March 26, 2012

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

Attention: Keith Nowell

Subject: Workplan to Conduct Soil Boring Investigation
3924 Market Street, Oakland, California
ACEH RO# 0000490; Global ID: T0600101187

Ladies and Gentlemen:

Attached please find a copy of the *Workplan to Conduct Soil Boring Investigation* 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,

Scott C. Atthowe
3924 Market Street
Oakland, CA 94608

GRIBI
ASSOCIATES

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Alameda County Department of
Environmental Health
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Alameda, CA 94502

Attention: Keith Nowell

Subject: Workplan to Conduct Soil Boring Investigation
3924 Market Street, Oakland, California
ACEH RO# 0000490; Global ID: T0600101187

Ladies and Gentlemen:

Gribi Associates is pleased to submit this soil boring investigation workplan on behalf of Mr. Scott Atthowe for the underground storage tank (UST) site located at 3924 Market Street, Oakland, California (Site) (see Figure 1 and Figure 2). The groundwater investigation will include the drilling and sampling of eight soil borings on the Site. This goal of the investigation will be to further define the extent of heavy-range petroleum hydrocarbon impacts on the Site.

1.0 SITE BACKGROUND

1.1 General Site Description

According to the USGS Oakland, West, California 7.5-Minute Quadrangle Map, the Property lies on a gently southwest-sloping plain approximately one mile east from San Francisco Bay. The elevation at the project site is approximately 60 feet above mean sea level. The Property site is located in a mixed commercial, light industrial, and residential area of north Oakland. 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.

The Property comprises a nominally square-shaped land parcel measuring approximately 200 feet by 200 feet. The Property includes an irregularly-shaped building that covers most of the parcel and actually comprises an amalgamation of an older two-story brick building on the northwest side of the site and more recent single story concrete block building additions on the northeast and southeast sides of the site. The site building has concrete slab flooring throughout. The slab flooring is slightly variable in elevation due to the different ages of construction. A few small concrete patches, possible floor drain remnants, are present in the concrete slab flooring. A partially-finished basement is present beneath the western side of the site building. This

basement, which is currently used for storage, has concrete slab flooring. A floor drain is present in the basement that appears to have been part of a drainage system that transmitted water from various floor drains throughout the bakery northward to the storm drain or sewer beneath Market Street.

A covered loading dock located on the southwest side of the site has a concrete-slabbed ramp that extends approximately two to three feet below surface grade at the loading dock. The parking/loading yard on the southwest side of the Property is concrete-paved.

The Property is currently occupied by Atthowe Fine Arts Services, which uses the Property to pack, crate, and store fine art pieces. Most of the Property building is subdivided into different areas used to store variously-sized crated art pieces.

1.2 Site Environmental Conditions

Available site documents indicates the following past activities and environmental conditions:

- The Property operated as a bakery from perhaps the mid-1920s until 1987. This facility included one 500-gallon fuel underground storage tank (UST), located in the Market Street sidewalk. A fuel dispenser associated with the UST was located adjacent to the Site building immediately east of the UST. The age of the UST is not known.

- In March 1991, the 500-gallon UST and associated piping and dispenser were removed. Two soil samples collected from the UST excavation cavity at about 9 feet in depth and one soil sample at 2 feet below removed piping showed low levels (less than 25 milligrams per kilogram, mg/kg) of Total Petroleum Hydrocarbons as Gasoline and Diesel (TPH-G and TPH-D) and low levels (less than 0.5 mg./kg) of gasoline constituents Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX).

- In June 1991, the UST excavation cavity was over excavated vertically to about 14 feet in depth. Five soil samples were collected at about 13 feet in depth and showed no detectable TPH-D, up to 210 mg/kg of TPH-G, and low levels (less than 5 mg/kg) of BTEX. The over excavation cavity was backfilled with imported pea gravel.

- In May and June 1995, three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed on the Site. MW-1 is located in an expected downgradient direction (west) from the former fuel dispenser, and wells MW-2 and MW-3 are located crossgradient and downgradient, respectively, from the former UST. Soil samples collected at about 10 feet in depth in each of the three wells showed very low to non-detectable levels of gasoline- and diesel-range hydrocarbons. Boring logs for the three wells show sand and gravel soils below approximately 14 feet in depth. Brown staining with moderate to strong odors are indicated below approximately 12 feet in depth on all three well boring logs, particularly in well boring MW-1. Quarterly groundwater sampling of the three wells for one year in

1995 and early 1996 showed very low to non-detectable levels of gasoline-range hydrocarbons and low to moderate levels of diesel-range hydrocarbons in the wells.

- In August 1999, thick, black oily product was encountered in well MW-1, and in April 2000, this product was noted in all three wells. Laboratory analysis of the black oily product indicated it to be in the diesel- to motor oil-range, perhaps representing Bunker C heating oil. The report documenting these activities included a work scope to conduct historical records review to try to identify a heating oil source on the Property.

- On April 12, 2001, the Alameda County Environmental Health (ACEH) issued a letter requesting a report summarizing the historical records review and a workplan to determine the extent of the apparent heating oil release.

- ACEH issued follow-up directive letters on July 3, 2008, July 28, 2009, and September 10, 2010, generally requesting that the previously-requested workplan be submitted.

2.0 DESCRIPTION OF RECENT FIELD ACTIVITIES

2.1 Groundwater Monitoring Activities

On January 17, 2012, Gribi Associates personnel attempted to measure product thicknesses in the three site wells. However, the oily product in the three wells was too viscous to measure, using both a water/product interface probe and a disposable bailer. In both cases, the tool (interface probe or bailer) would not sink through the residue, but would simply comp to rest on top of it. With the bailer, only after dropping the bailer repeatedly from several feet above the residue, were we able to slowly extend the bailer into the product.

In all three wells, the dark brown to black viscous residue had a thickness of approximately 1.5 feet, and the groundwater beneath the sludge was clear. The residue had a crude oil hydrocarbon odor. In order to assess this residue, we collected a sample of product and water from MW-2 in a pint canning jar with sealing lid. This sample was labeled and chilled for transport to the laboratory under formal chain of custody.

The laboratory data report, along with the chain-of-custody and laboratory chromatogram, is contained in Attachment A. Because the product was semi-solid, the lab results were reported in milligrams per kilogram (mg/kg). Results of the lab analysis showed 890 mg/kg of TPH-G, 20,000 mg/kg of TPH-D, and 29,000 mg/kg of TPH-MO, with no detectable BTEX, SVOCs, or VOCs except 0.65 mg/kg of sec-Butylbenzene. The laboratory chromatogram for this sample indicates a very heavy hydrocarbon (C_{20} -C_{40} range).

