
SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS
Former Maz Glass UST Site
3800 San Pablo Avenue, Emeryville, California

Sample ID	Sample Matrix	Sample Depth	TPH-G	B	T	E	X	OXY
OW-1-7.5	Soil	7.5 feet	<0.5	<0.005	<0.005	<0.005	<0.010	All ND
OW-1-15.0	Soil	15.0 feet	**7.4**	**0.039**	<0.005	**0.190**	**0.013**	All ND
OW-1-17.0	Soil	17.0 feet	**18.0**	**0.013**	<0.005	**0.120**	**0.0074**	All ND
OW-1-25.0	Soil	25.0 feet	**6.5**	**0.014**	<0.005	**0.047**	**0.011**	All ND
OW-2-7.5	Soil	7.5 feet	**7.7**	<0.005	<0.005	<0.005	<0.010	NA
OW-2-15.5	Soil	15.5 feet	**2.5**	<0.005	<0.005	**0.0084**	<0.010	NA
OW-3-7.5	Soil	7.5 feet	**1.1**	<0.005	<0.005	<0.005	<0.010	NA
OW-3-15.5	Soil	15.5 feet	<0.5	<0.005	<0.005	<0.005	<0.010	NA

Table Notes:

TPH-D/MO = Total petroleum hydrocarbons as diesel/motor oil
TPH-G = Total petroleum hydrocarbons as gasoline
OXY = Oxygenates, including Ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Methyl Tertiary Butyl Ether (MTBE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME)
NA = Not analyzed for this analyte.

<0.5 = Not detected above the expressed detection level.
ND = Not detected above laboratory detection limits
All ND = No detectable concentrations of full list of constituentsESL = Environmental Screening Levels, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, May 2008.

Table 2
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*	*Other*
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	--	**Naph = 75**
	06/04/13	9.39	29.57	**8,600**	**880**	**15**	**770**	**121.2**	All ND	--	**Naph = 74**
	9/26/13	10.38	28.58	**16,000**	**220**	**8.9**	**610**	**152.4**	All ND	<0.20 / **0.091**	**Naph = 120**
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	--	**Naph = 29**
	06/04/13	9.86	29.10	**12,000**	**870**	**23**	**410**	**43.8**	All ND	--	**Naph = 46**
	09/26/13	13.32	25.64	**930**	**39**	**5.6**	**26**	**20**	All ND	**1.1** / **0.090**	**Naph = 13**
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	--	**Naph = 8.4**
	06/04/13	9.49	29.35	**12,000**	**1,400**	**11**	**89**	**32.4**	All ND	--	**Naph = 13**
	09/26/13	10.89	27.95	**5,500**	**190**	**2.8**	**42**	**27**	All ND	<0.20 / **0.096**	**Naph = 18**
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	--	**Naph = 7.1**
	06/04/13	8.73	29.75	**6,300**	**72**	**6.2**	**61**	**48.4**	All ND	--	**Naph = 12**
	09/26/13	9.76	28.72	**12,000**	**48**	**3.7**	**70**	**18.2**	All ND	<0.20 / **0.056**	**Naph = 13**

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).
Other = Lead scavengers 12-EDB and 1,2-DCA, and SVOCs.
<38.96> = Top of casing mean sea level elevation (Virgil Chavez Land Survey).
<0.50 = Not detected above the expressed value.
Hex Chrome = Hexavalent Chromium
Naph = Naphthalene.

APPENDIX A

REGULATORY PERMITS

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 12/12/2012 By jamesy

Permit Numbers: W2012-0846 to W2012-0847
Permits Valid from 01/09/2013 to 01/11/2013

Application Id: 1355254284054
City of Project Site: Emeryville
Site Location: 3800 San Pablo Avenue, Emeryville, CA
Project Start Date: 01/09/2013
Completion Date: 01/11/2013

Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Applicant: Gribi - James Gribi
1090 Adams St, Ste K, Benecia, CA 94510
Phone: 707-748-7743

Property Owner: Banker, Marks & Kirk
1721 Broadway, Suite 202, Oakland, CA 94612
Phone: 510-271-0600

Client: ** same as Property Owner **

Total Due: $530.00
Receipt Number: WR2012-0395 **Total Amount Paid:** $530.00
Payer Name : Gribi Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Remediation Well Construction-Injection - 3 Wells
Driller: Gregg Drilling - Lic #: 485165 - Method: hstem **Work Total: $265.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2012-0846	12/12/2012	04/09/2013	OW1	8.00 in.	0.75 in.	23.00 ft	26.00 ft
W2012-0846	12/12/2012	04/09/2013	OW2	8.00 in.	0.75 in.	23.00 ft	26.00 ft
W2012-0846	12/12/2012	04/09/2013	OW3	8.00 in.	0.75 in.	23.00 ft	26.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

APPENDIX B

WELL BORING LOGS

LOG OF SOIL BORING

BORING NUMBER : **OW-1**

BORING LOCATION:
ADELINE STREET PARKING LOT

BORING TYPE: SOIL BORING

PROJECT NAME: FORMER MAZ GLASS SITE
EMERYVILLE, CALIFORNIA

FIELD SCIENTIST: J. GRIBI
M. ROSMAN

GRIBI ASSOCIATES

START DATE: 02/22/2013

COMPLETION DATE: 02/22/2013

DRILLING CONTRACTOR: GREGG DRILLING, INC.

