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November 11, 2015

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

Attention: Mark Detterman

Subject: Low-Threat UST Case Closure Policy Evaluation
3800 San Pablo Avenue, Emeryville, California
ACDEH Fuel Leak Case: RO00002520; Global ID: T06019788682

Ladies and Gentlemen:

Attached please find a copy of the *Low-Threat UST Case Closure Policy Evaluation* prepared by Gribi Associates. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Very truly yours,

William H Banker Jr.

William H. Banker, Jr.
San Pablo Avenue Venture
c/o Banker, Marks & Kirk
1720 Broadway, Suite 202
Oakland, CA 94612

GRIBI
ASSOCIATES

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Ladies and Gentlemen:

Gribi Associates is pleased to submit this *Low-Threat UST Case Closure Policy (LTCP) Evaluation* on behalf of the site owners for the property located at 3800 San Pablo Avenue in Emeryville, California (Site) (see Figure 1 and Figure 2). The *Low-Threat Underground Storage Tank Case Closure Policy* (LTCP) is intended to allow for regulatory closure of sites which meet general and media-specific criteria. The following is a brief evaluation of the Site as it relates to LTCP general and media-specific criteria.

2.0 SITE BACKGROUND

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 15 feet below surface grade, held under confining pressure.

2.1 Brief Site History

Preliminary Phase I ESA activities were conducted which included a review of historical Sanborn Maps, a city directories abstract, historical 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 "Gas & Oil" 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 "Gas & Oil" label is the standard designation on Sanborn Maps for a gas station or gasoline fueling facility.

- 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.

2.2 Summary of Previous Environmental Investigation Activities

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

2.2.1 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 (subsequent investigative borings did not indicate either the specific location or any significant soil or groundwater hydrocarbon impacts associated with these former USTs). 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 over-excavated, and subsequent soil samples collected at approximately ten feet in depth showed relatively low levels of hydrocarbons.

In April 2012, a 1,000-gallon UST was discovered in the Apgar Street sidewalk on the south side of the Site. This UST was removed on August 9, 2012. The tank showed no evidence of leakage, and soils beneath the removed UST exhibited slight to occasionally moderate hydrocarbon odors. Laboratory analytical results from soil samples showed no significant hydrocarbon detections. The only hydrocarbon detection in any of the samples was 0.520 milligrams per kilogram (mg/kg) (detection level = 0.500 mg/kg) of Total Petroleum Hydrocarbons as Gasoline (TPH-G) in the north sidewall soil sample. All of the metals results were relatively low and appear to represent background metals concentrations.

2.2.2 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 (*Preliminary Investigation and Evaluation Report for 3800 San Pablo Avenue, Emeryville, California,* Enviro Soil Tech Consultants, August 28, 2007). Soil samples collected at five-foot intervals down to 20 feet in depth showed no significant hydrocarbon detections (see Table 1). 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 (see Table 2). 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, 3800 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 proposing: (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.

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 (*Report of Remedial Investigation and Workplan to Conduct Interim Remedial Measures, 3800 San Pablo Avenue, Emeryville, California,* Gribi Associates, July 13, 2012). 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 (see Table 3). The report for this investigation included a Conceptual Site Model and a work plan to conduct interim remedial measures (IRMs) for the Site. The IRM work plan proposed the drilling and sampling of additional borings and the implementation of an ozone injection pilot test on the Site. This work plan was conditionally approved on November 16, 2012.

In February 2013, three soil borings (B-24, B-27, and B-28) and three ozone injection wells (OW-1, OW-2, and OW-3) were installed and sampled. Soil samples from the three investigative borings and three well borings showed relatively low levels of gasoline-range hydrocarbons, with TPH-G concentrations ranging from nondetect to 25 mg/kg, and Benzene concentrations ranging from nondetect to 0.039 mg/kg. Groundwater samples from the three investigative borings showed low to moderate levels of gasoline-range hydrocarbons, with TPH-G concentrations ranging from nondetect to 7,900 ug/L and Benzene concentrations ranging from nondetect to 1,100 ug/L.

Gribi Associates installed an ozone remediation system at the site during the week of September 2, 2013. The ozone system was started on September 9, 2013 and operated continuously until the mid-October 2013. The system required repairs and was re-started on November 7, 2013 and operated continuously until the system was turned off on February 7, 2014. The ozone system was re-started on August 5, 2014 and turned off on October 24, 2014 to assess concentration rebound.

On August 28, 2014, two soil borings, B-29 and B-30, were drilled and sampled on the west side of San Pablo Avenue and five temporary soil gas wells, SG-1 through SG-5, were installed and sampled. Soil gas well SG-2 was re-sampled on September 15, 2014, and soil gas wells SG-2 and SG-5 were re-sampled on September 25, 2014. Also, shallow soil samples SS-1 through SS-4 were collected in the east Site yard area on September 15, 2014. Results of these investigative activities were reported in *Report of Data Gaps Investigation, 3800 San Pablo Avenue, Emeryville, California* (Gribi Associates, November 7, 2014).

Soil gas samples from SG-1, SG-3, and SG-4 showed no detectable concentrations of hydrocarbon constituents (see Table 4). Soil gas samples collected at SG-2 on September 15, 2014 and September 25, 2014 showed relatively low concentrations of TPH-G, with no detectable BTEX constituents and low concentrations of Cyclohexane, Hexane, Heptane, and 1,3,4-Trimethylbenzene. The vapor sample collected from SG-5 on August 28, 2014 showed 1,700 micrograms per cubic meter (ug/m^3) OF Benzene, 5,600 ug/m^3 of Toluene, 1,200 ug/m^3 of Ethylbenzene, and 4,570 ug/m^3 of Xylenes. The two duplicate vapor samples from SG-5 collected on September 25, 2014 showed no detectable concentrations of hydrocarbon constituents. All of the soil gas samples showed no detectable Helium (leak detection compound) and generally high levels (greater than 10 percent) of Oxygen.

Soil and groundwater samples from borings B-29 and B-30 showed no detectable concentrations of hydrocarbon constituents, except for 0.72 micrograms per liter (ug/L) of Toluene in the groundwater sample from B-29. Soil samples at 2.5 feet and 5.0 feet in depth from temporary well borings SG-2 and SG-5 showed no detectable concentrations of hydrocarbon constituents. Shallow soil samples SS-1 through SS-4 showed no detectable concentrations of hydrocarbons and VOCs, and background levels of Metals. Note that the SS-2 sample showed 69 milligrams per kilogram (mg/kg) of Total Lead and 2.6 milligrams per liter (mg/L) of Soluble (STLC) Lead.

On February 26, 2015, Gribi Associates submitted the *Report of Additional Site Investigation Activities* documenting: (1) The monitoring and sampling of four Site wells on December 7, 2014 and on January 29, 2015; (2) The attempted collection of vapor samples from five temporary soil gas wells on December 7, 2014 and on January 29, 2015; (3) Conducting a preferential pathways/sensitive receptors survey; and (4) Preparation of groundwater plume delineation maps for the Site. During soil gas and groundwater sampling on December 7, 2014, it was noted that groundwater was abnormally shallow (5-6 feet bgs), presumably due to a perched water zone which resulted from significant rain events during late November/early December 2014. Thus, sampling of vapor wells yielded water, and not vapor, during the December 7, 2014 sampling. For this reason, soil gas wells and groundwater monitoring wells were sampled again on January 29, 2015. This investigation also included a preferential pathways survey. Results of this and previous investigations indicated that:

1. Groundwater TPH-G concentrations in the four wells generally increased during the two recent monitoring events; however, benzene concentrations generally remained similar to previous post-remediation sampling events. The increases in TPH-G in groundwater correspond to shallowing of groundwater that resulted from surface water infiltration during significant rain events in late November/early December 2014

2. The significant rainfall in late November/early December 2014 resulted in a temporary perched groundwater zone, or zones, that precluded soil gas sampling in Site soil gas wells, screened at about 5.5 feet in depth. Based on groundwater depth history, this groundwater shallowing appears to be anomalous

3. The temporary perched groundwater zone caused by November/December 2014 rains resulted in the anomalous soil gas VOC and fixed gases results in the three soil gas wells sampled on January 29, 2015. Vapor samples from SG-3 and SG-5 showed elevated levels of methane and low levels of oxygen, and the SG-4 vapor sample showed an elevated level of TPH-G, but no BTEX constituents.

4. The continued lack of elevated concentrations of BTEX constituents in sub-slab vapor samples clearly indicates that indoor air exposure to BTEX, and particularly benzene, is not a significant concern relative to the planned Site redevelopment.

5. There appear to be no preferential pathways or sensitive receptors relative to Site hydrocarbon impacts. Below-ground utilities identified on and adjacent to the Site are too shallow to have acted as preferential migratory pathways, and well survey results for the former Ambassador Laundry site clearly indicate no water supply wells in the site vicinity.

6. The TPH-G groundwater hydrocarbon plume definition relative to the former Apgar Street UST has not been fully defined. However, we would not expect this plume length to exceed 200 feet, given: (1) The groundwater hydrocarbon plume associated with the former Adeline Street USTs (which is a larger hydrocarbon release) does not exceed 210 feet in length; (2) The groundwater dewatering system for the immediately south West MacArthur Boulevard underpass would be expected to intercept and halt downgradient (southwest) migration of this plume; and (3) Low-permeability soils beneath the Site and in the site vicinity generally result in short-length groundwater hydrocarbon plumes throughout the East Bay. It is also worth noting that, while groundwater in B-28 (immediately south from the former UST) showed 910 ug/L, no BTEX or hydrocarbon constituents were detected in the groundwater sample from this boring.

7. The Site meets both the general and media-specific criteria for low-threat closure under *Low-Threat Underground Storage Tank Case Closure Policy.*

On July 6, 2015, Gribi Associates submitted the *Report of Data Gaps Investigation* on behalf of the site owners for the property located at 3800 San Pablo Avenue in Emeryville, California (Site). This report describes and documents: (1) The drilling and sampling of four investigative soil borings (B-31 through B-34) on March 10 and 11, 2015; (2) The re-installation and sampling of five soil gas wells (SG-1A through SG-5A) on March 10 and 11, 2015; (3) The monitoring and sampling of four Site wells (MW-1 through MW-4) on March 18, 2015; and (4) The installation and sampling of 11 sub-slab vapor wells (SS-1 through SS-11) on March 18 and March 25, 2015. The goal of these investigative activities has been to address previously-identified investigative data gaps in order to move the Site towards regulatory closure.

Soil samples collected at 4.5 feet and 9.5 feet in depth in B-31 showed no significant hydrocarbon detections. Soil samples from various depths in borings B-32, B-33, and B-34 showed no significant hydrocarbon detections. Grab groundwater samples from borings B-32, B-33, and B-34 showed detections of TPH-D, but no significant gasoline-range hydrocarbon detections.

Groundwater is held under confining conditions. Groundwater did not enter boring B-31, which was drilled to 10 feet in depth. Groundwater was encountered in borings B-32, B-33, and B-34 below 15 feet in depth and entered borings slowly. Groundwater laboratory analytical results from the four Site wells (MW-1 through MW-4) showed some hydrocarbon concentration rebound from pre-ozone injection results, but reductions from recent apparent rain-induced concentrations spikes.