2.2 Electromagnetic Survey

On February 23, 2012, ForeSite conducted an electromagnetic survey to assess whether or not underground storage tanks (USTs) or other underground anomalies were present inside or outside the Site building. Thus, it appears that the fuel oil UST, if present in the past, was removed and is no longer present on the Site.

3.0 REVIEW OF HISTORICAL RECORDS

In order to assess potential historical sources for the black residue product in the site wells, Gribi Associates reviewed historical aerial photos, historical Sanborn Maps, and a city directories abstract for the site and site vicinity. Results of these activities are summarized in the following sections.

3.1 Historical Aerial Photos Review

Historical aerial photos from 1939, 1946, 1958, 1965, 1982, 1993, and 1998 were obtained from EDR. Copies of selected aerial photos are contained in Appendix B. Information obtained from the aerial photos review is summarized below.

AERIAL PHOTOS REVIEW

Date and Scale of Photo	*Feature Noted in Photo*	
	Property	*Site Vicinity*
1939 (1" = 555')	• Two buildings are present, one on the northwest side and the other on the southwest side of the site.	• Site vicinity is primarily residential. • Hawthorn School is present on city block south of site.
1946 (1" = 655')	• Generally same as previous.	• Generally same as previous.
1958 (1" =555')	• Generally same as previous.	• Generally same as previous. • U.S. Interstate 880 present approximately three blocks south of the Property.
1965 (1" = 333')	• Generally same as previous. • Main bakery building on northwest side of site has been extended to the east. • Building on southwest corner of site no longer present.	• Generally same as previous. • School building is present on parcel immediately southeast of site.
1974 (1" = 533')	• Generally same as previous and current conditions. • Building on southeast side of site is present.	• Generally same as previous and current conditions.
1982 (1" = 690')	• Generally same as previous and current conditions.	• Generally same as previous and current conditions..

AERIAL PHOTOS REVIEW		
Date and Scale of Photo	*Feature Noted in Photo*	
	Property	*Site Vicinity*
1993 (1" = 666')	• Generally same as previous and current conditions.	• Generally same as previous and current conditions.
1998 (1" = 666')	• Generally same as previous and current conditions.	• Generally same as previous and current conditions.
2005 (1" = 604')	• Generally same as previous and current conditions.	• Generally same as previous and current conditions.

3.2 Historical Sanborn Maps Review

Gribi Associates obtained copies of Sanborn Fire Insurance Maps for the project site from Environmental Data Resources (EDR) for years 1902, 1911,1951, 1952, 1967, and 1969. Copies of key maps are included in Appendix C. Information obtained from the Sanborn maps review is summarized below.

Property

- On the 1902 and 1911 maps, the Property is vacant; The Property is surrounded by sparse residential dwellings.

- On the 1951 and 1952 maps, the north (main) part of the site building is shown, with the partial northeast building extension. The building is labeled as "Bakery" and includes ovens in the middle of the building and a small boiler room on the north side of the building. Possible Shops are present along the west side of main building, along Market Street. A square apartment building is present on the southwest corner of the Property, and residences are present on the east edge of the Property.

- On the 1967 and 1969 maps, the Property building extends further northeast to include the entire northeast building addition. The building is still labeled as a bakery, with ovens in the middle of the building and a small boiler room on the north side of the building. Small shops are no longer shown along Market Street. The apartment building on the southeast side of the Property is gone and replaced by three flour ASTs. A loading dock is shown on the south side of the Property where the current site offices are located. The current southeast building addition is not present and is occupied by a residential dwelling.

Site Vicinity

- The Longfellow Public School is present immediately south across 39th Street on maps from 1911 to 1969.

- The Property is surrounded by residential dwellings to the west, north, and east on maps from 1951 to 1969.

City Directories Abstract Review

Information obtained from the City Directories Abstract review is summarized below.

- **3924 Market Street:** City directories list this address as Dave Shubert in 1938; Fred and Alma Faulkner in 1943; Grace Benson, Michael Maxim, and Edith McCoy in 1945; Albert Schopplein in 1955; and Nora Rogers in 1962. Toscana Bakery is listed in 1970 and 1980 directories, and Genau Engineering is listed in 1986. Atthowe Fine Art Services is listed in 1996 and 2000 directories.

- **3920 Market Street:** This site address is listed as Toscana Bakery in the 1955 directories. There are no other listings for this address.

- **3902/3904 Market Street:** These are addresses for the south portion of the site, at the corner of 39th Street and Market Street. The 3902 Market Street address is listed as Melvin Austin in 1955, and the 3904 Market Street address is listed as Loraine Snaer in the 1955 directory. There are no other listings for these addresses.

- **899 40th Street:** This address is listed as Toscana Bakery in the directories from 1928 to 1950. The 1955 directory lists this address as Dick's Market. There are no other listings for this address.

3.3 City of Oakland Building Department Records Review

Gribi Associates reviewed building permit records at the City of Oakland Community and Economic Development Agency offices. Records for the site indicate the following:

- **October 1957:** Building permit for a loading dock.

- **February 1960:** Building permit for a building addition on the east side the existing site building on the north side of the site.

- **January 1963:** Building permit to remove exiting bakery ovens at the site.

- **January 1969:** Variance letter which indicates that the main bakery building at 40th and

Market Street was constructed in 1927, and that the bakery was expanded south to 39th Street and east along 40th Street in 1957.

3.4 Interviews with Knowledgeable Persons

Gribi Associates staff interviewed Mr. Scott Atthowe, owner of the Site. Mr. Atthowe purchased the Site in about 1993 and redeveloped it for his fine art services business. As part of this redevelopment, many abandoned bakery items, including ovens and various baking paraphernalia, were dismantled and removed. Mr. Atthowe recalled that the previous owners, Toscana Bakery, had indicated that there may have been a fuel oil underground storage tank (UST) located in the Site parking lot adjacent to the current covered loading dock area, and that this UST was removed by Toscana prior to his purchase of the Site.

3.5 Summary of Historical Records Review Results

Our review of historical records did not uncover a specific, well defined source for the heavy-range hydrocarbons in the Site parking lot. However, Mr. Atthowe, the Site owner, did recall being told by representatives from the previous Site owner, Toscana Bakery, that a fuel oil UST was formerly located in Site parking lot and that this UST was removed in the past.

4.0 PROPOSED WORKPLAN ACTIVITIES

4.1 Project Approach

Based on both field and laboratory data, it appears likely that the thick fuel oil residue in the three wells originated from a former fuel oil UST located close to all three monitoring wells (i.e. in the southwest parking lot on the Site). Further, it is likely, based on the apparent high viscosity of the oil residue, that it has not migrated a significant distance from the source and that the residue product plume is not laterally extensive.