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

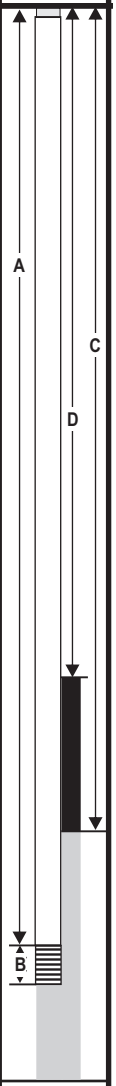
COMPLETION METHOD: WELL

BORING TOTAL DEPTH: 28.0 FEET

GROUNDWATER DEPTH: NOT MEASURED

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL
						0.0 - 1.0 ft. Concrete & base gravel.
					CL	1.0 - 4.0 ft. **Silty Clay (CL)** Dark grey, firm, dense, moist, no hydrocarbon odors or staining.
5					CL	4.0 - 6.0 ft. **Silty Clay (CL)** Grey brown, firm, dense, moist, no hydrocarbon odors or staining.
	OW-1-7.5 8:25	7.5 FT.		3	CL	6.0 - 9.5 ft. **Clay (CL)** Olive grey, slightly silty, firm, moist, dense, slight to moderate hydrocarbon odor.
10					CL	9.5 - 11.5 ft. **Clayey Gravel/Gravelly Clay (CL)** Grey brown, firm, sub-rounded clasts to 2", moist, no hydrocarbon odors or staining.
					CL	11.5 - 15.0 ft. **Clay (CL)** Grey brown, dense, moist, no odors or staining.
15	OW-1-15.0 8:35	15.0 FT.		36		15.0 - 16.5 ft. **Gravelly Clay (CL)** Grey to grey brown, moist, dense, no odors or staining.
	OW-1-17.0 8:45	17.0 FT.		26	ML	16.5 -23.0 ft. **Silt (ML)** Grey-brown (top) to brown, soft to firm, moist to wet, slight to moderate (top) hydrocarbon odor.
20						
					CL	23.0 -24.5 ft. **Silty Clay (CL)** Brown, firm, dense, moist, no odor or staining.
25	OW-1-25.0 9:00	25.0 FT.		41	ML	24.5 -27.0 ft. **Silty Sand (SM)/Sandy Silt (ML)** Brown, Soft, moist to wet, Slightly hydrocarbon odor.
					ML	27.0 -28.0 ft. **Clayey Silt (ML)** Brown, moist, firm, no odor or staining.
30						TOTAL DEPTH: 28.0 FEET

WELL INSTALLATION & CONSTRUCTION



WELL SPECIFICATIONS

A - WELL DIFFUSER DEPTH: 24.50 FT
B - WELL DIFFUSER LENGTH: 1.00 FT
C - DEPTH TO TOP OF SAND: 21.40 FT
D - DEPTH TO TOP OF BENTONITE SEAL: 17.50 FT

CASING TYPE: SCH 40 PVC
CASING SIZE: 0.75 INCHES

LOG OF SOIL BORING

BORING NUMBER : **OW-2**

BORING LOCATION:
ADELINE STREET PARKING LOT

BORING TYPE: SOIL BORING

PROJECT NAME: FORMER MAZ GLASS SITE
EMERYVILLE, CALIFORNIA

FIELD SCIENTIST: J. GRIBI
M. ROSMAN

GRIBI ASSOCIATES

START DATE: 02/22/2013

COMPLETION DATE: 02/22/2013

DRILLING CONTRACTOR: GREGG DRILLING, INC.