Both soil gas and sub-slab vapor lab results showed: (1) Low to nondetectable concentrations of BTEX constituents in all wells; (3) Some isolated TPH-G detections in vapor wells associated with the main gasoline groundwater plume; and (3) Elevated concentrations of TPH-G and methane at soil gas well SG-4 and sub-slab vapor wells SS-1 and SS-7, located immediately adjacent to the former UST near the southwest corner of the Site.

2.3 Recent Activities and Results

2.3.1 Excavation of Hydrocarbon Impacted Soil

On September 25, 2015, AEI Consultants excavated soil in the vicinity of the former underground storage tank (UST) located in the sidewalk along West MacArthur Boulevard near the southwest corner of the Site building (see Figure 3). The goal of the soil removal activities was to attempt to mitigate continued generation of methane soil gas concentrations present in shallow soils in the vicinity of soil vapor well SG-4. The excavation extended south from the Site

building footing to the former UST excavation cavity and measured approximately 15 feet by 6 feet by 9.5 feet in depth.

Soils from the excavation generally consisted of dense brown to olive grey clays. Soils exhibited no unusual staining and no hydrocarbon odors. Two excavation pit bottom samples (EbW9ft6in and EbE9ft6in) were collected at approximately 9.5 feet in depth, and two sidewall samples (SWNW7ft6in and SWNE7ft6in) were collected from the north sidewall at approximately 7.5 feet in depth. In addition, one composite soil stockpile sample (SP1-4) was collected. Laboratory analytical results are summarized in Table 5, and the laboratory data report is included in Attachment A. The pit bottom and sidewall samples showed no detectable concentrations of TPH-G/BTEX, TPH-D, and TOG. The stockpile soil sample showed no detectable concentrations of TPH-G/BTEX and TPH-D.

2.3.2 Verification Vapor Sampling

On October 13, 2015, Gribi Associates samples sub-slab vapor well SS-1 and soil gas well SG-4, both located adjacent to the September 25 excavation area. 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. 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.

Laboratory analytical results are summarized in Table 4, and the laboratory data report is included in Attachment A. Vapor samples from SS-1 and SG-4 showed respective TPH-G concentrations of nondetect (RL=7,170 ug/m^3) and 174,000 ug/m^3 (Duplicate = 201,000 ug/m^3), and respective methane concentrations of nondetect (RL=0.0005 %) and 1.3 % (Duplicate = 1.5 %).

3.0 LOW-THREAT CLOSURE EVALUATION

3.1 LTCP General Criteria

The Site meets all of the LTCP general criteria, as summarized below:

- The Site is on a public water supply system; East Bay Municipal Utilities District.
- The release consists only of petroleum. COCs are primarily gasoline-range hydrocarbons.
- The major sources of contamination have been stopped. USTs removed in 1982, 2002, and 2012.
- There has been no free product encountered at the Site.

- A conceptual site model has been developed for this Site. Site Conceptual Model submitted on April 1, 2014.
- Secondary sources have been removed to the extent practicable. Soil overexcavation conducted and ozone injection conducted.
- Soil and groundwater has been tested for MTBE and reported.
- Nuisance as defined by Water Code section 13050 does not exist at the Site.

Note that previously-identified elevated methane vapor impacts present in shallow soils beneath the southwest corner of the Site building slab could potentially have represented a nuisance as a possible explosion hazard. However, soils adjacent to the methane-impacted area were excavated, and subsequent sub-slab and soil vapor sampling showed methane vapor results which were significantly below the lower explosion limit (LEL) of 4.4 %. Thus, soil excavation was effective in mitigating previously-identified methane vapor impacts, which clearly represented a relict vapor plume trapped beneath the building slab over many decades.

3.2 LTCP Media-Specific Criteria: Groundwater

The Site meets the following LTCP media-specific criteria for groundwater:

- The contaminant plume that exceeds groundwater quality objectives is less than 250 feet in length.
- The nearest existing water supply well and/or surface water body is greater than 1,000 feet from the defined plume boundary.
- An analysis of site-specific conditions determined that the site under current and reasonably anticipated near-term future scenarios poses a low-threat to human health and safety and to the environment, and water quality objectives will be achieved within a reasonable time frame.

3.3 LTCP Media-Specific Criteria: Vapor Intrusion to Indoor Air

The Site meets the following LTCP media-specific criteria for vapor intrusion to indoor air (Scenario 4 – Direct Measurement of Soil Gas Concentrations):

- There is a minimum of five vertical feet of soil between the depth of soil gas measurement and the building foundation. Soil gas samples were collected at 5.5 feet in depth; the concrete slab foundation is approximately 0.5 feet thick.
- Oxygen concentrations in soil gas are greater than 4 percent. The average soil gas oxygen concentration for all Site soil gas samples to date is 9.7 percent.
- Benzene concentrations in soil gas are less than 85,000 ug/m^3. The highest benzene concentration for all Site soil gas samples is 1,700 ug/m^3.

3.4 LTCP Media-Specific Criteria: Direct Contact and Outdoor Air Exposure

The Site meets the following LTCP media-specific criteria for direct contact and outdoor air exposure:

- Benzene concentrations in soil are below LTCP Table 1 respective 0-5 ft bgs and 5-10 ft bgs residential risk levels of 1.9 mg/kg and 2.8 mg/kg. Benzene concentrations in these depth intervals in Site soil borings are nondetect.
- Ethylbenzene concentrations in soil are below LTCP Table 1 respective 0-5 ft bgs and 5-10 ft bgs residential risk levels of 21 mg/kg and 32 mg/kg. The highest Ethylbenzene concentrations in the 0-5 ft bgs and 5-10 ft bgs depth intervals in Site borings are nondetect and 3.2 mg/kg, respectively.
- Naphthalene concentrations in soil are below LTCP Table 1 respective 0-5 ft bgs and 5-10 ft bgs residential risk levels of 9.7 mg/kg and 9.7 mg/kg. The highest Naphthalene concentrations in the 0-5 ft bgs and 5-10 ft bgs depth intervals in Site borings are nondetect and 0.25 mg/kg, respectively.

Since the Site meets both the general and media-specific criteria, regulatory closure should be granted for this site.

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

TABLES

Table 1

CUMULATIVE SOIL LABORATORY ANALYTICAL RESULTS

Former Maz Glass UST Site

Sample ID	Sample Depth	Soil Concentration, in milligrams per kilogram (mg/kg)							
		TPH-D	TPH-G	B	T	E	X	OXY	OTHER VOCs
UST Removal, Enviro Soil Tech Consultants, May 2002									
T-1-7-1	7.0 feet	**280L**	**440**	<0.130	<0.130	<0.130	<0.130	MTBE <0.130	**0.910** Propylbenzene **0.260** Isopropylbenzene **0.490** n-Butylbenzene
T-1-10-2	10.0 feet	**97L**	**26**	<0.023	<0.023	<0.023	<0.023	MTBE <0.023	**0.140** Propylbenzene **0.037** Isopropylbenzene **0.067** n-Butylbenzene
T-2-6.5-1	6.5 feet	**29L**	**46**	<0.025	<0.025	**0.057**	<0.025	MTBE <0.025	**0.640** Propylbenzene **0.130** Isopropylbenzene **0.150** sec-Butylbenzene **0.130** Isopropyl Toluene **0.670** n-Butylbenzene
T-2-8.5-2	8.5 feet	**24L**	**370**	<0.130	<0.130	**3.2**	**0.48**	MTBE <0.130	**2.8** Propylbenzene **0.650** Isopropylbenzene **0.380** sec-Butylbenzene **0.510** Isopropyl Toluene **1.9** n-Butylbenzene **0.370** 1,3,5-Trimethylbenzene **0.250** Naphthalene
T-2-11-3	11.0 feet	**18L**	**59**	<0.013	<0.013	**0.069**	<0.013	MTBE <0.013	**0.059** Acetone **0.036** 2-Butanone **0.039** Propylbenzene **0.019** n-Butylbenzene
Soil Boring Investigation, Enviro Soil Tech Consultants, May 2007									
B-1-5	5.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-1-10	10.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-1-15	15.0 feet	<5	<0.5	**0.030**	<0.005	**0.022**	<0.010	NA	**0.010** n-Propylbenzene
B-1-20	20.0 feet	**7.7**	**7.7**	**0.085**	<0.005	0.026	0.015	NA	**0.019** 1,2,4-Trimethylbenzene **0.0071** 1,3,5-Trimethylbenzene **0.0055** n-Propylbenzene **0.014** Naphthalene
B-2-5	5.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-2-10	10.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-2-15	15.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-2-20	20.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-3-5	5.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-3-10	10.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-3-15	15.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-3-20	20.0 feet	<5	**7.5**	<0.005	<0.005	<0.005	<0.010	NA	**0.110** Acetone

Table 1

CUMULATIVE SOIL LABORATORY ANALYTICAL RESULTS

Former Maz Glass UST Site

Sample ID	Sample Depth	Soil Concentration, in milligrams per kilogram (mg/kg)							
		TPH-D	TPH-G	B	T	E	X	OXY	OTHER VOCs
B-4-5	5.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-4-10	10.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-4-15	15.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-4-20	20.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-5-5	5.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-5-10	10.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-5-15	15.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-5-20	20.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-6-5	5.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-6-10	10.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-6-15	15.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	**0.0086** n-Propylbenzene
B-6-20	20.0 feet	<5	**1.1**	0.0071	<0.005	0.068	<0.010	NA	**0.0082** 1,2,4-Trimethylbenzene **0.006** 1,3,5-Trimethyl benzene **0.0083** Isopropylbenzene **0.013** n-Propyl benzene **0.0055** Naphthalene
B-7-5	5.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-7-10	10.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-7-15	15.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
B-7-20	20.0 feet	<5	<0.5	<0.005	<0.005	<0.005	<0.010	NA	ND
Soil Boring Investigation, Gribi Associates, December 2011									
B-8-6.0	6.0 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-8-9.0	9.0 feet	NA	**4.0**	<0.005	<0.005	<0.005	<0.010	NA	NA
B-8-14.0	14.0 feet	22	**22**	<0.005	<0.005	<0.005	<0.010	NA	NA
B-9-7.5	7.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-9-11.0	11.0 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-9-16.0	16.0 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-10-7.5	7.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-10-13.5	13.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-10-20.5	20.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-11-10.5	10.5 feet	**26**	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-11-15.0	15.0 feet	<10	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-11-20.0	20.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-12-7.5	7.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-12-10.5	10.5 feet	NA	**1.2**	<0.005	<0.005	<0.005	<0.010	NA	NA
B-12-17.5	17.5 feet	NA	**2.9**	<0.005	<0.005	<0.005	<0.010	NA	NA
B-12-22.0	22.0 feet	<10	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-13-7.5	7.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-13-12.5	12.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-13-14.5	14.5 feet	NA	**2**	<0.005	<0.005	<0.005	<0.010	NA	NA
B-13-20.0	20.0 feet	NA	**3.9**	<0.005	<0.005	0.07	<0.010	NA	NA