In order to attempt to test these hypotheses and better define the lateral and vertical extent of the heavy hydrocarbon product in the three site wells, the following workplan proposes the drilling and sampling of approximately eight soil borings (B-1 through B-8) on and adjacent to the southwest Site parking lot. The borings will be drilled using direct-push coring equipment. Because the well boring logs indicated dark hydrocarbon staining below the groundwater table, these eight borings will be drilled to approximately 20 feet in depth, approximately ten feet below the groundwater table. In addition, soil samples from the eight borings will be collected below the groundwater table.

4.2 Pre-field Activities

Prior to implementing this workplan, written approval will be obtained from Alameda County Department of Environmental Health. In addition, a drilling permit will be obtained from, and

72-hour notification will be given to, Alameda County Department of Public Works prior to implementing field activities.

Prior to conducting field activities, proposed boring and well locations will be marked with white paint, and Underground Services Alert (USA) will be notified at least 48 hours prior to drilling. Also, a private underground utility locator will be retained to provide independent clearance of the boring locations, and to provide a geophysical survey to look for potential below ground fuel oil/waste oil sources. Prior to initiating drilling activities, a Site Safety Plan will be prepared, and a tailgate safety meeting will be conducted with all site workers.

4.3 Location of Borings

The eight proposed soil boring locations, B-1 through B-8, are shown on Figure 3. Borings B-1 through B-4 will be sited along a transgradient transect within and adjacent to the expected location of the former fuel oil UST. Boring B-5 will be sited in an expected upgradient (northeast) direction, and borings B-6, B-7, and B-8 will be sited in an expected downgradient (southwest) groundwater flow direction from the expected former fuel UST location.

4.4 Drilling and Sampling of Soil Borings

The soil borings were will be drilled using direct-push hydraulically-driven soil coring equipment. For each boring, continuous soil cores will be collected in clear plastic acetate tubes, nested inside a stainless steel core barrel. After each four-foot core barrel is brought to the surface and exposed, the core will first be sliced open lengthwise along the length of the acetate tube, allowing full examination and logging of the soil core prior to sampling. Soil samples will then be collected from specific zones of interest in an acetate liner, which will be cut to the desired length (typically four to six inches), capped with teflon tape and plastic end caps, labeled and placed in cold storage pending transport to a laboratory under formal chain-of-custody. .

One grab groundwater sample will be collected from each open boring by placing 1-1/4-inch diameter well casing in the boring at first encountered groundwater (expected at approximately 11 to 13 feet in depth). Groundwater will then be sampled using a clean small diameter bailer, and poured directly into laboratory-supplied containers. Each sample container will then be tightly sealed, labeled, and placed in cold storage for transport to the laboratory under formal chain-of-custody.

All coring and sampling equipment will be thoroughly cleaned and decontaminated between each sample collection by triple rinsing first with water, then with dilute tri-sodium phosphate solution, and finally with distilled water. Following completion, the investigative borings will be grouted to match existing surface grade using a cement slurry.

Drilling cuttings will be stored onsite in DOT-approved 55-gallon drums pending analytical results; and will be disposed of offsite in accordance with all applicable State and Federal guidelines and statutes.

4.5 Laboratory Analysis of Soil and Water Samples

Approximately sixteen soil samples (two per boring) and eight grab groundwater samples (one per boring) will be analyzed for the following parameters:

- USEPA 8015C Total Petroleum Hydrocarbons ad Gasoline (TPH-G)
- USEPA 8015M Total Petroleum Hydrocarbons ad Diesel/Motor Oil (TPH-D/MO)
- USEPA 8021 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)

All samples will be analyzed by a state-certified laboratory with standard turn around on laboratory results.

4.6 Preparation of Summary Report

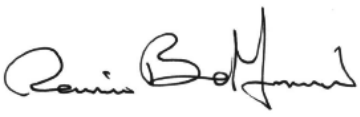
A report summarizing investigative activities and results will be prepared for submittal to ACEH and to Geotracker. This report will describe all investigative methods and results, and will include tabulated laboratory results and graphical depictions of result.

5.0 PROJECT SCHEDULE

Subject to ACEH approval, completion of proposed activities can be completed within approximately four to six weeks.