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

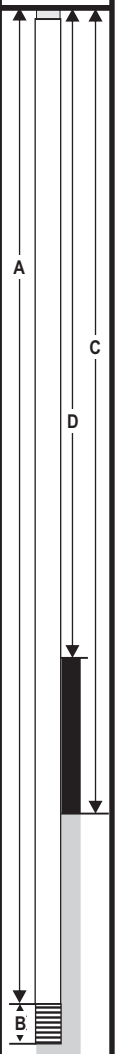
COMPLETION METHOD: WELL

BORING TOTAL DEPTH: 28.0 FEET

GROUNDWATER DEPTH: NOT MEASURED

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL
						0.0 - 1.5 ft. Concrete & base rock.
					ML	1.5 - 5.0 ft. **Clayey Silt (ML)** Dark grey, firm, moist, no odor or staining.
5					ML	5.0 - 6.5 ft. **Clayey Silt (ML)** Dark grey, moist
	OW-2-7.5 11:05	7.5 FT.		42	CL	6.5 - 10.0 ft. **Silty Clay (CL)** Grey, moist, stiff, hydrocarbon odor.
10					CL	10.0 - 15.5 ft. **Silty Clay (CL)** Brown w/grey mottling, hydrocarbon odor, stiff to very stiff.
15	OW-2-15.5 11:20	15.5 FT.		38	CL	15.5 - 16.0 ft. **Gravelly Clay (CL)** Brown, hard, hydrocarbon odor.
					CL	16.0 - 20.0 ft. **Silty Clay (CL) to Clayey Silt (ML)** Minimal recovery, slightly sandy to very fine grain, slight hydrocarbon odor.
20					CL	20.0 -21.0 ft. **Silty Clay (CL)** Brown, stiff, slight hydrocarbon odor.
					ML	21.0 -27.0 ft. **Clayey Silt (ML)** Brown, wet, soft to medium stiff, slightly sandy, very fine grain.
25					SP	27.0 -28.0 ft. **Sand (SP)** Brown, very fine to fine grain, wet, slight hydrocarbon odor.
30						TOTAL DEPTH: 28.0 FEET

WELL INSTALLATION & CONSTRUCTION



WELL SPECIFICATIONS

A - WELL DIFFUSER DEPTH: 26.00 FT
B - WELL DIFFUSER LENGTH: 1.00 FT
C - DEPTH TO TOP OF SAND: 21.00 FT
D - DEPTH TO TOP OF BENTONITE SEAL: 17.00 FT

CASING TYPE: SCH 40 PVC
CASING SIZE: 0.75 INCHES

LOG OF SOIL BORING

BORING NUMBER : **OW-3**

BORING LOCATION:
ADELINE STREET PARKING LOT

BORING TYPE: SOIL BORING

PROJECT NAME: FORMER MAZ GLASS SITE
EMERYVILLE, CALIFORNIA

FIELD SCIENTIST: J. GRIBI
M. ROSMAN

GRIBI ASSOCIATES

START DATE: 02/22/2013

COMPLETION DATE: 02/22/2013

DRILLING CONTRACTOR: GREGG DRILLING, INC.

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

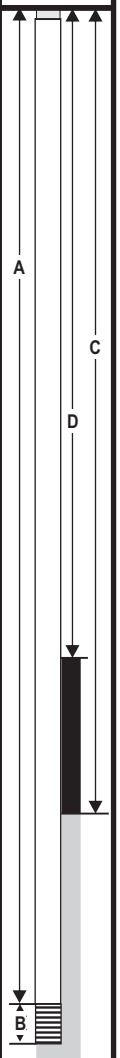
COMPLETION METHOD: WELL

BORING TOTAL DEPTH: 28.0 FEET

GROUNDWATER DEPTH: NOT MEASURED

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL
0					CL	0 - 5.0 ft. **Silty Clay (CL)** Grey
5					ML	5.0 - 10.0 ft. **Clayey Silt (ML)** Grey, slightly moist, none to slight hydrocarbon odor
	OW-3-7.5 13:40	7.5 FT.		12		
10					CL	10.0 - 15.5 ft. **Silty Clay (CL)** Brown mottled grey, moist, very stiff, slight hydrocarbon odor.
15	OW-3-15.5 13:50	15.5 FT.		22	CL	15.5 - 16.0 ft. **Sandy Clay (CL)** Brown, fine coarse sand, hydrocarbon odor.
					CL	16.0 - 21.0 ft. **Silty Clay (CL)** Brown, moist to wet, medium stiff, slightly sandy to very fine grain, slight hydrocarbon odor.
20					ML	21.0 -26.0 ft. **Clayey Silt (ML)** Brown, moist to wet, slightly sandy to very fine grain. soft, slight hydrocarbon odor.
25					CL	26.0 -27.5 ft. **Silty Clay (CL)**
					SP	27.5 -28.0 ft. **Sand (SP)**
30						TOTAL DEPTH: 28.0 FEET

WELL INSTALLATION & CONSTRUCTION



WELL SPECIFICATIONS

A - WELL DIFFUSER DEPTH: 26.00 FT
B - WELL DIFFUSER LENGTH: 1.00 FT
C - DEPTH TO TOP OF SAND: 21.00 FT
D - DEPTH TO TOP OF BENTONITE SEAL: 17.00 FT