Table 1

CUMULATIVE SOIL LABORATORY ANALYTICAL RESULTS

Former Maz Glass UST Site

Sample ID	Sample Depth	Soil Concentration, in milligrams per kilogram (mg/kg)							
		TPH-D	TPH-G	B	T	E	X	OXY	OTHER VOCs
B-14-8.0	8.0 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-14-12.0	12.0 feet	NA	**1.6**	<0.005	<0.005	<0.005	<0.010	NA	NA
B-14-15.5	15.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-14-20.5	20.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
Remedial Investigation, Gribi Associates, May 2012									
B-15-12.0	12.0 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	NA
B-16-13.5	13.5 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	NA
B-17-11.5	11.5	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	NA
B-18-13.0	13.0 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
B-18-19.0	19.0 feet	NA	**1.4**	<0.005	**0.013**	<0.005	<0.010	NA	NA
B-18-23.0	23.0 feet	NA	**0.63**	<0.005	<0.005	<0.005	<0.010	NA	NA
B-19-17.5	17.5 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	NA
B-20-20.0	20.0 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	NA
B-21-14.5	14.5 feet	NA	**0.52**	<0.005	<0.005	<0.005	<0.010	NA	NA
B-21-16.0	16.0 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	NA
B-22-17.0	17.0 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	NA
B-23-11.0	11.0 feet	NA	**0.70**	<0.005	<0.005	<0.005	<0.010	NA	NA
MW-1-10.5	10.5 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	NA
MW-1-15.5	15.5 feet	NA	**3.1**	<0.005	**0.017**	**0.013**	**0.0291**	NA	NA
MW-1-20.0	20.0 feet	NA	**4.7**	**0.032**	**0.013**	**0.12**	<0.010	NA	NA
MW-1-23.0	23.0 feet	NA	**2.8**	0.025	0.0077	0.073	<0.010	NA	NA
MW-2-4.5	4.5 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	NA
MW-2-8.0	8.0 feet	NA	**35**	<0.005	**0.13**	**0.038**	**0.086**	NA	NA
MW-2-17.5	17.5 feet	NA	**69**	**0.14**	**0.14**	**0.22**	**0.148**	NA	NA
MW-2-24.0	24.0 feet	NA	**54**	0.22	0.14	0.57	0.121	NA	NA
MW-3-8.0	8.0 feet	NA	**25**	<0.005	**0.1**	<0.005	**0.101**	NA	NA
MW-3-17.5	17.5 feet	NA	**1.3**	<0.005	**0.0076**	**0.011**	<0.010	NA	NA
MW-3-23.0	23.0 feet	NA	**28**	0.36	0.052	0.35	0.236	NA	NA
MW-4-7.0	7.0 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	NA
MW-4-12.0	12.0 feet	NA	**1.3**	<0.005	**0.0055**	**0.0081**	<0.010	NA	NA
MW-4-16.0	16.0 feet	NA	**7.3**	**0.0069**	**0.028**	**0.034**	**0.0215**	NA	NA
MW-4-23.0	23.0 feet	NA	22	0.026	0.064	0.062	0.085	NA	NA
South UST Removal, Gribi Associates, August 2012									
T-1-W	10.0 feet	<10	<0.50	<0.005	<0.005	<0.005	<0.005	All ND	All ND
T-1-E	10.0 feet	<10	<0.50	<0.005	<0.005	<0.005	<0.005	All ND	All ND
T-1-N	7.0 feet	<10	**0.52**	<0.005	<0.005	<0.005	<0.005	All ND	All ND
T-1-S	7.0 feet	<10	<0.50	<0.005	<0.005	<0.005	<0.005	All ND	All ND

Table 1

CUMULATIVE SOIL LABORATORY ANALYTICAL RESULTS

Former Maz Glass UST Site

Sample ID	Sample Depth	Soil Concentration, in milligrams per kilogram (mg/kg)							
		TPH-D	TPH-G	B	T	E	X	OXY	OTHER VOCs
Remediation Pilot Test, Gribi Associates, February 2013									
B-24-9.0	9.0 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	All ND	NA
B-24-15.0	15.0 feet	NA	**1.3**	<0.005	<0.005	<0.005	<0.010	All ND	NA
B-27-7.0	7.0 feet	NA	**25**	<0.005	<0.005	<0.005	<0.010	All ND	NA
B-27-15.5	15.5 feet	NA	**4.4**	0.0056	<0.005	0.12	0.008	All ND	NA
B-28-7.5	7.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	All ND	NA
B-28-15.5	15.5 feet	NA	**16**	<0.005	<0.005	<0.005	<0.010	All ND	NA
OW-1-7.5	7.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	All ND	NA
OW-1-15.0	15.0 feet	NA	**7.4**	**0.039**	<0.005	**0.19**	**0.013**	All ND	NA
OW-1-17.0	17.0 feet	NA	**18**	**0.013**	<0.005	**0.12**	**0.0074**	All ND	NA
OW-1-25.0	25.0 feet	NA	**6.5**	0.014	<0.005	0.047	0.011	All ND	NA
OW-2-7.5	7.5 feet	NA	**7.7**	<0.005	<0.005	<0.005	<0.010	NA	NA
OW-2-15.5	15.5 feet	NA	**2.5**	<0.005	<0.005	0.0084	<0.010	NA	NA
OW-3-7.5	7.5 feet	NA	**1.1**	<0.005	<0.005	<0.005	<0.010	NA	NA
OW-3-15.5	15.5 feet	NA	<0.5	<0.005	<0.005	<0.005	<0.010	NA	NA
Soil, Water, & Vapor Investigation, Gribi Associates, August/September 2014									
B-29-20.0	20.0 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	<0.005 Naphthalene
B-30-20.0	20.0 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	NA	<0.005 Naphthalene
SG-2-2.5	2.5 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	<0.005 Naphthalene
SG-2-5.0	5.0 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	<0.005 Naphthalene
SG-5-2.5	2.5 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	<0.005 Naphthalene
SG-5-5.0	5.0 feet	NA	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	<0.005 Naphthalene
SS-1	1.0 foot	<10	<10	<0.005	<0.005	<0.005	<0.010	All ND	All ND
SS-2	1.0 foot	<10	<10	<0.005	<0.005	<0.005	<0.010	All ND	All ND
SS-3	1.0 foot	<10	<10	<0.005	<0.005	<0.005	<0.010	All ND	All ND
SS-4	1.0 foot	<10	<10	<0.005	<0.005	<0.005	<0.010	All ND	All ND
Soil, Water, & Vapor Investigation, Gribi Associates, March 2015									
B-31-4.5	4.5 feet	<10	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	All ND
B-31-9.5	9.5 feet	<10	<0.50	<0.005	**0.0084**	<0.005	<0.010	All ND	All ND
B-32-4.5	4.5 feet	<10	<0.50	<0.005	**0.0080**	<0.005	<0.010	All ND	All ND
B-32-7.5	7.5 feet	<10	<0.50	<0.005	**0.0080**	<0.005	<0.010	All ND	All ND
B-32-12.5	12.5 feet	<10	**4.8**	<0.005	**0.0083**	<0.005	<0.010	All ND	All ND
B-32-17.5	17.5 feet	<10	**9.8**	**0.016**	<0.005	**0.014**	<0.010	All ND	All ND
B-32-19.5	19.5 feet	<10	<0.50	<0.005	**0.0110**	<0.005	<0.010	All ND	All ND
B-32-24.5	24.5 feet	<10	**0.50**	<0.005	**0,0090**	<0.005	<0.010	All ND	All ND
B-33-4.5	4.5 feet	<10	<0.50	<0.005	**0.0086**	<0.005	<0.010	All ND	All ND
B-33-7.5	7.5 feet	<10	<0.50	<0.005	**0.0082**	<0.005	<0.010	All ND	All ND
B-33-11.5	11.5 feet	<10	**6.0**	<0.005	**0.0092**	**0.0050**	<0.010	All ND	All ND
B-33-14.5	14.5 feet	<10	**1.5**	<0.005	**0.0100**	**0.0056**	<0.010	All ND	All ND
B-33-18.0	18.0 feet	<10	**1.5**	<0.005	**0.0093**	<0.005	<0.010	All ND	All ND

Table 1

CUMULATIVE SOIL LABORATORY ANALYTICAL RESULTS

Former Maz Glass UST Site

Sample ID	Sample Depth	Soil Concentration, in milligrams per kilogram (mg/kg)							
		TPH-D	TPH-G	B	T	E	X	OXY	OTHER VOCs
B-34-7.5	7.5 feet	<10	<0.50	<0.005	**0.0075**	<0.005	<0.010	All ND	All ND
B-34-12.5	12.5 feet	<10	**1.0**	<0.005	**0.0093**	<0.005	<0.010	All ND	All ND
B-34-14.5	14.5 feet	<10	**2.0**	<0.005	**0.0096**	<0.005	<0.010	All ND	All ND
B-34-17.5	17.5 feet	<10	**2.0**	<0.005	<0.005	<0.005	<0.010	All ND	**0.0063** Isopropylbenzene **0.0069** n-Propylbenzene
B-34-24.5	24.5 feet	<10	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	All ND
SG-1A-3.0	3.0 feet	<10	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	All ND
SG-2A-3.0	3.0 feet	<10	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	All ND
SG-3A-3.0	3.0 feet	<10	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	All ND
SG-4A-3.0	3.0 feet	<10	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	All ND
SG-5A-3.0	3.0 feet	<10	<0.50	<0.005	<0.005	<0.005	<0.010	All ND	All ND
ESL		**100**	**100**	**0.044**	**2.9**	**3.3**	**2.3**	**8.4** MTBE	NL 1,2,4-Trimethyl benzene NL 1,3,5-Trimethyl benzene NL Isopropyl benzenee NL n-Butylbenzene NL sec-Butylbenzene NL Isopropyl Toluene NL n-Propylbenzene **3.1** Naphthalene

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene,

T = Toluene

E = Ethylbenzene

X = Xylenes

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)

L = Lighter hydrocarbons contributed to the quantitation.

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 constituents

ESL = 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, May 2013.