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

Very truly yours,



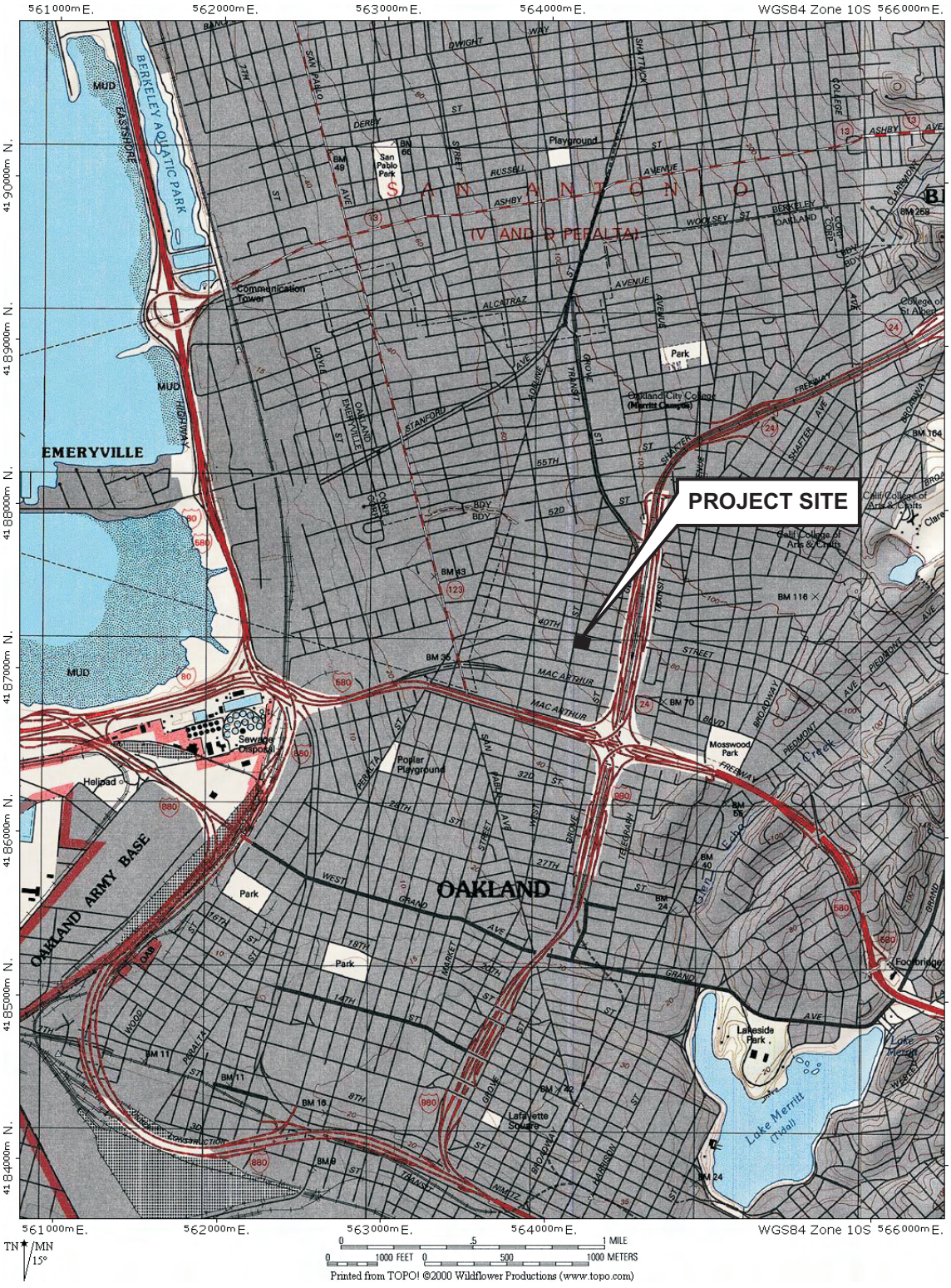
Ramin Bet-Yonan
Environmental Scientist

James E. Gribi
Registered Geologist
California No. 5843

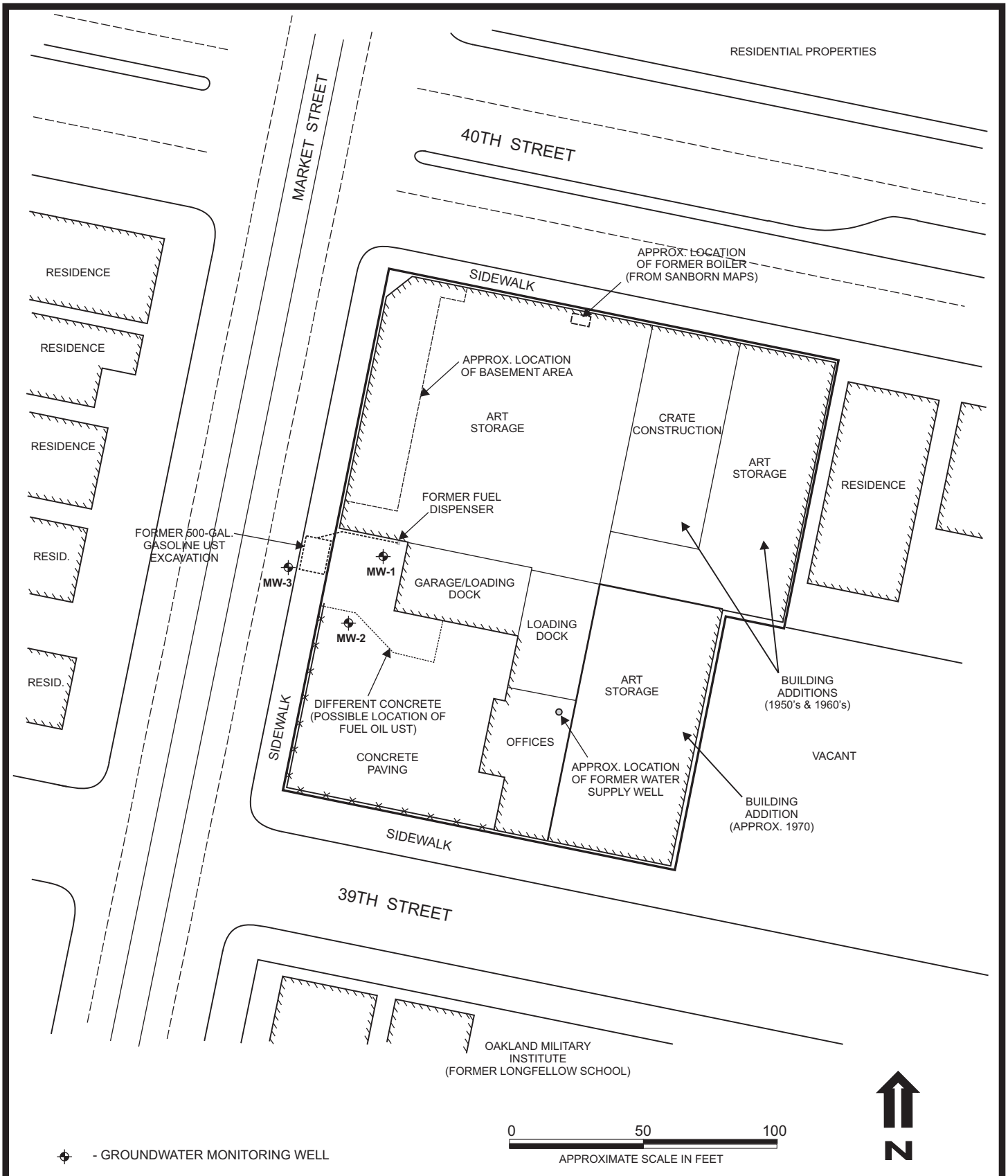
Enclosure

c Mr. Scott Atthowe

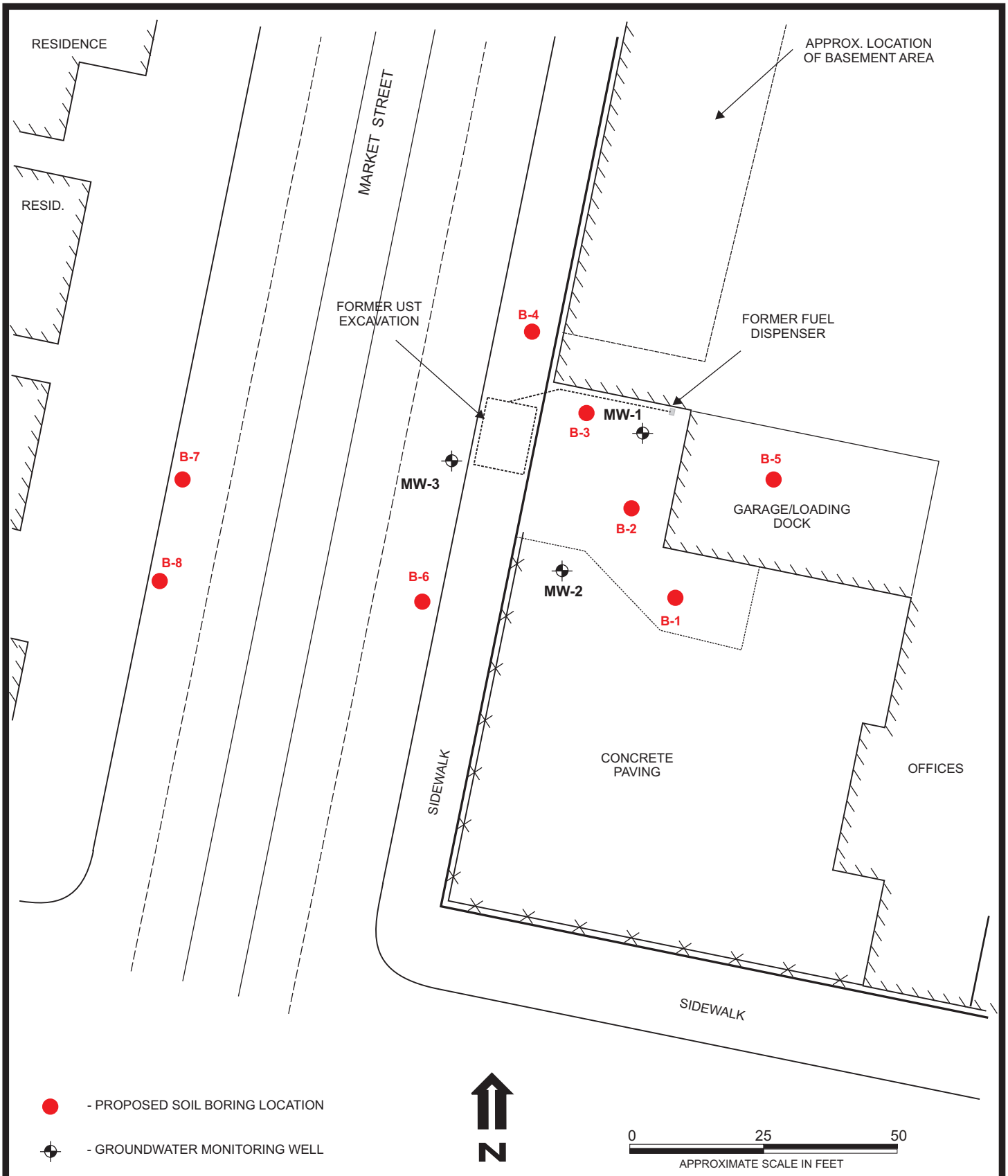
FIGURES



DESIGNED BY:	CHECKED BY: JEG	**SITE VICINITY MAP**	DATE: 03/26/2012	FIGURE: 1
DRAWN BY: JEG	SCALE:	ATTHOWE FINE ARTS FACILITY 3924 MARKED STREET OAKLAND, CALIFORNIA	GRIBI	
PROJECT NO:				



DESIGNED BY:	CHECKED BY: JEG	**SITE PLAN**	DATE: 03/26/2012	FIGURE: **2**
DRAWN BY: JEG	SCALE:	ATTHOWE FINE ARTS FACILITY 3924 MARKED STREET OAKLAND, CALIFORNIA	GRIBI	



DESIGNED BY:	CHECKED BY: JEG	**PROPOSED BORING LOCATIONS**	DATE: 03/26/2012	FIGURE: 3
DRAWN BY: JEG	SCALE:	ATTHOWE FINE ARTS FACILITY 3924 MARKED STREET OAKLAND, CALIFORNIA	GRIBI	

APPENDIX A

LABORATORY REPORT FOR
PRODUCT SAMPLE FROM MW-2

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

30 January 2012

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

RE: Atthowe-Market Street

Enclosed are the results of analyses for samples received by the laboratory on 01/20/12 09:40. 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: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Product	T120094-01	Product	01/17/12 11:00	01/20/12 09:40

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.

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: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Product