CASING TYPE: SCH 40 PVC
CASING SIZE: 0.75 INCHES

APPENDIX C

LABORATORY DATA REPORTS AND CHAIN-OF-CUSTODY RECORD

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

05 March 2013

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 02/23/13 10:38. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
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	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	03/05/13 14:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-27-7.0	T130428-01	Soil	02/21/13 14:10	02/23/13 10:38
B-27-15.5	T130428-02	Soil	02/21/13 14:20	02/23/13 10:38
B-27-W	T130428-03	Water	02/22/13 08:15	02/23/13 10:38
B-24-9.0	T130428-04	Soil	02/21/13 12:00	02/23/13 10:38
B-24-15.0	T130428-05	Soil	02/21/13 12:15	02/23/13 10:38
B-28-7.5	T130428-06	Soil	02/21/13 09:15	02/23/13 10:38
B-28-15.5	T130428-07	Soil	02/21/13 09:30	02/23/13 10:38
B-28-W	T130428-08	Water	02/22/13 10:00	02/23/13 10:38
B-24-W	T130428-09	Water	02/22/13 08:40	02/23/13 10:38
OW-1-7.5	T130428-10	Soil	02/22/13 08:25	02/23/13 10:38
OW-1-15.0	T130428-11	Soil	02/22/13 08:34	02/23/13 10:38
OW-1-17.0	T130428-12	Soil	02/22/13 08:45	02/23/13 10:38
OW-1-25.0	T130428-13	Soil	02/22/13 09:00	02/23/13 10:38

SunStar Laboratories, Inc.

Daniel Chavez, 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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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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	03/05/13 14:37

B-27-7.0

T130428-01 Soil

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	3030109	03/01/13	03/02/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 GRO	**25000**	500	"	"	"	"	"	"	
Surrogate Toluene-d8		*1*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1 9*		*81.2-123*					
Surrogate Dibromofluoromethane		*112*		*9 . -13*					

SunStar Laboratories, Inc.

Daniel Chavez, Project Manager

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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	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	03/05/13 14:37

B-27-15.5

T130428-02 Soil

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**5.6**	5.0	ug/kg	1	3030109	03/01/13	03/02/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**120**	5.0	"	"	"	"	"	"	
m,p-Xylene	**8.0**	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 GRO	**4400**	500	"	"	"	"	"	"	
Surrogate Toluene-d8		*98.*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1*		*81.2-123*					
Surrogate Dibromofluoromethane		*1*		*9 . -13*					

SunStar Laboratories, Inc.

Daniel J Chávez

Daniel Chavez, Project Manager

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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	03/05/13 14:37

B-27-W

T130428-03 Water

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**1100**	10	ug/l	20	3022738	02/27/13	02/28/13	EPA 8260B	
Toluene	**99**	0.50	"	1	"	"	"	"	
Ethylbenzene	**1500**	10	"	20	"	"	"	"	
m,p-Xylene	**1100**	20	"	"	"	"	"	"	
o-Xylene	**69**	0.50	"	1	"	"	"	"	
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	**7900**	50	"	"	"	"	"	"	
Surrogate Toluene-d8		*1 4*		*88.8-11*					
Surrogate 4-Bromofluorobenzene		*1*		*83. -119*					
Surrogate Dibromofluoromethane		*119*		*81.1-13*					

SunStar Laboratories, Inc.

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Daniel Chavez, 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	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	03/05/13 14:37

B-24-9.0

T130428-04 Soil

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	3030109	03/01/13	03/02/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate Toluene-d8		*9 .4*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1*		*81.2-123*					
Surrogate Dibromofluoromethane		*1 2*		*9 . -13*					

SunStar Laboratories, Inc.

Daniel J Chavez

Daniel Chavez, Project Manager

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949.297.5020 Phone
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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	03/05/13 14:37

B-24-15.0

T130428-05 Soil

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	3030109	03/01/13	03/02/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 GRO	**1300**	500	"	"	"	"	"	"	
Surrogate Toluene-d8		*9 .8*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1*		*81.2-123*					
Surrogate Dibromofluoromethane		*1 2*		*9 . -13*					

SunStar Laboratories, Inc.

Daniel J Chavez

Daniel Chavez, 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	03/05/13 14:37

B-28-7.5

T130428-06 Soil

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	3030109	03/01/13	03/02/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate Toluene-d8		*89.9*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1 8*		*81.2-123*					
Surrogate Dibromofluoromethane		*1 3*		*9 . -13*					

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Daniel Chavez, 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	03/05/13 14:37

B-28-15.5

T130428-07 Soil

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	3030109	03/01/13	03/02/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 GRO	**16000**	500	"	"	"	"	"	"	
Surrogate Toluene-d8		*9 .*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1 3*		*81.2-123*					
Surrogate Dibromofluoromethane		*1 4*		*9 . -13*					

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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	03/05/13 14:37

B-28-W

T130428-08 Water

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.50	ug/l	1	3022738	02/27/13	02/28/13	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	ND	1.0	"	"	"	"	"	"	
C6-C12 GRO	**910**	50	"	"	"	"	"	"	
Surrogate Toluene-d8		*1 1*		*88.8-11*					
Surrogate 4-Bromofluorobenzene		*1 8*		*83. -119*					
Surrogate Dibromofluoromethane		*123*		*81.1-13*					

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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	03/05/13 14:37

B-24-W

T130428-09 Water

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.50	ug/l	1	3022738	02/27/13	02/28/13	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	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate Toluene-d8		*1 2*		*88.8-11*					
Surrogate 4-Bromofluorobenzene		*98.8*		*83. -119*					
Surrogate Dibromofluoromethane		*13*		*81.1-13*					

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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	03/05/13 14:37