Table 2

CUMULATIVE GRAB GROUNDWATER LABORATORY ANALYTICAL RESULTS

Former Maz Glass UST Site

Sample ID	Sample Depth	Groundwater Concentration, in micrograms per liter (ug/L)							
		TPH-D	TPH-G	B	T	E	X	OXY	OTHER VOCs
Soil Boring Investigation, Enviro Soil Tech Consultants, May 2007									
B-1-W	20 feet	NA	**54,000**	**6,700**	**120**	**3,000**	**2,300**	NA	**2.8** 1,2,4-Trimethyl benzene 0.91 1,3,5-Trimethyl benzene 0.11 Isopropyl benzene
B-2-W	20 feet	<96	<50	<0.50	<0.50	<0.50	**0.5**	NA	All ND
B-3-W	20 feet	<54	**4,500**	***7.5***	*<2.5*	***2.7***	*<2.5*	NA	**0.0026** 1,2-Dichloroethane 0.055 Isopropylbenzene 0.031 n-Butylbenzene 0.071 n-Propylbenzene
B-4-W	20 feet	<120	<100	<0.50	<0.50	**0.55**	<0.50	NA	All ND
B-5-W	20 feet	<590	**780,000**	**240**	<50	**1,400**	**640**	NA	**1.10** 1,2,4-Trimethylbenzene 0.15 Isopropylbenzene 0.61 n-Propylbenzene
B-6-W	20 feet	<490	**44,000**	**3,000**	**120**	**2,200**	**1,200**	NA	**2.2** 1,2,4-Trimethylbenzene 0.72 1,3,5-Trimethylbenzene 0.11 Isopropylbenzene 0.52 n-Propylbenzene
B-7-W	20 feet	<56	<50	<0.50	<0.50	<0.50	<0.50	NA	**0.0032** 1,2-Dichloroethane
Soil Boring Investigation, Gribi Associates, December 2011									
B-8-W	(15-20')	NA	**68**	<0.50	<0.50	<0.50	<1.0	All ND	NA
B-9-W	(16-21')	NA	<50	<0.50	<0.50	<0.50	<1.0	All ND	NA
B-10-W	(16-21')	<50	<50	<0.50	<0.50	<0.50	<1.0	All ND	NA
B-11-W	(17-22')	NA	<50	<0.50	<0.50	<0.50	<1.0	All ND	NA
B-12-W	(18-23')	NA	**3,200**	**46**	**0.96**	**12**	<1.0	All ND	NA
B-13-W	(18-23')	**1,400**	**9,100**	**270**	**4.0**	**390**	**52.4**	All ND	NA
B-14-W	(18-23')	<50	**0.094**	<0.50	<1.0	<1.0	<1.0	All ND	NA
Remedial Investigation, Gribi Associates, May 2012									
B-15-W	(21-24 ft)	NA	<50	<0.50	<0.50	<0.50	<1.0	All ND	**1.4** 1,2-Dichloroethane
B-16-W	(24 ft)	NA	<50	<0.50	<0.50	<0.50	<1.0	All ND	**1.0** 1,2-Dichloroethane
B-17-W	(12 ft)	NA	<50	<0.50	<0.50	<0.50	<1.0	All ND	All ND
B-18-W	(13-24')	NA	**560**	<0.50	<0.50	<0.50	<1.0	All ND	**1.6** Sec-Butylbenzene 2.5 Naphthalene 1.3 1,2,4-Trimethylbenzene
B-19-W	(13-24')	NA	<50	<0.50	<0.50	<0.50	<1.0	All ND	All ND
B-20-W	(17-23')	NA	<50	<0.50	<0.50	<0.50	<1.0	NA	NA
B-21-W	(15-23')	NA	<50	<0.50	<0.50	<0.50	<1.0	NA	NA
B-22-W	(24-31')	NA	<50	<0.50	<0.50	<0.50	<1.0	NA	NA
Remediation Pilot Test, Gribi Associates, February 2013									
B-24-W	(24')	NA	<50	<0.50	<0.50	<0.50	<1.0	All ND	NA
B-27-W	(24')	NA	**7,900**	**1,100**	**99**	**1,500**	**1,169**	All ND	NA

Table 2

CUMULATIVE GRAB GROUNDWATER LABORATORY ANALYTICAL RESULTS

Former Maz Glass UST Site

Sample ID	Sample Depth	Groundwater Concentration, in micrograms per liter (ug/L)							
		TPH-D	TPH-G	B	T	E	X	OXY	OTHER VOCs
B-28-W	(20')	NA	**910**	<0.50	<0.50	<0.50	<1.0	All ND	NA
Soil, Water, & Vapor Investigation, Gribi Associates, August/September 2014									
B-29-W	20 feet	NA	<50	<0.50	**0.72**	<0.50	<1.0	All ND	<1.0 Naphthalene
B-30-W	20 feet	NA	<50	<0.50	<0.50	<0.50	<1.0	All ND	<1.0 Naphthalene
Soil, Water, & Vapor Investigation, Gribi Associates, March 2015									
B-32-GW	12.91 ft	**1,600**	<50	**1.6**	<0.50	**1.2**	<1.0	**70** TBA	
B-33-GW	13.42 ft	**720**	<50	**0.57**	<0.50	**2.0**	<1.0	All ND	
B-34-GW	13.19 ft	**700**	<50	**2.2**	**1.1**	**1.7**	**1.8**	**82** TBA	
ESL		**100**	**100**	**27**	**9.50E+04**	**310**	**3.70E+04**	Various	NL 1,2,4-Trimethyl benzene NL 1,3,5-Trimethyl benzene NL Isopropyl benzene 100 1,2-Dichloroethane NL Sec-Butylbenzene NL n-Butylbenzene 160 Naphthalene

Table Notes:

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene,

T = Toluene

E = Ethylbenzene

X = Xylenes

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 constituents

ESL = 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, May 2013.

Table 3
CUMULATIVE GROUNDWATER LABORATORY ANALYTICAL RESULTS
Former Maz Glass UST Site

Well ID	Date	GW Depth	GW Elev.	Groundwater Concentration, in micrograms per liter (ug/L)												
				TPH-G	TPH-D	TPH-HO	B	T	E	X	OXY	Cr6	Br	N	SVOCs	Other VOCs
MW-1	5/18/2012	8.42	30.54	**17,000**	–	–	**1,300**	**29**	**770**	**260**	All ND	–	–	–	–	–
<38.96>	9/13/2012	10.55	28.41	**13,000**	–	–	**630**	**10**	**780**	**86.7**	All ND	–	–	–	–	–
	11/9/2012	9.72	29.24	**15,000**	–	–	**1,200**	**21**	**1,100**	**283**	All ND	–	–	–	–	–
	2/20/2013	8.34	30.62	**9,800**	–	–	**970**	**15**	**860**	**171.5**	All ND	–	–	**75**	–	–
	6/4/2013	9.39	29.57	**8,600**	–	–	**880**	**15**	**770**	**121.2**	All ND	–	–	**74**	–	–
	Ozone Injection Started on September 9, 2013															
	9/26/2013	10.38	28.58	**16,000**	–	–	**220**	**8.9**	**610**	**152.4**	All ND	<0.20	**0.091**	**120**	–	–
	12/30/2013	9.92	29.04	**4,700**	–	–	**62**	**1.5**	**110**	**62.75**	All ND	–	–	**23**	–	–
	Ozone Injection Stopped on February 7, 2014															
	3/7/2014	6.56	32.40	**5,600**	–	–	**320**	**8.4**	**370**	**89.7**	All ND	<0.20	**0.047**	**68**	–	–
	5/27/2014	9.77	29.19	**2,900**	–	–	**180**	**4.3**	**290**	**38.51**	All ND	–	–	**24**	–	–
	Ozone Injection Resumed on August 5, 2014															
	9/29/2014	11.25	27.71	**400**	<500	**960**	<0.50	<0.50	**1.1**	**1.3**	**38** TBA	–	–	<1.0	All ND	**7.0** 1,3,5-Trimethylbenzene **4.3** 1,2,4-Trimethyhlbenene
	Ozone Injection Stopped on October 24, 2014															
	12/7/2014	6.01	32.95	**12,000**		–	**250**	**2.8**	**270**	**54.51**	All ND	–	–	–	–	–
	1/29/2015	8.91	30.05	**15,000**		–	**240**	**3.6**	**210**	**59.51**	All ND	–	–	–	–	–
	3/12/2015	8.28	30.68	**3,700**	**1,300**	–	**210**	**2.3**	**120**	**63**	All ND	–	–	**19**	–	**8.5** b-Butylbenzene **2.9** sec-Butylbenzene **16** Isopropylbenzene **2.1** p-Isopropylbenzene **40** n-Propylbenzene **28** 1,3,5-Trimethylbenzene **45** 1,2,4-Trimethylbenzene
MW-2	5/18/2012	8.78	30.18	**10,000**	–	–	**610**	**26**	**340**	**69**	All ND	–	–	–	–	–
<38.96>	9/13/2012	10.64	28.32	**11,000**	–	–	**990**	**27**	**460**	**42.9**	All ND	–	–	–	–	–
	11/9/2012	9.57	29.39	**17,000**	–	–	**750**	**19**	**280**	**64.9**	All ND	–	–	–	–	–
	2/20/2013	8.86	30.1	**8,200**	–	–	**860**	**29**	**410**	**70**	All ND	–	–	**29**	–	–
	6/4/2013	9.86	29.1	**12,000**	–	–	**870**	**23**	**410**	**43.8**	All ND	–	–	**46**	–	–
	Ozone Injection Started on September 9, 2013															
	9/26/2013	13.32	25.64	**930**	–	–	**39**	**5.6**	**26**	**20**	All ND	**1.1**	**0.09**	**13**	–	–
	12/30/2013	10.33	28.63	**270**	–	–	**7.9**	<0.50	**2.9**	<1.0	**20** TBA	–	–	<1.0	–	–
	Ozone Injection Stopped on February 7, 2014															
	3/7/2014	6.95	32.01	**440**	–	–	**41**	**0.91**	**4.2**	**2.9**	All ND	<0.20	**0.13**	**4.2**	–	–
	5/27/2014	9.95	29.01	**1,200**	–	–	**250**	**5.9**	**34**	**14.2**	All ND	–	–	**8.1**	–	–
	Ozone Injection Resumed on August 5, 2014															
	9/29/2014	11.28	27.68	**180**	<500	<500	**4.5**	<0.50	**0.73**	<1.0	**87** TBA	–	–	<1.0	ALL ND	ALL ND
	Ozone Injection Stopped on October 24, 2014															

Table 3
CUMULATIVE GROUNDWATER LABORATORY ANALYTICAL RESULTS
Former Maz Glass UST Site

Well ID	Date	GW Depth	GW Elev.	Groundwater Concentration, in micrograms per liter (ug/L)												
				TPH-G	TPH-D	TPH-HO	B	T	E	X	OXY	Cr6	Br	N	SVOCs	Other VOCs
	12/7/2014	6.15	32.81	**430**	–	–	**41**	**1.1**	**4.3**	**3.4**	**25** TBA	–	–	–	–	–
	1/29/2015	8.63	30.33	**6,900**	–	–	**180**	**5.4**	**37**	**19.2**	All ND	–	–	–	–	–
	3/12/2015	8.3	30.66	**3,200**	**1,100**	–	**270**	**5.4**	**61**	**7.7**	**90** TBA	–	–	**6.3**	–	**8.5** n-Butylbenzene **2.9** sec-Butylbenzene **16** Isopropylbenzene **2.1** p-Isopropylbenzene **40** n-Propylbenzene **28** 1,3,5-Trimethylbenzene **45** 1,2,4-Trimethylbenzene
MW-3	5/18/2012	8.61	30.23	**13,000**	–	–	**1,400**	**36**	**350**	**378**	All ND	–	–	–	–	–
<38.84>	9/13/2012	10.3	28.54	**12,000**	–	–	**1,800**	**25**	**680**	**565.5**	All ND	–	–	–	–	–
	11/9/2012	9.25	29.59	**17,000**	–	–	**2,000**	**32**	**540**	**318.6**	All ND	–	–	–	–	–
	2/20/2013	8.8	30.04	**12,000**	–	–	**1,400**	**15**	**330**	**43.9**	All ND	–	–	**8.4**	–	–
	6/4/2013	9.49	29.35	**12,000**	–	–	**1,400**	**11**	**89**	**32.4**	All ND	–	–	**13**	–	–
	Ozone Injection Started on September 9, 2013															
	9/26/2013	10.89	27.95	**5,500**	–	–	**190**	**2.8**	**42**	**27**	All ND	<0.20	**0.096**	**18**	–	–
	12/30/2013	14.59	24.25	**380**	–	–	**8.3**	<0.50	**2.3**	**1.6**	All ND	–	–	<1.0	–	–
	Ozone Injection Stopped on February 7, 2014															
	3/7/2014	6.99	31.85	**400**	–	–	**31**	**0.75**	**2.6**	**2.9**	All ND	<0.20	**0.083**	**1.9**	–	–
	5/27/2014	9.63	29.21	**510**	–	–	**120**	**1.3**	**9.8**	**2.8**	All ND	–	–	<1.0	–	–
	Ozone Injection Resumed on August 5, 2014															
	9/29/2014	10.31	28.53	<50	<500	<500	**2.3**	<0.50	<0.50	<1.0	All ND	–	–	<1.0	ALL ND	ALL ND
	Ozone Injection Stopped on October 24, 2014															
	12/7/2014	6.23	32.61	**1,900**	–	–	**290**	**1.8**	**2.1**	**12.4**	**30** TBA	–	–	–	–	–
	1/29/2015	8.97	29.87	**3,100**	–	–	**110**	**0.57**	**9.1**	**1.3**	**22** TBA	–	–	–	–	–
	3/12/2015	8.07	30.77	**190**	**830**	–	**50**	<0.50	**2.7**	<1.0	**53** TBA	–	–		–	**1.5** Isopropylbenzene **1.3** n-Propylbenzene **1.3** 1,2,4-Trimethylbenzene
MW-4	5/18/2012	8.28	30.2	**10,000**	–	–	**82**	**32**	**330**	**278**	All ND	–	–	–	–	–
<38.48>	9/13/2012	8.8	29.68	**10,000**	–	–	**110**	**24**	**270**	**178.1**	All ND	–	–	–	–	–
	11/9/2012	8.06	30.42	**11,000**	–	–	**110**	**13**	**170**	**124.4**	All ND	–	–	–	–	–
	2/20/2013	8.16	30.32	**4,500**	–	–	**100**	**9.5**	**190**	**65.3**	All ND	–	–	**7.1**	–	–
	6/4/2013	8.73	29.75	**6,300**	–	–	**72**	**6.2**	**61**	**48.4**	All ND	–	–	**12**	–	–
	Ozone Injection Started on September 9, 2013															
	9/26/2013	9.76	28.72	**12,000**	–	–	**48**	**3.7**	**70**	**18.2**	All ND	<0.20	**0.056**	**13**	–	–
	12/30/2013	9.81	28.67	**7,600**	–	–	**50**	**6.6**	**68**	**104.3**	All ND	–	–	**37**	–	–
	Ozone Injection Stopped on February 7, 2014															
	3/7/2014	6.76	31.72	**3,100**	–	–	**38**	**4.3**	**51**	**76.5**	All ND	<0.020	**0.016**	**20**	–	–
	5/27/2014	9.11	29.37	**2,900**	–	–	**47**	**3.5**	**68**	**68.6**	All ND	–	–	<1.0	–	–