T120094-01 (Product)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**890000**	250000	ug/kg	500	2012321	01/23/12	01/23/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*111 %*		*72.6-146*		"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	**20000**	10000	mg/kg	100	2012322	01/23/12	01/27/12	EPA 8015C	
C29-C40 (MORO)	**29000**	10000	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*14.4 %*		*65-135*		"	"	"	*S-03*
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	250	ug/kg	50	2012319	01/23/12	01/26/12	EPA 8260B	R-01
Bromochloromethane	ND	250	"	"	"	"	"	"	R-01
Bromodichloromethane	ND	250	"	"	"	"	"	"	R-01
Bromoform	ND	250	"	"	"	"	"	"	R-01
Bromomethane	ND	250	"	"	"	"	"	"	R-01
n-Butylbenzene	ND	250	"	"	"	"	"	"	R-01
sec-Butylbenzene	**660**	250	"	"	"	"	"	"	R-01
tert-Butylbenzene	ND	250	"	"	"	"	"	"	R-01
Carbon tetrachloride	ND	250	"	"	"	"	"	"	R-01
Chlorobenzene	ND	250	"	"	"	"	"	"	R-01
Chloroethane	ND	250	"	"	"	"	"	"	R-01
Chloroform	ND	250	"	"	"	"	"	"	R-01
Chloromethane	ND	250	"	"	"	"	"	"	R-01
2-Chlorotoluene	ND	250	"	"	"	"	"	"	R-01
4-Chlorotoluene	ND	250	"	"	"	"	"	"	R-01
Dibromochloromethane	ND	250	"	"	"	"	"	"	R-01
1,2-Dibromo-3-chloropropane	ND	250	"	"	"	"	"	"	R-01
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	R-01
Dibromomethane	ND	250	"	"	"	"	"	"	R-01
1,2-Dichlorobenzene	ND	250	"	"	"	"	"	"	R-01
1,3-Dichlorobenzene	ND	250	"	"	"	"	"	"	R-01
1,4-Dichlorobenzene	ND	250	"	"	"	"	"	"	R-01
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	R-01
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	R-01