OW-1-7.5

T130428-10 Soil

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	3030109	03/01/13	03/02/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate Toluene-d8		*9 .8*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1 1*		*81.2-123*					
Surrogate Dibromofluoromethane		*1 2*		*9 . -13*					

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	03/05/13 14:37

OW-1-15.0

T130428-11 Soil

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**39**	5.0	ug/kg	1	3030109	03/01/13	03/02/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**190**	5.0	"	"	"	"	"	"	
m,p-Xylene	**13**	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 GRO	**7400**	500	"	"	"	"	"	"	
Surrogate Toluene-d8		*9 .*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1*		*81.2-123*					
Surrogate Dibromofluoromethane		*1 2*		*9 . -13*					

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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	03/05/13 14:37

OW-1-17.0

T130428-12 Soil

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Benzene	**13**	5.0	ug/kg	1	3030109	03/01/13	03/02/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**120**	5.0	"	"	"	"	"	"	
m,p-Xylene	**7.4**	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 GRO	**18000**	500	"	"	"	"	"	"	
Surrogate Toluene-d8		*9 .*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*92.4*		*81.2-123*					
Surrogate Dibromofluoromethane		*1 4*		*9 . -13*					

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Daniel Chavez, 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	03/05/13 14:37

OW-1-25.0

T130428-13 Soil

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**14**	5.0	ug/kg	1	3030109	03/01/13	03/02/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**47**	5.0	"	"	"	"	"	"	
m,p-Xylene	**11**	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 GRO	**6500**	500	"	"	"	"	"	"	
Surrogate Toluene-d8		*9 .*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*99.2*		*81.2-123*					
Surrogate Dibromofluoromethane		*99.*		*9 . -13*					

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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	03/05/13 14:37

Volatile Organic Compounds by EPA Method 8260B - uality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3022738 - EPA 5030 GCMS										
Blank 3022738-BLK1				Prepared: 02/27/13 Analyzed: 02/28/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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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	03/05/13 14:37

Volatile Organic Compounds by EPA Method 8260B - uality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3022738 - EPA 5030 GCMS										
Blank 3022738-BLK1				Prepared: 02/27/13 Analyzed: 02/28/13						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	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 Toluene-d8	*.*			*.*		*99.9*	*88.8-11*			
Surrogate 4-Bromofluorobenzene	*1.*			*.*		*1 3*	*83. -119*			
Surrogate Dibromofluoromethane	*.9*			*.*		*132*	*81.1-13*			

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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	03/05/13 14:37

Volatile Organic Compounds by EPA Method 8260B - uality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3022738 - EPA 5030 GCMS										
LCS 3022738-BS1				Prepared: 02/27/13 Analyzed: 02/28/13						
Chlorobenzene	22.2	1.0	ug/l	25.0		88.9	75-125			
1,1-Dichloroethene	22.4	1.0	"	25.0		89.8	75-125			
Trichloroethene	22.2	1.0	"	25.0		88.8	75-125			
Benzene	24.2	0.50	"	25.0		96.7	75-125			
Toluene	23.4	0.50	"	25.0		93.6	75-125			
Surrogate Toluene-d8	*48.8*			.		*9 .*	*88.8-11*			
Surrogate 4-Bromofluorobenzene	*48.8*			.		*9 .*	*83. -119*			
Surrogate Dibromofluoromethane	*.1*			.		*13*	*81.1-13*			
LCS Dup 3022738-BSD1				Prepared: 02/27/13 Analyzed: 02/28/13						
Chlorobenzene	25.7	1.0	ug/l	25.0		103	75-125	14.6	20	
1,1-Dichloroethene	24.2	1.0	"	25.0		96.7	75-125	7.38	20	
Trichloroethene	22.2	1.0	"	25.0		88.9	75-125	0.0450	20	
Benzene	27.2	0.50	"	25.0		109	75-125	11.6	20	
Toluene	24.7	0.50	"	25.0		99.0	75-125	5.57	20	
Surrogate Toluene-d8	*48.8*			.		*9 .*	*88.8-11*			
Surrogate 4-Bromofluorobenzene	*.*			.		*1 1*	*83. -119*			
Surrogate Dibromofluoromethane	*2.3*			.		*14*	*81.1-13*			*S-GC*
Batch 3030109 - EPA 5030 GCMS										
Blank 3030109-BLK1				Prepared: 03/01/13 Analyzed: 03/02/13						
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							

SunStar Laboratories, Inc.