Table 3
CUMULATIVE GROUNDWATER LABORATORY ANALYTICAL RESULTS
Former Maz Glass UST Site

Well ID	Date	GW Depth	GW Elev.	Groundwater Concentration, in micrograms per liter (ug/L)											
				TPH-G	TPH-D	TPH-HO	B	T	E	X	OXY	Cr6	Br	N	SVOCs	Other VOCs
Ozone Injection Resumed on August 5, 2014																
	9/29/2014	11.19	27.29	**5,600**	**2,200**	**4,900**	**16**	**0.78**	**6.1**	**9.04**	All ND	–	**–**	<1.0	All ND	**1.3** sec-Butylbenzene **2.8** Isopropylbenzene **2.9** p-Isopropylbenzene **5.7** n-Propylbenzene **22** 1,3,5-Trimethylbenzene **20** 1,2,4-Trimethylbenzene
Ozone Injection Stopped on October 24, 2014																
	12/7/2014	5.82	32.66	**5,700**	–	–	**28**	**2.9**	**30**	**23.2**	All ND	–	–	–	–	–
	1/29/2015	7.70	30.78	**43,000**	–	–	**50**	**7.7**	**70**	**79.5**	All ND	–	–	–	–	–
	3/12/2015	7.04	31.44	**2,700**	**1,500**	–	**41**	**7.7**	**52**	**41.2**	All ND	–	–	**18**	–	**6.4** n-Butylbenzene **3.1** sec-Butylbenzene **13** Isopropylbenzene **1.6** p-Isopropylbenzene **21** n-Propylbenzene **8.4** 1,3,5-Trimethylbenzene **40** 1,2,4-Trimethylbenzene
Enviromental Screening Levels				**100**	**110**	**NL**	**27**	**95,000**	**310**	**37,000**	**110 TBA**	**21**	**NL**	**160**	**Various**	**Various**

TABLE NOTES

GW Elev = Groundwater mean sea level elevation

TPH-G = Total Petroleum Hydrocarbons as gasoline

B = Benzene,

T = Toluene

E = Ethylbenzene

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-HO = Total Petroleum Hydrocarbons as Heating Oil

X = Xylenes

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

Cr6 = Hexavalent Chromium

Br = Bromate

N = Naphthalene.

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

All ND = No detectable concentrations of all analytes.

– = Not analyzed for this analyte.

SVOCs = semi-volatile organic compounds

VOCs = volatile organic compounds

<1.0 = Not detected above the expressed value.

ESL = 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, December 2013, Table E-1, Groundwater to Indoor Air, fine grained soils, residential land use.

NL = Not Listed

Table 4
CUMULATIVE SOIL GAS LABORATORY ANALYTICAL RESULTS
Former Maz Glass UST Site

Sample ID	Date	Sample Depth	TPH-D (ug/m3)	TPH-G (ug/m3)	B (ug/m3)	T (ug/m3)	E (ug/m3)	X (ug/m3)	Other (ug/m3)	Methane (%)	CO2 (%)	N (%)	O2 (%)	Helium (%)
SOIL GAS SAMPLES														
SG-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 = **310** Heptane = **46** Hexane = **1,000** 1,3,5-TMB = **56**	**0.017**	**3.87**	**51.0**	**13.2**	<1.57
	9/25/2014	5.5 ft	NA	<7,170	<160	<190	<220	<220	Cyclohexane = **1,900** Hexane = **1,000**	**0.0077**	**5.3**	**58.3**	**2.01**	0.00
	12/7/2014	Sucked water; did not sample												
	1/29/2015		NA	<7,170	<3.3	<3.8	<4.4	<8.8	Cyclohexane = **53** Heptane = **14** Hexane = **42** TCE = **16**	**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	Did not attempt to sample due to shallow groundwater depths												
	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 = **13**	**0.024**	<1.54	**52.3**	**5.87**	<1.54
	12/7/2014	Did not attempt to sample due to shallow groundwater depths												
	1/29/2015		NA	**440,000**	<160	<190	<220	<220	Cyclohexane = **52,000** Heptane = **9,800** Hexane = **26,000**	**0.0121**	**6.49**	**64.5**	<1.72	0.00
	3/11/2015		**120,000 (A)**	**420,000**	<160	<190	<220	<220	Cyclohexane = **35,000** Heptane = **150,000** Hexane = **9,700**	**38**	**8.01**	**68.5**	**2.08**	0.00
(Dup)	3/11/2015		NA	**485,000**	<160	<190	<220	<220	Cyclohexane = **48,000** Heptane = **37,000** Hexane = **20,000**	**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

Table 4
CUMULATIVE SOIL GAS LABORATORY ANALYTICAL RESULTS
Former Maz Glass UST Site

Sample ID	Date	Sample Depth	TPH-D (ug/m3)	TPH-G (ug/m3)	B (ug/m3)	T (ug/m3)	E (ug/m3)	X (ug/m3)	Other (ug/m3)	Methane (%)	CO2 (%)	N (%)	O2 (%)	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	Sucked water; did not sample												
	1/29/2015		NA	<7,170	<3.3	<3.8	<4.4	<8.8	Tetrahydrofuran = **47** Tetrachloroethene = **8.7** 2-Butanone (MEK) = **47**	**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 = **4.8** Hexane = **4.0** Tetrachloroethene = **39** 1,1,2-Trichloroethane = **17** Trichloroethene = **11**	**0.17**	<1.85	**71.1**	**11**	0.00
SUB-SLAB VAPOR 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	NA	<7,170	<3.3	<3.8	<8.8	All ND	<0.00050	NA	NA	NA	NA
SS-2	3/18/2015	0.5 ft	NA	NA	<16	**35**	<22	**130**	Chloroform = **36** 4-Ethyltoluene = **31** 1,2,4-Trimethylbenzene = **140** 1,3,5-Trimethylbenzene = **74**	**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 = **27** 4-Ethyltoluene = **6.3** MIBK = **5.1** Tetrachloroethene = **4.3** 1,2,4-Trimethylbenzene = **19** 1,3,5-Trimethylbenzene = **6.8**	**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 = **66** 2-Butanone (MEK) = **19** 4-Methyl-2-pentanone = **1,300** Cumene = **6.1** 4-Ethyltoluene = **7.6** 1,2,4-Trimethylbenzene = **19**	<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 = **27** 4-Methyl-2-pentanone = **5.9**	<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	TPH-D (ug/m3)	TPH-G (ug/m3)	B (ug/m3)	T (ug/m3)	E (ug/m3)	X (ug/m3)	Other (ug/m3)	Methane (%)	CO2 (%)	N (%)	O2 (%)	Helium (%)
SS-6	3/25/2015	0.5 ft	NA	**9,000**	<3.4	**25**	**30**	**252**	Acetone = **120** 2-Butanone (MEK) = **14** Tetrahydrofuran = **7.7** 2,2,4-Trimethylpentane = **16** 4-Methyl-2-pentanone = **500** 4-Ethyltoluene = **5.4** 1,2,4-Trimethylbenzene =**8.1**	**0.32**	**13**	NA	**1.6**	<0.11
SS-7	3/25/2015	0.5 ft	NA	**260,000**	<27	<32	<37	<37	Acetone = **410**	**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 = **34** Chloroform = **9.1** Carbon Tetrachloride = **78** 4-Methyl-2-pentanone = **12**	<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 = **34**	<0.00021	**0.12**		**20**	<0.10
SS-11	3/25/2015	0.5 ft	NA	<440	**6.0**	**6.2**	**6.0**	**28**	Aceton = **38** Carbon Disulfide = **68** 4-Methyl-2-pentanone = **52** Tetrachloroethene = **62**	<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
T = Toluene
E = Ethylhbenzene
X = Xylenes
1,2,4-TMB = 1,2,4-Trimethylbenzene
ug/m3 = micrograms per cubic meter
ppmv = parts per million by volume
% = Percent
Other = Other VOCs, includes approxmately 47 individual VOC compounds
<7,170 = Not detected at or above the expressed value.
ND = Not detected above laboratory detection levels.
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."