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Product

T120094-01 (Product)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2-Dichloroethane	ND	250	ug/kg	50	2012319	01/23/12	01/26/12	EPA 8260B	R-01
1,1-Dichloroethene	ND	250	"	"	"	"	"	"	R-01
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	R-01
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	R-01
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	R-01
1,3-Dichloropropane	ND	250	"	"	"	"	"	"	R-01
2,2-Dichloropropane	ND	250	"	"	"	"	"	"	R-01
1,1-Dichloropropene	ND	250	"	"	"	"	"	"	R-01
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	R-01
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	R-01
Hexachlorobutadiene	ND	250	"	"	"	"	"	"	R-01
Isopropylbenzene	ND	250	"	"	"	"	"	"	R-01
p-Isopropyltoluene	ND	250	"	"	"	"	"	"	R-01
Methylene chloride	ND	250	"	"	"	"	"	"	R-01
Naphthalene	ND	250	"	"	"	"	"	"	R-01
n-Propylbenzene	ND	250	"	"	"	"	"	"	R-01
Styrene	ND	250	"	"	"	"	"	"	R-01
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	R-01
1,1,1,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	R-01
Tetrachloroethene	ND	250	"	"	"	"	"	"	R-01
1,2,3-Trichlorobenzene	ND	250	"	"	"	"	"	"	R-01
1,2,4-Trichlorobenzene	ND	250	"	"	"	"	"	"	R-01
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	R-01
1,1,1-Trichloroethane	ND	250	"	"	"	"	"	"	R-01
Trichloroethene	ND	250	"	"	"	"	"	"	R-01
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	R-01
1,2,3-Trichloropropane	ND	250	"	"	"	"	"	"	R-01
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	R-01
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	R-01
Vinyl chloride	ND	250	"	"	"	"	"	"	R-01
Benzene	ND	250	"	"	"	"	"	"	R-01
Toluene	ND	250	"	"	"	"	"	"	R-01

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Product

T120094-01 (Product)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethylbenzene	ND	250	ug/kg	50	2012319	01/23/12	01/26/12	EPA 8260B	R-01
m,p-Xylene	ND	250	"	"	"	"	"	"	R-01
o-Xylene	ND	250	"	"	"	"	"	"	R-01
Tert-amyl methyl ether	ND	1000	"	"	"	"	"	"	R-01
Tert-butyl alcohol	ND	2500	"	"	"	"	"	"	R-01
Di-isopropyl ether	ND	1000	"	"	"	"	"	"	R-01
Ethyl tert-butyl ether	ND	1000	"	"	"	"	"	"	R-01
Methyl tert-butyl ether	ND	1000	"	"	"	"	"	"	R-01
Surrogate: 4-Bromofluorobenzene		*102 %*	*81.2-123*		"	"	"	"	*R-01*
Surrogate: Dibromofluoromethane		*98.5 %*	*95.7-135*		"	"	"	"	*R-01*
Surrogate: Toluene-d8		*99.6 %*	*85.5-116*		"	"	"	"	*R-01*

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	900000	ug/kg	100	2012337	01/23/12	01/27/12	EPA 8270C	
Phenol	ND	3000000	"	"	"	"	"	"	
Aniline	ND	900000	"	"	"	"	"	"	
2-Chlorophenol	ND	3000000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	900000	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	900000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	900000	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	3000000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	900000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	900000	"	"	"	"	"	"	
Acenaphthene	ND	900000	"	"	"	"	"	"	
4-Nitrophenol	ND	3000000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	900000	"	"	"	"	"	"	
Pentachlorophenol	ND	3000000	"	"	"	"	"	"	
Pyrene	ND	900000	"	"	"	"	"	"	
Acenaphthylene	ND	900000	"	"	"	"	"	"	
Anthracene	ND	900000	"	"	"	"	"	"	
Benzo (a) anthracene	ND	900000	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	900000	"	"	"	"	"	"	

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Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Product

T120094-01 (Product)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (k) fluoranthene	ND	900000	ug/kg	100	2012337	01/23/12	01/27/12	EPA 8270C	
Benzo (g,h,i) perylene	ND	3000000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	900000	"	"	"	"	"	"	
Benzyl alcohol	ND	900000	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	900000	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	900000	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	900000	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	900000	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	900000	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	900000	"	"	"	"	"	"	
4-Chloroaniline	ND	900000	"	"	"	"	"	"	
2-Chloronaphthalene	ND	900000	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	900000	"	"	"	"	"	"	
Chrysene	ND	900000	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	900000	"	"	"	"	"	"	
Dibenzofuran	ND	900000	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	900000	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	900000	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	900000	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	3000000	"	"	"	"	"	"	
Diethyl phthalate	ND	900000	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	3000000	"	"	"	"	"	"	
Dimethyl phthalate	ND	900000	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	3000000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	3000000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	3000000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	900000	"	"	"	"	"	"	
Fluoranthene	ND	900000	"	"	"	"	"	"	
Fluorene	ND	900000	"	"	"	"	"	"	
Hexachlorobenzene	ND	4500000	"	"	"	"	"	"	
Hexachlorobutadiene	ND	900000	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	3000000	"	"	"	"	"	"	

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Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Product

T120094-01 (Product)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachloroethane	ND	900000	ug/kg	100	2012337	01/23/12	01/27/12	EPA 8270C	
Indeno (1,2,3-cd) pyrene	ND	900000	"	"	"	"	"	"	
Isophorone	ND	900000	"	"	"	"	"	"	
2-Methylphenol	ND	3000000	"	"	"	"	"	"	
4-Methylphenol	ND	3000000	"	"	"	"	"	"	
Naphthalene	ND	900000	"	"	"	"	"	"	
2-Nitroaniline	ND	900000	"	"	"	"	"	"	
3-Nitroaniline	ND	900000	"	"	"	"	"	"	
4-Nitroaniline	ND	900000	"	"	"	"	"	"	
Nitrobenzene	ND	3000000	"	"	"	"	"	"	
2-Nitrophenol	ND	3000000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	900000	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	900000	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	900000	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	900000	"	"	"	"	"	"	
Phenanthrene	ND	900000	"	"	"	"	"	"	
Azobenzene	ND	900000	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	3000000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	3000000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*262 %*	*14.3-83.1*		"	"	"	"	*S-04*
Surrogate: Phenol-d6		*192 %*	*12-95.6*		"	"	"	"	*S-04*
Surrogate: Nitrobenzene-d5		*230 %*	*21.3-119*		"	"	"	"	*S-04*
Surrogate: 2-Fluorobiphenyl		*414 %*	*32.4-102*		"	"	"	"	*S-04*
Surrogate: 2,4,6-Tribromophenol		*244 %*	*18.1-101*		"	"	"	"	*S-04*
Surrogate: Terphenyl-dl4		*380 %*	*29.1-130*		"	"	"	"	*S-04*

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012321 - EPA 5030 GC										
Blank (2012321-BLK1)				Prepared & Analyzed: 01/23/12						
C6-C12 (GRO)	ND	500	ug/kg							
Surrogate: 4-Bromofluorobenzene	*348*		*"*	*250*		*139*	*72.6-146*			
LCS (2012321-BS1)				Prepared & Analyzed: 01/23/12						
C6-C12 (GRO)	13600	500	ug/kg	13800		99.2	75-125			
Surrogate: 4-Bromofluorobenzene	*283*		*"*	*250*		*113*	*72.6-146*			
LCS Dup (2012321-BSD1)				Prepared & Analyzed: 01/23/12						
C6-C12 (GRO)	13600	500	ug/kg	13800		98.7	75-125	0.537	20	
Surrogate: 4-Bromofluorobenzene	*301*		*"*	*250*		*121*	*72.6-146*			