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Daniel Chavez, 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	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	03/05/13 14:37

Volatile Organic Compounds by EPA Method 8260B - uality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3030109 - EPA 5030 GCMS										
Blank 3030109-BLK1				Prepared: 03/01/13 Analyzed: 03/02/13						
4-Chlorotoluene	ND	5.0	ug/kg							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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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	03/05/13 14:37

Volatile Organic Compounds by EPA Method 8260B - uality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3030109 - EPA 5030 GCMS										
Blank 3030109-BLK1				Prepared: 03/01/13 Analyzed: 03/02/13						
1,2,3-Trichloropropane	ND	5.0	ug/kg							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
C6-C12 (GRO)	ND	500	"							
Surrogate Toluene-d8	*39.8*			*4 .*		*99.4*	*8 . -11*			
Surrogate 4-Bromofluorobenzene	*41.2*			*4 .*		*1 3*	*81.2-123*			
Surrogate Dibromofluoromethane	*4 .*			*4 .*		*11*	*9 . -13*			
LCS 3030109-BS1				Prepared: 03/01/13 Analyzed: 03/02/13						
Chlorobenzene	96.0	5.0	ug/kg	100		96.0	75-125			
1,1-Dichloroethene	89.3	5.0	"	100		89.3	75-125			
Trichloroethene	91.4	5.0	"	100		91.4	75-125			
Benzene	99.8	5.0	"	100		99.8	75-125			
Toluene	89.7	5.0	"	100		89.7	75-125			
Surrogate Toluene-d8	*3 .*			*4 .*		*94.2*	*8 . -11*			
Surrogate 4-Bromofluorobenzene	*41.*			*4 .*		*1 2*	*81.2-123*			
Surrogate Dibromofluoromethane	*4 .8*			*4 .*		*11*	*9 . -13*			

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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	03/05/13 14:37

Volatile Organic Compounds by EPA Method 8260B - uality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3030109 - EPA 5030 GCMS										
Matrix Spike 3030109-MS1	**Source: T130428-01**			Prepared: 03/01/13 Analyzed: 03/02/13						
Chlorobenzene	87.8	5.0	ug/kg	100	ND	87.8	75-125			
1,1-Dichloroethene	89.2	5.0	"	100	ND	89.2	75-125			
Trichloroethene	97.2	5.0	"	100	ND	97.2	75-125			
Benzene	101	5.0	"	100	ND	101	75-125			
Toluene	87.6	5.0	"	100	ND	87.6	75-125			
Surrogate Toluene-d8	*3 .*			*4 .*		*91.*	*8 . -11*			
Surrogate 4-Bromofluorobenzene	*3 .4*			*4 .*		*91.*	*81.2-123*			
Surrogate Dibromofluoromethane	*44.4*			*4 .*		*111*	*9 . -13*			
Matrix Spike Dup 3030109-MSD1	**Source: T130428-01**			Prepared: 03/01/13 Analyzed: 03/02/13						
Chlorobenzene	103	5.0	ug/kg	100	ND	103	75-125	15.6	20	
1,1-Dichloroethene	88.0	5.0	"	100	ND	88.0	75-125	1.47	20	
Trichloroethene	94.0	5.0	"	100	ND	94.0	75-125	3.45	20	
Benzene	97.2	5.0	"	100	ND	97.2	75-125	3.89	20	
Toluene	83.8	5.0	"	100	ND	83.8	75-125	4.49	20	
Surrogate Toluene-d8	*3 .*			*4 .*		*91.8*	*8 . -11*			
Surrogate 4-Bromofluorobenzene	*44.*			*4 .*		*11*	*81.2-123*			
Surrogate Dibromofluoromethane	*42.*			*4 .*		*1*	*9 . -13*			

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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	03/05/13 14:37

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).
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.

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Daniel Chavez, Project Manager

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

Chain of Custody Record

Client: Grib Associates
Address:
Phone: Fax:
Project Manager: J Gribi

Date: 2/22/13 Page: 1 Of 1
Project Name: Maz Glass
Collector: MRasmas / J Gribi Client Project #:
Batch #: T130428 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only +TPH-G	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	Comments/Preservative	Total # of containers
B-27-7.0	2/21	1410	S	A			X											01	STD. TAT 2/23/13	1
B-27-15.5	"	1420	"	A			X											02		1
B-27-W	2/22/13	0815	W	HCL VOAs			X											03		4
B-24-9.0	2/21/12	1200	S	A			X											04		1
B-24-15.0	"	1215	"	A			X											05		1
B-28-7.5	"	0915	"	A			X											06		1
B-28-15.5	"	0930	"	A			X											07		1
B-28-W	2/22	10:00	W	HCL VOAs			X											08		4
B-22-W	2/22	0840	W	HCL VOAs			X											09		4
DW-1-7.5	2/22/13	0825	S	A			X											10		1
DW-1-15.0	"	0834	"	A			X											11		1
DW-1-17.0	"	0845	"	A			X											12		1
DW-1-25.0	"	9:00	"	A			X											13		1

B-24-W BC

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	2/22/12 1330	[signature]	2/22/13 1330
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
GSO	2/23/13 1018	[signature]	2/23/13 1018
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers	22
Chain of Custody seals Y/N/NA	Y
Seals intact? Y/N/NA	Y
Received good condition/cold	Y 3.2

Turn around time: STND

Notes

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

COC 101659

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130428

Client Name: Gribi Project: Maz Glass

Received by: Dan M. Date/Time Received: 2/23/13 1038

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 3.4 °C +/- the CF (- 0.2°C) = 3.2 °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 2/23/13