Table 5
EXCAVATION SOIL LABORATORY ANALYTICAL RESULTS
Former Maz Glass UST Site

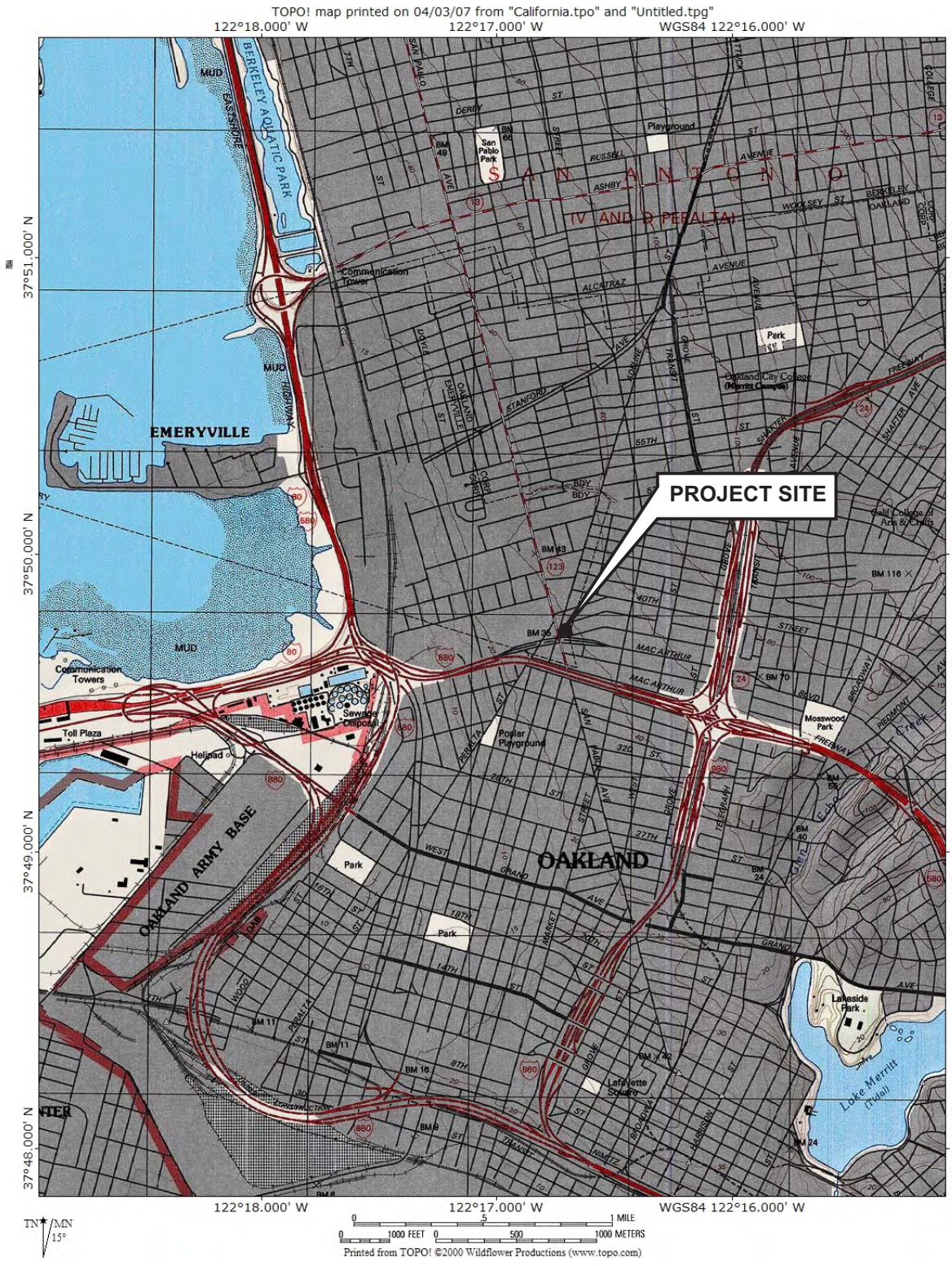
Sample ID	Date	Sample Depth	POG (mg/Kg)	TPH-D (mg/Kg)	TPH-G (mg/Kg)	MTBE (mg/Kg)	B (mg/Kg)	T (mg/Kg)	E (mg/Kg)	X (mg/Kg)
EbW9ft 6in	9/25/2015	9 ft	<10	<1.0	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
EbE9ft 6in	9/25/2015	9 ft	<50	<1.0	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
SWNE7ft 6in	9/25/2015	7 ft	<50	<1.0	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
SWNW7ft 6in	9/25/2015	7 ft	<50	<1.0	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
SP1-4	9/25/2015	NA	<50	**1.5**	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
Soil ESL			**500**	**100**	**100**	**0.023**	**0.044**	**2.9**	**3.3**	**2.3**

Table Notes

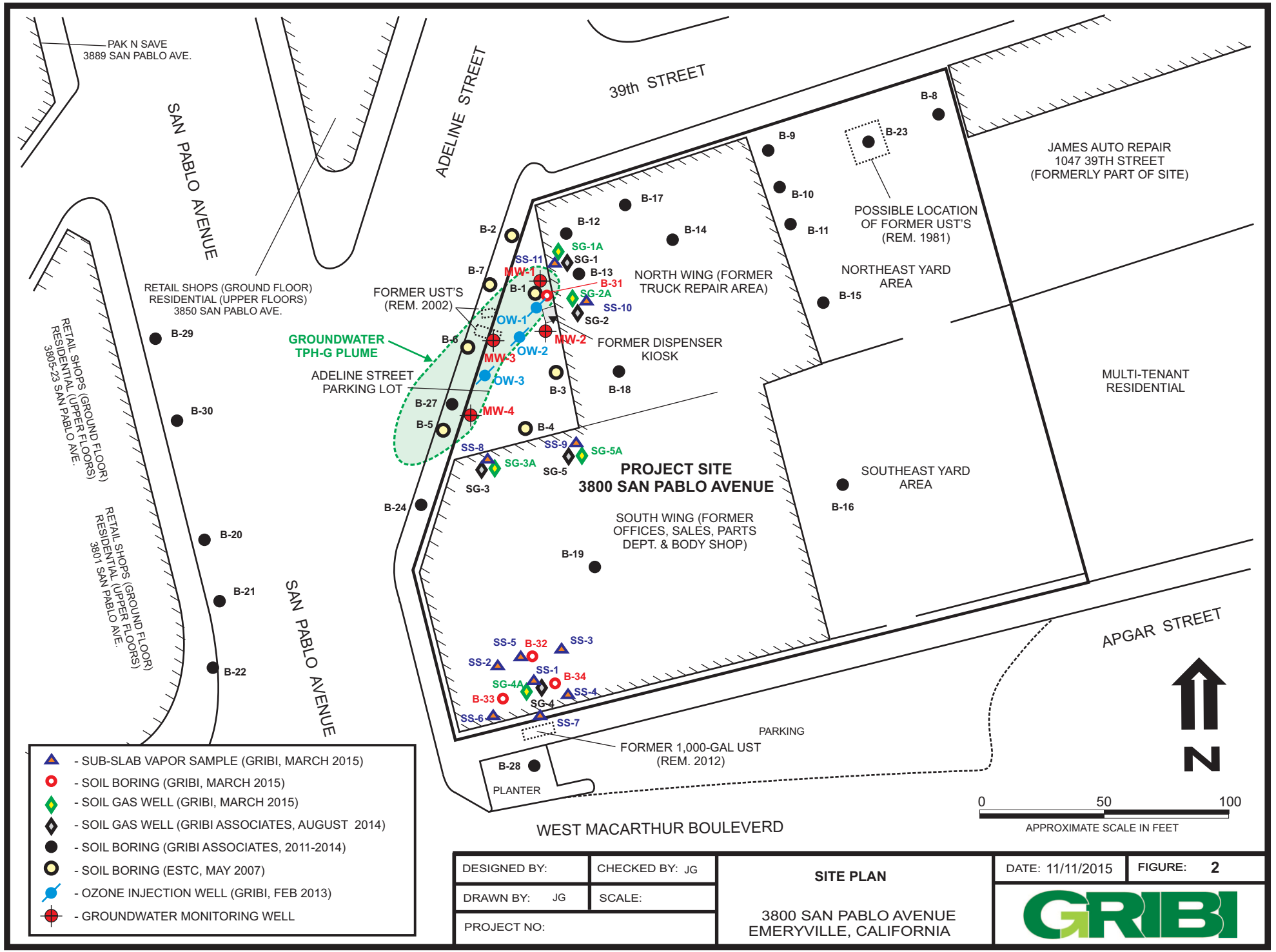
POG = Total Petroleum Oil and Grease
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-G = Total Petroleum Hydrocarbons as Gasoline
MTBE = Methyl Tertiary Butyl Ether
B = Benzene
T = Toluene
E = Ethylhbenzene
X = Xylenes
mg/Kg = milligrams per kilogram
NA = Not applicable

ESL = Environmental Screening Levels, as contained in Screening for Environmental Concerns at Sites with Contaminated Soil and

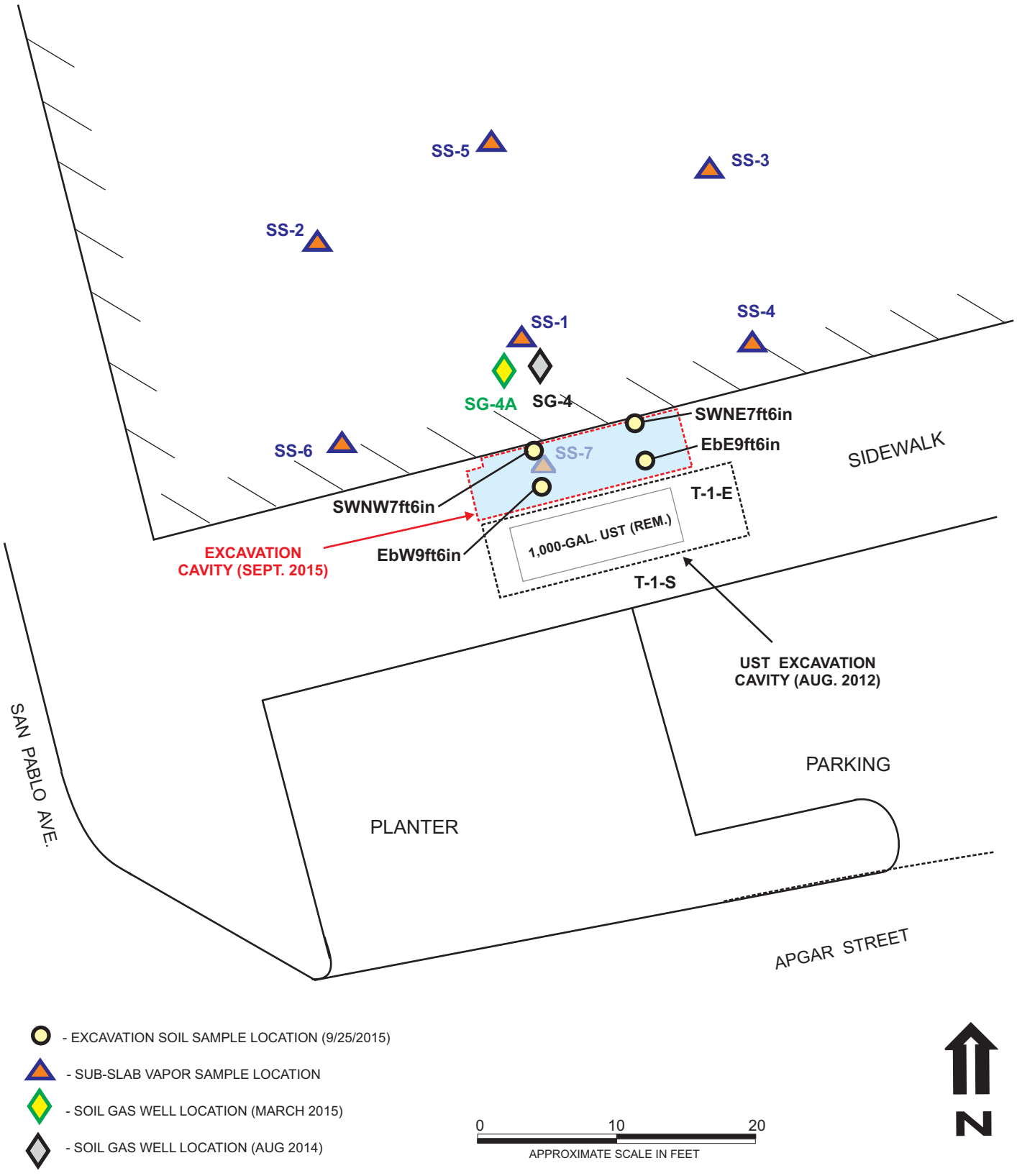
FIGURES



DESIGNED BY:	CHECKED BY: JG	**SITE VICINITY MAP**	DATE: 11/11/2015	FIGURE: 1
DRAWN BY: MR	SCALE:			
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