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012322 - EPA 3550B GC										
Blank (2012322-BLK1)				Prepared: 01/23/12 Analyzed: 01/27/12						
C13-C28 (DRO)	ND	10	mg/kg							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*113*		*"*	*100*		*113*	*65-135*			
LCS (2012322-BS1)				Prepared: 01/23/12 Analyzed: 01/27/12						
C13-C28 (DRO)	500	10	mg/kg	500		100	75-125			
Surrogate: p-Terphenyl	*107*		*"*	*100*		*107*	*65-135*			
Matrix Spike (2012322-MS1)	**Source: T120091-01**			Prepared: 01/23/12 Analyzed: 01/27/12						
C13-C28 (DRO)	500	10	mg/kg	500	ND	100	75-125			
Surrogate: p-Terphenyl	*111*		*"*	*100*		*111*	*65-135*			
Matrix Spike Dup (2012322-MSD1)	**Source: T120091-01**			Prepared: 01/23/12 Analyzed: 01/27/12						
C13-C28 (DRO)	560	10	mg/kg	500	ND	111	75-125	10.3	20	
Surrogate: p-Terphenyl	*110*		*"*	*100*		*110*	*65-135*			

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012319 - EPA 5030 GCMS										
Blank (2012319-BLK1)				Prepared: 01/23/12 Analyzed: 01/24/12						
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: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012319 - EPA 5030 GCMS										
Blank (2012319-BLK1)				Prepared: 01/23/12 Analyzed: 01/24/12						
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: 4-Bromofluorobenzene	*43.4*		"	*40.0*		*108*	*81.2-123*			
Surrogate: Dibromofluoromethane	*45.6*		"	*40.0*		*114*	*95.7-135*			
Surrogate: Toluene-d8	*42.1*		"	*40.0*		*105*	*85.5-116*			

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012319 - EPA 5030 GCMS										
LCS (2012319-BS1)				Prepared: 01/23/12 Analyzed: 01/25/12						
Chlorobenzene	92.9	5.0	ug/kg	100		92.9	75-125			
1,1-Dichloroethene	106	5.0	"	100		106	75-125			
Trichloroethene	97.2	5.0	"	100		97.2	75-125			
Benzene	105	5.0	"	100		105	75-125			
Toluene	100	5.0	"	100		100	75-125			
Surrogate: 4-Bromofluorobenzene	*41.5*		"	*40.0*		*104*	*81.2-123*			
Surrogate: Dibromofluoromethane	*49.0*		"	*40.0*		*122*	*95.7-135*			
Surrogate: Toluene-d8	*42.0*		"	*40.0*		*105*	*85.5-116*			
LCS Dup (2012319-BSD1)				Prepared: 01/23/12 Analyzed: 01/25/12						
Chlorobenzene	98.9	5.0	ug/kg	100		98.9	75-125	6.26	20	
1,1-Dichloroethene	95.4	5.0	"	100		95.4	75-125	10.8	20	
Trichloroethene	95.1	5.0	"	100		95.1	75-125	2.13	20	
Benzene	104	5.0	"	100		104	75-125	0.239	20	
Toluene	101	5.0	"	100		101	75-125	0.796	20	
Surrogate: 4-Bromofluorobenzene	*44.2*		"	*40.0*		*111*	*81.2-123*			
Surrogate: Dibromofluoromethane	*47.6*		"	*40.0*		*119*	*95.7-135*			
Surrogate: Toluene-d8	*42.2*		"	*40.0*		*105*	*85.5-116*			

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012337 - EPA 3550 ECD/GCMS										
Blank (2012337-BLK1)				Prepared: 01/23/12 Analyzed: 01/26/12						
Carbazole	ND	300	ug/kg							
Aniline	ND	300	"							
Phenol	ND	1000	"							
2-Chlorophenol	ND	1000	"							
1,4-Dichlorobenzene	ND	300	"							
N-Nitrosodi-n-propylamine	ND	300	"							
1,2,4-Trichlorobenzene	ND	300	"							
4-Chloro-3-methylphenol	ND	1000	"							
1-Methylnaphthalene	ND	300	"							
2-Methylnaphthalene	ND	300	"							
Acenaphthene	ND	300	"							
4-Nitrophenol	ND	1000	"							
2,4-Dinitrotoluene	ND	300	"							
Pentachlorophenol	ND	1000	"							
Pyrene	ND	300	"							
Acenaphthylene	ND	300	"							
Anthracene	ND	300	"							
Benzo (a) anthracene	ND	300	"							
Benzo (b) fluoranthene	ND	300	"							
Benzo (k) fluoranthene	ND	300	"							
Benzo (g,h,i) perylene	ND	1000	"							
Benzo (a) pyrene	ND	300	"							
Benzyl alcohol	ND	300	"							
Bis(2-chloroethoxy)methane	ND	300	"							
Bis(2-chloroethyl)ether	ND	300	"							
Bis(2-chloroisopropyl)ether	ND	300	"							
Bis(2-ethylhexyl)phthalate	ND	300	"							
4-Bromophenyl phenyl ether	ND	300	"							
Butyl benzyl phthalate	ND	300	"							
4-Chloroaniline	ND	300	"							
2-Chloronaphthalene	ND	300	"							
4-Chlorophenyl phenyl ether	ND	300	"							
Chrysene	ND	300	"							
Dibenz (a,h) anthracene	ND	300	"							
Dibenzofuran	ND	300	"							
Di-n-butyl phthalate	ND	300	"							