Comments:

brian

From: Bill Hannell [bill@sunstarlabs.com]
Sent: Friday, February 22, 2013 6:09 PM
To: bcharon@sunstarlabs.com
Cc: sunny@sunstarlabs.com
Subject: FW:

HI Brian and Sunny

These samples for Gribi are coming in tomorrow, see the email below, you need to change the sample id

Thanks

Bill

From: James Gribi [mailto:Jgribi@gribiassociates.com]
Sent: Friday, February 22, 2013 5:13 PM
To: Bill Hannell
Cc: dchavez@sunstarlabs.com
Subject:

Bill

I made a mistake on the labeling of the voas for the boring water samples. The sample labeled as "B-22-W", collected at 0840 on 2/22, should actually be labeled as "B-24-W". Can you please change the COC for me?

Thanks,

Jim

James E. Gribi, PG
Senior Geologist/Principal
Gribi Associates
1090 Adams Street, Suite K
Benicia, CA 94510
Phone: (707) 748-7743
Fax: (707) 748-7763
Cell: (707)631-1505

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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06 March 2013

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 02/27/13 10:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
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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	03/06/13 13:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OW-2-7.5	T130449-01	Soil	02/22/13 11:05	02/27/13 10:10
OW-2-15.5	T130449-02	Soil	02/22/13 11:20	02/27/13 10:10
OW-3-7.5	T130449-03	Soil	02/22/13 13:40	02/27/13 10:10
OW-3-15.5	T130449-04	Soil	02/22/13 13:50	02/27/13 10:10

SunStar Laboratories, Inc.

Daniel Chavez, 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	03/06/13 13:24

OW-2-7.5

T130449-01 Soil

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 GRO	**7700**	500	ug/kg	1	3022746	02/27/13	02/28/13	EPA 8015C	
Surrogate 4-Bromofluorobenzene		*13*		*-13*					
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	3030537	03/03/13	03/04/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate Toluene-d8		*99.*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*98.*		*81.2-123*					
Surrogate Dibromofluoromethane		*9 .4*		*9 . -13*					*S-GC*

SunStar Laboratories, Inc.

Daniel J Chávez

Daniel Chavez, 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	03/06/13 13:24

OW-2-15.5

T130449-02 Soil

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 GRO	**2500**	500	ug/kg	1	3022746	02/27/13	02/28/13	EPA 8015C	
Surrogate 4-Bromofluorobenzene		*122*		*-13*					
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	3030537	03/03/13	03/04/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**8.4**	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate Toluene-d8		*9 .1*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1*		*81.2-123*					
Surrogate Dibromofluoromethane		*9 .8*		*9 . -13*					

SunStar Laboratories, Inc.

Daniel J Chávez

Daniel Chavez, 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	03/06/13 13:24

OW-3-7.5

T130449-03 Soil

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 GRO	**1100**	500	ug/kg	1	3022746	02/27/13	02/28/13	EPA 8015C	
Surrogate 4-Bromofluorobenzene		*128*		*-13*					
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	3030537	03/03/13	03/04/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate Toluene-d8		*98.1*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1 1*		*81.2-123*					
Surrogate Dibromofluoromethane		*9 .*		*9 . -13*					*S-GC*

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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	03/06/13 13:24

OW-3-15.5

T130449-04 Soil

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	500	ug/kg	1	3022746	02/27/13	02/28/13	EPA 8015C	
Surrogate 4-Bromofluorobenzene		*1*		*-13*					
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	3030537	03/03/13	03/04/13	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate Toluene-d8		*1 2*		*8 . -11*					
Surrogate 4-Bromofluorobenzene		*1 4*		*81.2-123*					
Surrogate Dibromofluoromethane		*9 .9*		*9 . -13*					

SunStar Laboratories, Inc.

Daniel J Chávez

Daniel Chavez, 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	03/06/13 13:24

Purgeable Petroleum Hydrocarbons by EPA 8015C - uality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3022746 - EPA 5030 GC										
Blank 3022746-BLK1				Prepared: 02/27/13 Analyzed: 02/28/13						
C6-C12 (GRO)	ND	500	ug/kg							
Surrogate 4-Bromofluorobenzene	*23*			*2*		*94.*	*-13*			
LCS 3022746-BS1				Prepared: 02/27/13 Analyzed: 02/28/13						
C6-C12 (GRO)	12600	500	ug/kg	13800		91.3	75-125			
Surrogate 4-Bromofluorobenzene	*322*			*2*		*129*	*-13*			
Matrix Spike 3022746-MS1		**Source: T130450-02**		Prepared: 02/27/13 Analyzed: 02/28/13						
C6-C12 (GRO)	12800	500	ug/kg	13800	1260	83.3	65-135			
Surrogate 4-Bromofluorobenzene	*31*			*2*		*12*	*-13*			
Matrix Spike Dup 3022746-MSD1		**Source: T130450-02**		Prepared: 02/27/13 Analyzed: 02/28/13						
C6-C12 (GRO)	12800	500	ug/kg	13800	1260	83.6	65-135	0.265	20	
Surrogate 4-Bromofluorobenzene	*323*			*2*		*129*	*-13*			

SunStar Laboratories, Inc.

Daniel J Chávez

Daniel Chavez, 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	03/06/13 13:24

Volatile Organic Compounds by EPA Method 8260B - uality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3030537 - General Prep VOC-MS										
Blank 3030537-BLK1				Prepared: 03/03/13 Analyzed: 03/04/13						
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							

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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	03/06/13 13:24

Volatile Organic Compounds by EPA Method 8260B - uality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3030537 - General Prep VOC-MS										
Blank 3030537-BLK1				Prepared: 03/03/13 Analyzed: 03/04/13						
p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
Surrogate Toluene-d8	*41.2*			*4 .*		*1 3*	*8 . -11*			
Surrogate 4-Bromofluorobenzene	*42.3*			*4 .*		*1*	*81.2-123*			
Surrogate Dibromofluoromethane	*3 .8*			*4 .*		*92.1*	*9 . -13*			*S-GC*

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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	03/06/13 13:24

Volatile Organic Compounds by EPA Method 8260B - uality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3030537 - General Prep VOC-MS										
LCS 3030537-BS1				Prepared: 03/03/13 Analyzed: 03/04/13						
Chlorobenzene	90.4	5.0	ug/kg	100		90.4	75-125			
1,1-Dichloroethene	90.9	5.0	"	100		90.9	75-125			
Trichloroethene	95.2	5.0	"	100		95.2	75-125			
Benzene	95.8	5.0	"	100		95.8	75-125			
Toluene	93.5	5.0	"	100		93.5	75-125			
Surrogate Toluene-d8	*39.*			*4 .*		*99.*	*8 . -11*			
Surrogate 4-Bromofluorobenzene	*38.9*			*4 .*		*9 .2*	*81.2-123*			
Surrogate Dibromofluoromethane	*3 .*			*4 .*		*92.4*	*9 . -13*			*S-GC*
LCS Dup 3030537-BSD1				Prepared: 03/03/13 Analyzed: 03/04/13						
Chlorobenzene	90.2	5.0	ug/kg	100		90.2	75-125	0.221	20	
1,1-Dichloroethene	86.3	5.0	"	100		86.3	75-125	5.19	20	
Trichloroethene	91.6	5.0	"	100		91.6	75-125	3.85	20	
Benzene	97.0	5.0	"	100		97.0	75-125	1.24	20	
Toluene	92.4	5.0	"	100		92.4	75-125	1.13	20	
Surrogate Toluene-d8	*4 .2*			*4 .*		*1 1*	*8 . -11*			
Surrogate 4-Bromofluorobenzene	*39.2*			*4 .*		*98.*	*81.2-123*			
Surrogate Dibromofluoromethane	*39.1*			*4 .*		*9 .8*	*9 . -13*			

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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	03/06/13 13:24

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).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Daniel Chavez, Project Manager

T130449

SUNSTAR LABORATORIES

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ■ 5 DAY

■ GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW)

Report To: James Gribi **Bill To:**

Company: Gribi Associates
1090 Adams Street, Suite K
Benicia, CA 94510 **E-Mail:**

Tele: (707) 748-7743 **Fax:** (707) 748-7763

Client Name: San Pablo Avenue Venture **Global ID:** T06019788682

Project Name: Maz Glass

Sampler Signature:

	SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: TPH-Gas, BTEX, MTBE (8015M/8021B)	TPH-Gas (8015M)	TPH-Diesel (8015M)	TPH-Motor Oil (8015M)	TPH-Gas, BTEX, MTBE (8260B)	TPH-Gas, BTEX, 5 Oxygenates (8260B)	TPH-Gas, BTEX, 7 Oxygenates (8260B)	5 Oxygenates (8260B)	Lead Scavengers [1,2 DCA & 1,2 EDB] (8260B)	VOC's – Full List (8260B)	Halogenated VOC's (8260B)	SVOC's (8270)	LUFT 5 Metals	Other	Other	Other	Comments
01	OW-2-7.5		2/22	1105	1	tube		X				X				X															
02	OW-2-15.5		2/22	1120												X															
03	OW-3-7.5		2/22	1340												X															
04	OW-3-15.5		2/22	1350												X															

Relinquished By:	Date:	Time:	Received By:
	2/22/13	1732	2-26-13 1102
Relinquished By:	Date:	Time:	Received By:
GSO	2-27-13	10:10	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.6
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS: STAT 2-27-13

Filter Samples for Metals analysis: Yes / No

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SAMPLE RECEIVING REVIEW SHEET

BATCH # T130449

Client Name: GRIBI Project: MAZ GLASS

Received by: Sunny Date/Time Received: 2.27.13 / 10:10

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 5.8 °C +/- the CF (- 0.2°C) = 5.6 °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 2.27.13

Comments:

_____

_____

_____

_____