DESIGNED BY:	CHECKED BY: JG	**SITE PLAN**	DATE: 11/11/2015	FIGURE: 2
DRAWN BY: JG	SCALE:	3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA	GRIBI	
PROJECT NO:				



DESIGNED BY:	CHECKED BY: JG	**SEPTEMBER 2015 EXCAVATION AREA & SAMPLE LOCATIONS**	DATE: 11/11/2015	FIGURE: 3
DRAWN BY: MR	SCALE:			
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		

ATTACHMENT A

LABORATORY DATA REPORTS AND CHAIN-OF-CUSTODY RECORDS

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1509A60

Report Created for: AEI Consultants

2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Nick Woods
Project P.O.:
Project Name: 348918; The Intersection

Project Received: 09/25/2015

Analytical Report reviewed & approved for release on 10/01/2015 by:

Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: 348918; The Intersection
WorkOrder: 1509A60

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1509A60
Date Received:	9/25/15 14:50	**Extraction Method:**	SM5520E/F
Date Prepared:	9/29/15	**Analytical Method:**	SM5520E/F
Project:	348918; The Intersection	**Unit:**	mg/Kg

Petroleum Oil & Grease with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EbW9ft 6in	1509A60-001A	Soil	09/25/2015 10:15	O&G	110856

Analytes	Result	RL	DF	Date Analyzed
POG	ND	10	1	09/29/2015 11:30

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EbE9ft 6in	1509A60-002A	Soil	09/25/2015 11:30	O&G	110856

Analytes	Result	RL	DF	Date Analyzed
POG	ND	50	1	09/29/2015 11:35

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SWNE7ft 6in	1509A60-003A	Soil	09/25/2015 11:40	O&G	110856

Analytes	Result	RL	DF	Date Analyzed
POG	ND	50	1	09/29/2015 11:40

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SWNW7ft 6in	1509A60-004A	Soil	09/25/2015 11:00	O&G	110856

Analytes	Result	RL	DF	Date Analyzed
POG	ND	50	1	09/29/2015 11:45

Analyst(s): HN

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1509A60
Date Received:	9/25/15 14:50	**Extraction Method:**	SW5030B
Date Prepared:	9/28/15	**Analytical Method:**	SW8021B/8015Bm
Project:	348918; The Intersection	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EbW9ft 6in	1509A60-001A	Soil	09/25/2015 10:15	GC19	110776

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	09/28/2015 15:46
MTBE	ND	0.050	1	09/28/2015 15:46
Benzene	ND	0.0050	1	09/28/2015 15:46
Toluene	ND	0.0050	1	09/28/2015 15:46
Ethylbenzene	ND	0.0050	1	09/28/2015 15:46
Xylenes	ND	0.0050	1	09/28/2015 15:46

Surrogates	REC (%)	Limits	
2-Fluorotoluene	122	70-130	09/28/2015 15:46

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EbE9ft 6in	1509A60-002A	Soil	09/25/2015 11:30	GC19	110776

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	09/28/2015 16:17
MTBE	ND	0.050	1	09/28/2015 16:17
Benzene	ND	0.0050	1	09/28/2015 16:17
Toluene	ND	0.0050	1	09/28/2015 16:17
Ethylbenzene	ND	0.0050	1	09/28/2015 16:17
Xylenes	ND	0.0050	1	09/28/2015 16:17

Surrogates	REC (%)	Limits	
2-Fluorotoluene	117	70-130	09/28/2015 16:17

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1509A60
Date Received:	9/25/15 14:50	**Extraction Method:**	SW5030B
Date Prepared:	9/28/15	**Analytical Method:**	SW8021B/8015Bm
Project:	348918; The Intersection	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SWNE7ft 6in	1509A60-003A	Soil	09/25/2015 11:40	GC19	110776

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	09/28/2015 17:50
MTBE	ND	0.050	1	09/28/2015 17:50
Benzene	ND	0.0050	1	09/28/2015 17:50
Toluene	ND	0.0050	1	09/28/2015 17:50
Ethylbenzene	ND	0.0050	1	09/28/2015 17:50
Xylenes	ND	0.0050	1	09/28/2015 17:50

Surrogates	REC (%)	Limits	
2-Fluorotoluene	112	70-130	09/28/2015 17:50

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SWNW7ft 6in	1509A60-004A	Soil	09/25/2015 11:00	GC19	110776

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	09/28/2015 18:21
MTBE	ND	0.050	1	09/28/2015 18:21
Benzene	ND	0.0050	1	09/28/2015 18:21
Toluene	ND	0.0050	1	09/28/2015 18:21
Ethylbenzene	ND	0.0050	1	09/28/2015 18:21
Xylenes	ND	0.0050	1	09/28/2015 18:21

Surrogates	REC (%)	Limits	
2-Fluorotoluene	112	70-130	09/28/2015 18:21

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1509A60
Date Received:	9/25/15 14:50	**Extraction Method:**	SW5030B
Date Prepared:	9/28/15	**Analytical Method:**	SW8021B/8015Bm
Project:	348918; The Intersection	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP1-4	1509A60-005A	Soil	09/25/2015 13:00	GC19	110776

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	09/28/2015 18:52
MTBE	ND	0.050	1	09/28/2015 18:52
Benzene	ND	0.0050	1	09/28/2015 18:52
Toluene	ND	0.0050	1	09/28/2015 18:52
Ethylbenzene	ND	0.0050	1	09/28/2015 18:52
Xylenes	ND	0.0050	1	09/28/2015 18:52
Surrogates	REC (%)	Limits		
2-Fluorotoluene	116	70-130		09/28/2015 18:52

Analyst(s): IA

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1509A60
Date Received:	9/25/15 14:50	**Extraction Method:**	SW3550B
Date Prepared:	9/28/15	**Analytical Method:**	SW8015B
Project:	348918; The Intersection	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EbW9ft 6in	1509A60-001A	Soil	09/25/2015 10:15	GC11B	110777

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	09/29/2015 04:03

Surrogates	REC (%)	Limits	
C9	105	70-130	09/29/2015 04:03

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EbE9ft 6in	1509A60-002A	Soil	09/25/2015 11:30	GC11B	110777

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	09/28/2015 20:03

Surrogates	REC (%)	Limits	
C9	105	70-130	09/28/2015 20:03

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SWNE7ft 6in	1509A60-003A	Soil	09/25/2015 11:40	GC9a	110777

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	09/29/2015 10:04

Surrogates	REC (%)	Limits	
C9	101	70-130	09/29/2015 10:04

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SWNW7ft 6in	1509A60-004A	Soil	09/25/2015 11:00	GC9b	110777

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	09/30/2015 11:33

Surrogates	REC (%)	Limits	
C9	96	70-130	09/30/2015 11:33

Analyst(s): TK

(Cont.)

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1509A60
Date Received:	9/25/15 14:50	**Extraction Method:**	SW3550B
Date Prepared:	9/28/15	**Analytical Method:**	SW8015B
Project:	348918; The Intersection	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP1-4	**1509A60-005A**	**Soil**	**09/25/2015 13:00**	**GC11B**	**110777**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.5**	1.0	1	09/29/2015 06:20

Surrogates	REC (%)	Limits	
C9	106	70-130	09/29/2015 06:20

Analyst(s): TK Analytical Comments: e7,e2

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1509A60
Date Prepared:	9/29/15	**BatchID:**	110856
Date Analyzed:	9/29/15	**Extraction Method:**	SM5520E/F
Instrument:	O&G	**Analytical Method:**	SM5520E/F
Matrix:	Soil	**Unit:**	mg/Kg
Project:	348918; The Intersection	**Sample ID:**	MB/LCS-110856 1509915-001AMS/MSD

QC Summary Report for SM5520E/F

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
POG	ND	2080	50	2000	-	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
POG	2380	2340	2000	80.00	115	113	70-130	1.70	30

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1509A60
Date Prepared:	9/28/15	**BatchID:**	110776
Date Analyzed:	9/29/15	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	348918; The Intersection	**Sample ID:**	MB/LCS-110776 1509A61-014AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.652	0.40	0.60	-	109	70-130
MTBE	ND	0.113	0.050	0.10	-	113	70-130
Benzene	ND	0.105	0.0050	0.10	-	105	70-130
Toluene	ND	0.116	0.0050	0.10	-	116	70-130
Ethylbenzene	ND	0.118	0.0050	0.10	-	118	70-130
Xylenes	ND	0.377	0.0050	0.30	-	126	70-130
Surrogate Recovery							
2-Fluorotoluene	0.106	0.104		0.10	106	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		74	NR	NR	-	NR	
MTBE	NR	NR		ND<1	NR	NR	-	NR	
Benzene	NR	NR		ND<0.1	NR	NR	-	NR	
Toluene	NR	NR		ND<0.1	NR	NR	-	NR	
Ethylbenzene	NR	NR		0.4	NR	NR	-	NR	
Xylenes	NR	NR		1.5	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

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Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1509A60
Date Prepared:	9/28/15	**BatchID:**	110777
Date Analyzed:	9/28/15 - 9/29/15	**Extraction Method:**	SW3550B
Instrument:	GC9a, GC9b	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	348918; The Intersection	**Sample ID:**	MB/LCS-110777 1509A60-005AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	35.6	1.0	40	-	89	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	25.0	23.5		25	100	94	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	44.8	47.7	40	1.473	108	116	70-130	6.15	30
Surrogate Recovery									
C9	26.5	26.5	25		106	106	70-130	0	30

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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1509A60 **ClientCode: AEL**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Nick Woods
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: nwoods@aeiconsultants.com
cc/3rd Party:
PO:
ProjectNo: 348918; The Intersection

Bill to:
Accounts Payable
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.com

Requested TAT: **5 days;**

Date Received: **09/25/2015**
Date Printed: **09/28/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1509A60-001	EbW9ft 6in	Soil	9/25/2015 10:15	☐	A	A	A									
1509A60-002	EbE9ft 6in	Soil	9/25/2015 11:30	☐	A	A	A									
1509A60-003	SWNE7ft 6in	Soil	9/25/2015 11:40	☐	A	A	A									
1509A60-004	SWNW7ft 6in	Soil	9/25/2015 11:00	☐	A	A	A									
1509A60-005	SP1-4	Soil	9/25/2015 13:00	☐		A	A									

Test Legend:

1	5520E_SG_S	2	G-MBTEX_S	3	TPH(D)_S	4	
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS
Project: 348918; The Intersection
Comments:

QC Level: LEVEL 2
Client Contact: Nick Woods
Contact's Email: nwoods@aeiconsultants.com

Work Order: 1509A60
Date Received: 9/25/2015

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1509A60-001A	EbW9ft 6in	Soil	SW8015B (Diesel)	1	Stainless Steel tube 2"x3"	☐	9/25/2015 10:15	5 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		5 days		☐	
			SM5520B (O&G w/ S.G. Clean-Up)			☐		5 days		☐	
1509A60-002A	EbE9ft 6in	Soil	SW8015B (Diesel)	1	Stainless Steel tube 2"x3"	☐	9/25/2015 11:30	5 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		5 days		☐	
			SM5520B (O&G w/ S.G. Clean-Up)			☐		5 days		☐	
1509A60-003A	SWNE7ft 6in	Soil	SW8015B (Diesel)	1	Stainless Steel tube 2"x3"	☐	9/25/2015 11:40	5 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		5 days		☐	
			SM5520B (O&G w/ S.G. Clean-Up)			☐		5 days		☐	
1509A60-004A	SWNW7ft 6in	Soil	SW8015B (Diesel)	1	Stainless Steel tube 2"x3"	☐	9/25/2015 11:00	5 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		5 days		☐	
			SM5520B (O&G w/ S.G. Clean-Up)			☐		5 days		☐	
1509A60-005A	SP1-4	Soil	SW8015B (Diesel)	1	Stainless Steel tube 2"x3"	☐	9/25/2015 13:00	5 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1509A60

McCAMPBELL ANALYTICAL, INC.