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012337 - EPA 3550 ECD/GCMS										
Blank (2012337-BLK1)				Prepared: 01/23/12 Analyzed: 01/26/12						
1,2-Dichlorobenzene	ND	300	ug/kg							
1,3-Dichlorobenzene	ND	300	"							
2,4-Dichlorophenol	ND	1000	"							
Diethyl phthalate	ND	300	"							
2,4-Dimethylphenol	ND	1000	"							
Dimethyl phthalate	ND	300	"							
4,6-Dinitro-2-methylphenol	ND	1000	"							
2,4-Dinitrophenol	ND	1000	"							
2,6-Dinitrotoluene	ND	1000	"							
Di-n-octyl phthalate	ND	300	"							
Fluoranthene	ND	300	"							
Fluorene	ND	300	"							
Hexachlorobenzene	ND	1500	"							
Hexachlorobutadiene	ND	300	"							
Hexachlorocyclopentadiene	ND	1000	"							
Hexachloroethane	ND	300	"							
Indeno (1,2,3-cd) pyrene	ND	300	"							
Isophorone	ND	300	"							
2-Methylphenol	ND	1000	"							
4-Methylphenol	ND	1000	"							
Naphthalene	ND	300	"							
2-Nitroaniline	ND	300	"							
3-Nitroaniline	ND	300	"							
4-Nitroaniline	ND	300	"							
Nitrobenzene	ND	1000	"							
2-Nitrophenol	ND	1000	"							
N-Nitrosodimethylamine	ND	300	"							
N-Nitrosodiphenylamine	ND	300	"							
2,3,5,6-Tetrachlorophenol	ND	300	"							
2,3,4,6-Tetrachlorophenol	ND	300	"							
Phenanthrene	ND	300	"							
Azobenzene	ND	300	"							
2,4,5-Trichlorophenol	ND	1000	"							
2,4,6-Trichlorophenol	ND	1000	"							
Surrogate: 2-Fluorophenol	*761*		*"*	*1670*		*45.7*	*14.3-83.1*			

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012337 - EPA 3550 ECD/GCMS										
Blank (2012337-BLK1)				Prepared: 01/23/12 Analyzed: 01/26/12						
Surrogate: Phenol-d6	*627*		*ug/kg*	*1670*		*37.6*	*12-95.6*			
Surrogate: Nitrobenzene-d5	*705*		*"*	*1670*		*42.3*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*832*		*"*	*1670*		*49.9*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*1100*		*"*	*1670*		*66.1*	*18.1-101*			
Surrogate: Terphenyl-dl4	*965*		*"*	*1670*		*57.9*	*29.1-130*			
LCS (2012337-BS1)				Prepared: 01/23/12 Analyzed: 01/27/12						
Phenol	808	1000	ug/kg	1670		48.5	25.9-102			
2-Chlorophenol	903	1000	"	1670		54.2	37.1-110			
1,4-Dichlorobenzene	708	300	"	1670		42.5	36-97			
N-Nitrosodi-n-propylamine	787	300	"	1670		47.2	30.8-81.8			
1,2,4-Trichlorobenzene	1010	300	"	1670		60.7	39-98			
4-Chloro-3-methylphenol	952	1000	"	1670		57.1	33.1-109			
Acenaphthene	993	300	"	1670		59.6	38.9-79.4			
4-Nitrophenol	719	1000	"	1670		43.2	14-103			
2,4-Dinitrotoluene	1040	300	"	1670		62.6	24-96			
Pentachlorophenol	920	1000	"	1670		55.2	8.05-120			
Pyrene	877	300	"	1670		52.6	25-85.2			
Surrogate: 2-Fluorophenol	*658*		*"*	*1670*		*39.5*	*14.3-83.1*			
Surrogate: Phenol-d6	*640*		*"*	*1670*		*38.4*	*12-95.6*			
Surrogate: Nitrobenzene-d5	*618*		*"*	*1670*		*37.1*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*715*		*"*	*1670*		*42.9*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*1170*		*"*	*1670*		*70.3*	*18.1-101*			
Surrogate: Terphenyl-dl4	*770*		*"*	*1670*		*46.2*	*29.1-130*			
LCS Dup (2012337-BSD1)				Prepared: 01/23/12 Analyzed: 01/27/12						
Phenol	767	1000	ug/kg	1670		46.0	25.9-102	5.21	42	
2-Chlorophenol	861	1000	"	1670		51.7	37.1-110	4.69	40	
1,4-Dichlorobenzene	844	300	"	1670		50.6	36-97	17.4	28	
N-Nitrosodi-n-propylamine	736	300	"	1670		44.2	30.8-81.8	6.65	38	
1,2,4-Trichlorobenzene	945	300	"	1670		56.7	39-98	6.92	28	
4-Chloro-3-methylphenol	834	1000	"	1670		50.1	33.1-109	13.1	42	
Acenaphthene	926	300	"	1670		55.6	38.9-79.4	6.91	31	
4-Nitrophenol	239	1000	"	1670		14.3	14-103	100	50	QR-02
2,4-Dinitrotoluene	946	300	"	1670		56.7	24-96	9.79	38	
Pentachlorophenol	682	1000	"	1670		40.9	8.05-120	29.7	50	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012337 - EPA 3550 ECD/GCMS										
LCS Dup (2012337-BSD1)				Prepared: 01/23/12 Analyzed: 01/27/12						
Pyrene	861	300	ug/kg	1670		51.7	25-85.2	1.80	31	
Surrogate: 2-Fluorophenol	*748*		*"*	*1670*		*44.9*	*14.3-83.1*			
Surrogate: Phenol-d6	*641*		*"*	*1670*		*38.4*	*12-95.6*			
Surrogate: Nitrobenzene-d5	*611*		*"*	*1670*		*36.6*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*692*		*"*	*1670*		*41.5*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*1060*		*"*	*1670*		*63.4*	*18.1-101*			
Surrogate: Terphenyl-dl4	*784*		*"*	*1670*		*47.0*	*29.1-130*			

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SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	01/30/12 14:53

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-03	The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
R-01	The Reporting Limit has been raised to account for dilution necessary due to matrix interference.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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: Gribi Associates
Address:
Phone: Fax:
Project Manager: J Gribi

Date: 1/19/12 Page: 1 Of 1
Project Name: Atthowe-Market Street
Collector: J Gribi Client Project #:
Batch #: T120064 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers
Product	1/17/12	1100	Product	Jar	X	X		X		X		X		01	STD. TAT 1-20-12	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	1/19/12		1-19-12
			2:40
	1-20-12 9:40		1-20-12

Total # of containers: 1
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold: 6.0

Notes: -This is product -will need to dilute

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

Turn around time:

COC 101029

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T120094

Client Name: GRIBI Project: ATTHOWE - MARKET STREET

Received by: SUNNY Date/Time Received: 1/20/12 9:40

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 6.2 °C +/- the CF (- 0.2°C) = 6.0 °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 BC 1/20/12

Comments:

Quantitation Report

Data File : Q:\DRO-1\DATA\012712\0127_21.D Vial: 20
Acq On : 27 Jan 20112 10:38 pm Operator:
Sample : T120094-01 Inst : Diesel #1
Misc : SOIL 10g:10ml DLF 100:1 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jan 30 9:02 19112 Quant Results File: CC012612.RES

Quant Method : Q:\DRO-1\METHODS\CC012612.M (Chemstation Integrator)
Title : EPH - Extended Run
Last Update : Thu Jan 26 08:54:52 2012
Response via : Multiple Level Calibration
DataAcq Meth : CC083110.M

Volume Inj. :
Signal Phase :
Signal Info :