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Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

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

☐ Check if sample is effluent and "J" flag is required

Report To: Nick Woods Bill To: AEI Consultants

Company: AEI Consultants

2500 Camino Diablo #200, Walnut Creek 94597

E-Mail: nwoods@aeiconsultants.com

Tele: (925) 746-6000 x1105 Fax: (925) 746-6099

Project #: 348918 Project Name: The Intersection

Project Location: 3800 San Pablo Ave

Sampler Signature: Nick Woods

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	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other w/Silica Gel Clean Up Only	Other	Other	Comments
EbW9ft 6in		9/25	10:15am	1			X				X				X	X	X																	
EbE9ft 6in		9/25	11:30am	1			X				X				X	X	X																	
SWNE7ft6in		9/25	11:40am	1			X				X				X	X	X																	
SWNW7ft6in		9/25	11:00am	1			X				X				X	X	X																	
SP 1-4		9/25	1:00pm	4			X								X	X																		

Relinquished By:	Date:	Time:	Received By:
Nick Woods Nick Woods	9/25	2:00pm	
Relinquished By:	Date:	Time:	Received By:
Jennifer Sercal	9-25	2:48pm	
Relinquished By:	Date:	Time:	Received By: 9/25 2:50

ICE/t° 2.0 COMMENTS:

GOOD CONDITION____

HEAD SPACE ABSENT____

DECHLORINATED IN LAB____

APPROPRIATE CONTAINERS____

PRESERVED IN LAB____

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**AEI Consultants**	Date and Time Received:	**9/25/2015 2:50:00 PM**
Project Name:	**348918; The Intersection**	LogIn Reviewed by:	Maria Venegas
WorkOrder №:	**1509A60** Matrix: Soil	Carrier:	Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	
Sample/Temp Blank temperature	Temp: 2°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	☐	No	☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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

28 October 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 10/17/15 10:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	10/28/15 13:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1	T152585-01	Air	10/13/15 11:57	10/17/15 10:32
SG-4A	T152585-02	Air	10/13/15 12:56	10/17/15 10:32
SG-4A (DUPLICATE)	T152585-03	Air	10/13/15 13:22	10/17/15 10:32

Katherine RunningCrane

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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	10/28/15 13:52

DETECTIONS SUMMARY

Sample ID: SS-1 **Laboratory ID:** T152585-01

No Results Detected

Sample ID: SG-4A **Laboratory ID:** T152585-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Methane	**13000**	5.0	ppm(v)	8015M	
C6-C12 (GRO)	**174000**	7170	ug/m³ Air	TO-3/TO-14 m	

Sample ID: SG-4A (DUPLICATE) **Laboratory ID:** T152585-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Methane	**15000**	5.0	ppm(v)	8015M	
C6-C12 (GRO)	**201000**	7170	ug/m³ Air	TO-3/TO-14 m	

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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	10/28/15 13:52

SS-1

T152585-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
TO-15										
Benzene	ND		3.3	ug/m³ Air	1.96	5101929	10/20/15	10/22/15	TO-15	
Toluene	ND		3.8	"	"	"	"	"	"	
Ethylbenzene	ND		4.4	"	"	"	"	"	"	
m,p-Xylene	ND		8.8	"	"	"	"	"	"	
o-Xylene	ND		4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*79.4 %*	*40-160*		"	"	"	"	
Methane by GC										
Methane	ND		5.0	ppm(v)	1	5101428	10/14/15	10/20/15	8015M	
Total Volatile Organic Compounds by TO-3 (modified)										
C6-C12 (GRO)	ND		7170	ug/m³ Air	1.96	5101928	10/19/15	10/20/15	TO-3/TO-14 m	
Fixed Gases ASTM D1946-90										
Helium	ND		5.00	%	1	5101924	10/19/15	10/22/15	GC	I-02

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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	10/28/15 13:52

SG-4A

T152585-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
TO-15										
Benzene	ND		3.3	ug/m³ Air	2.05	5101929	10/20/15	10/20/15	TO-15	TO-14
Toluene	ND		3.8	"	"	"	"	"	"	TO-14
Ethylbenzene	ND		4.4	"	"	"	"	"	"	TO-14
m,p-Xylene	ND		8.8	"	"	"	"	"	"	TO-14
o-Xylene	ND		4.4	"	"	"	"	"	"	TO-14
Methane by GC										
Methane	**13000**		5.0	ppm(v)	1	5101428	10/14/15	10/20/15	8015M	
Total Volatile Organic Compounds by TO-3 (modified)										
C6-C12 (GRO)	**174000**		7170	ug/m³ Air	2.05	5101928	10/19/15	10/20/15	TO-3/TO-14 m	

Katherine RunningCrane

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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	10/28/15 13:52

SG-4A (DUPLICATE)

T152585-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
TO-15										
Benzene	ND		3.3	ug/m³ Air	2.1	5101929	10/20/15	10/20/15	TO-15	TO-14
Toluene	ND		3.8	"	"	"	"	"	"	TO-14
Ethylbenzene	ND		4.4	"	"	"	"	"	"	TO-14
m,p-Xylene	ND		8.8	"	"	"	"	"	"	TO-14
o-Xylene	ND		4.4	"	"	"	"	"	"	TO-14
Surrogate: 4-Bromofluorobenzene			*%*	*40-160*		*"*	*"*	*"*	*"*	*TO-14*
Methane by GC										
Methane	**15000**		5.0	ppm(v)	1	5101428	10/14/15	10/20/15	8015M	
Total Volatile Organic Compounds by TO-3 (modified)										
C6-C12 (GRO)	**201000**		7170	ug/m³ Air	2.1	5101928	10/19/15	10/20/15	TO-3/TO-14 m	

Katherine RunningCrane

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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	10/28/15 13:52

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5101929 - Canister Analysis											
Blank (5101929-BLK1)				Prepared: 10/19/15 Analyzed: 10/22/15							
Surrogate: 4-Bromofluorobenzene	*37.9*			*ug/m³ Air*	*36.2*		*105*	*40-160*			
Benzene	ND		3.3	"							
Toluene	ND		3.8	"							
Ethylbenzene	ND		4.4	"							
m,p-Xylene	ND		8.8	"							
o-Xylene	ND		4.4	"							
Duplicate (5101929-DUP1)		**Source: T152585-01**		Prepared: 10/19/15 Analyzed: 10/22/15							
Surrogate: 4-Bromofluorobenzene	*36.0*			*ug/m³ Air*	*36.2*		*99.4*	*40-160*			
Benzene	ND		3.3	"		ND				30	
Toluene	ND		3.8	"		ND				30	
Ethylbenzene	ND		4.4	"		ND				30	
m,p-Xylene	ND		8.8	"		ND				30	
o-Xylene	ND		4.4	"		ND				30	

Katherine RunningCrane

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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	10/28/15 13:52

Methane by GC - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5101428 - EPA 5030 GC											
Blank (5101428-BLK1)					Prepared: 10/14/15 Analyzed: 10/20/15						
Methane	ND		5.0	ppm(v)							
Duplicate (5101428-DUP1)		**Source: T152520-01**			Prepared: 10/14/15 Analyzed: 10/20/15						
Methane	ND		5.0	ppm(v)		1.51				20	

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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	10/28/15 13:52

Total Volatile Organic Compounds by TO-3 (modified) - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5101928 - Canister Analysis											
Blank (5101928-BLK1)					Prepared: 10/19/15 Analyzed: 10/20/15						
C6-C12 (GRO)	ND		7170	ug/m³ Air							
Duplicate (5101928-DUP1)		**Source: T152585-01**			Prepared: 10/19/15 Analyzed: 10/20/15						
C6-C12 (GRO)	ND		7170	ug/m³ Air		ND				30	

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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	10/28/15 13:52

Fixed Gases ASTM D1946-90 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5101924 - EPA 5030 GC											
Blank (5101924-BLK1)					Prepared: 10/19/15 Analyzed: 10/22/15						
Helium	ND		5.00	%							
Duplicate (5101924-DUP1)		**Source: T152585-01**			Prepared: 10/19/15 Analyzed: 10/22/15						
Helium	ND		5.00	%		ND				200	I-02

Katherine RunningCrane

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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	10/28/15 13:52

Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
I-02	This result was analyzed outside of the EPA recommended holding time.
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

Katherine RunningCrane

AIR LABORATORY

Chain of Custody Record

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Gribi Associates
Address: 1090 Adams St #K, Benicia, CA
Phone: 707-748-7743 Fax: 748-7763
Project Manager: J. Gribi

Date: 10/13/2015 Page: 1 Of 1
Project Name: Maz Glass
Collector: M. Rosman Client Project #:
Batch #: T152585 EDF #:

Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15 TPH-G, BTEX	8015m Methane	8015m Gasoline	Fixed Gases by TCD	Helium	Summa Can # / Comments	Laboratory ID #
SS-1	10/13	1151	1157	SG	Summa	29	5			X	X		X	X	332	01
SG-4A	10/13	1250	1256	SG	Summa	29	5			X	X		X	X	659	02
SG-4A (Duplicate)	10/13	1345	1322	SG	Summa	29	5			X	X		X	X	388	03

Relinquished by: (signature) MR	Date / Time 10/13/2015 1500	Received by: (signature) Ed Llwens	Date / Time 10/16/15 1300
Relinquished by: (signature) GSO	Date / Time 10-17-15	Received by: (signature)	Date / Time 10-17-15 1032
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers	3
Chain of Custody seals Y/N/NA	Y
Seals intact? Y/N/NA	Y
Received good condition/cold	Y

Turn around time: STD

Notes: STD. TAT 10-17-15 DM

* TO-15 SIM analysis available upon prior notification. **(Precertified Summa cans needed)**

COCAL 145857

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T152585

Client Name: Gribi Project: Maz Glass

Received by: Dan M. Date/Time Received: 10-17-15 1032

Delivered by : ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other _____

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

Temperature: cooler #1 20.2 °C +/- the CF (- 0.2°C) = 20.0 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☐Yes	☐No*	☒N/A
Custody Seals Intact on Cooler/Sample	☒Yes	☐No*	☐N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☐Yes	☐No*	☒N/A

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

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date DM 10-17-15

Comments: