



FIDELITY ROOF COMPANY

November 19, 2011

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

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Attention: Mark Detterman

Subject: Soil and Groundwater Investigation Report
Fidelity Roof Co. UST Site, 1075 40th Street, Oakland, CA 94608
ACDEH Site No. RO000186

Ladies and Gentlemen:

Attached please find a copy of the *Soil and Groundwater Investigation Report, Fidelity Roof Co. UST Site, 1075 40th Street, Oakland, CA 94608*, 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,

Monte M. Upshaw
Chairman
Fidelity Roof Company

SOIL AND GROUNDWATER INVESTIGATION REPORT

**Fidelity Roof UST Site
1075 40th Street
Oakland, California
ACDEH Fuel Leak Case: RO0000186**

Prepared for:

Mr. Monte Upshaw
Fidelity Roof Company
1075 40th Street
Oakland, CA 94608

November 18, 2011



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

Attention: Mr. Mark Detterman

Subject: Soil and Groundwater Investigation Report
Fidelity Roof UST Site
1075 40th Street, Oakland, California
ACDEH Fuel Leak Case: RO0000186; Global ID: T0600102117

Ladies and Gentlemen:

Gribi Associates is pleased to submit this *Soil and Groundwater Investigation Report* on behalf of Fidelity Roof Company for the Fidelity Roof Company underground storage tank (UST) site (Site) located at 1075 40th Street in Oakland, California. This report documents the drilling and sampling of eight investigative borings (GA-1 through GA-8), the drilling, installation, and sampling of one shallow groundwater monitoring well (MW-7), and the collection and analysis of three soil gas samples (SG/VS-1, SG/VS-2, and SG/VS-3) adjacent to the Site building. The goal of these activities has been to provide additional site characterization as necessary to achieve regulatory closure of this site.

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

Very truly yours,

James E. Gribi
Registered Geologist
California No. 5843



JEG/ct

c Monte Upshaw, Fidelity Roof Company

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
1.0 INTRODUCTION	3
1.1 Scope of Work	3
1.2 Limitations	3
2.0 SITE BACKGROUND	4
2.1 General Site Description	4
2.2 General Site Topography and Geologic Setting	4
2.3 Summary of Previous Environmental Investigation and Remediation Activities ..	4
3.0 DESCRIPTION OF FIELD ACTIVITIES	7
3.1 Prefield Activities	7
3.2 Location of Borings and Wells	8
3.3 Drilling and Sampling of Investigative Soil Borings	8
3.4 Drilling, Sampling, and Installation of Monitoring Well MW-7	9
3.5 Laboratory Analysis of Soil and Water Samples	9
3.6 Soil Gas Sampling and Laboratory Analysis	9
4.0 RESULTS OF INVESTIGATION	11
4.1 General Subsurface Conditions	11
4.2 Results of Laboratory Analyses	11
5.0 CONCLUSIONS	11

TABLES

Table 1	Summary of Soil and Groundwater Laboratory Analytical Results
Table 2	Summary of Soil Vapor Laboratory Analytical Results

Table of Contents (continued)

FIGURES

Figure 1	Site Vicinity Map
Figure 2	Site Plan
Figure 3	Historic Post-Remediation Soil Hydrocarbon Results
Figure 4	Historic Post-Remediation Groundwater Hydrocarbon Results
Figure 5	Cross Section Location Map
Figure 6	Lithologic Cross Section
Figure 7	Soil and Groundwater Hydrocarbon Results

APPENDICES

Appendix A	Drilling and Well Permits
Appendix B	Soil Boring Logs
Appendix C	Laboratory Data Reports and Chain of Custody Records

EXECUTIVE SUMMARY

Gribi Associates is pleased to submit this *Soil and Groundwater Investigation Report* on behalf of Fidelity Roof Company for the Fidelity Roof Company underground storage tank (UST) site (Site) located at 1075 40th Street in Oakland, California. This report documents the drilling and sampling of eight investigative borings (GA-1 through GA-8), the drilling, installation, and sampling of one shallow groundwater monitoring well (MW-7), and the collection and analysis of three soil gas samples (SGVS-1, SG/VS-2, and SG/VS-3) adjacent to the Site building. The goal of these activities has been to provide additional site characterization as necessary to achieve regulatory closure of this site.

Groundwater monitoring well MW-7 and investigative borings GA-1 through GA-8 were drilled and installed between April 7 and April 11, 2011. Soil vapor samples SG/VS-1, SG/VS-2, and SG/VS-3 were collected on May 5, 2011, June 10, 2011, and September 28, 2011. All activities were conducted in accordance with applicable guidelines and statutes.

Soils encountered in the logged investigative and well borings generally consisted of silts and clays, with relatively thin discontinuous silty and clayey gravels and sands. In particular, one discontinuous three- to five-foot thick silty gravel is present at approximately 15 feet in depth, and another fairly persistent two- to three-foot thick silty gravel is present at approximately 25 feet in depth. Another silty/clayey sand was logged at about 28 feet in depth in deeper borings (GA-1, GA-2, and GA-3).

Free groundwater was encountered in the 15-foot gravel/sand in borings GA-2 and GA-3 and in the 25-foot sand in borings GA-1, GA-6, GA-7, and GA-8. In boring GA-4, free groundwater was encountered in a clayey sand/gravel layer present from approximately 20 to 22 feet in depth. GA-5 was a “hydropunch” boring and, as such, was not logged; however, groundwater was sampled at approximately 25 to 30 feet in depth.

Slight to moderate hydrocarbon odors were encountered in soils in boring GA-4 from approximately 16 to 22 feet in depth (there was no recovery of soil cores above 16 feet in depth in GA-4). No other hydrocarbon odors, and no PID detections or groundwater odors or sheens, were encountered in the borings.

Low concentrations of gasoline-range hydrocarbons were encountered in soil samples in boring GA-4, located within the former UST excavation cavity. Low to moderate concentrations of gasoline-range hydrocarbons were encountered in grab groundwater samples in borings GA-2 and GA-4, and very low to nondetectable concentrations of primarily MTBE were encountered in grab groundwater samples from borings GA-1, GA-3, GA-5, GA-6, and MW-7.

Soil vapor samples collected on May 5, 2011 and June 10, 2011 showed elevated concentrations of the leak check compound 1,1-Difluoroethane (1,1-DFA) and low to nondetectable concentrations of BTEX constituents. Soil vapor samples collected on September 28, 2011 showed relatively low levels of the leak check compound isopropyl alcohol (IP) and no significant concentrations of BTEX constituents.

Soil and groundwater laboratory analytical results from this investigation confirm the site conceptual model (SCM) for the site developed and summarized in the *Closure Request Report* (Gribi Associates, February 3, 2010). The SCM for this site generally posits that contaminant soil and groundwater plume migration has been minimal at this site, with soil hydrocarbon migration not exceeding approximately 30 feet and groundwater hydrocarbon migration not exceeding approximately 50 feet. The limited extent of these impacts appears to have been primarily the result of relatively low permeability, clay-dominated soils (including clayey sands and gravels) beneath the site.

Based on the results from the most recent (September 28, 2011) vapor sampling event, vapor intrusion is not a significant concern at this site. Soil vapor samples collected during the September event showed BTEX concentrations that are below regulatory ESLs for vapor intrusion into buildings. Note that these samples were collected in a permeable zone just below the Bay Mud (just below approximately 4.5 feet in depth) and provide, we believe, a true representation of soil vapor quality beneath the Bay Mud. Note also that, while the leak check compound (IP) was detected in the soil vapor samples (1,500 ug/m³ and 1,800 ug/m³), these IP detections were less than three percent of the Shroud sample leak check concentration (57,000 ug/m³); hence, we consider the soil vapor sample results from the September 28, 2011 event to be valid (leak detection compound detections of up to ten percent are generally considered allowable).

Based on the results of this investigation, as well as on results of previous investigative and remediation activities, we recommend that regulatory closure be granted for this site. The preponderance of evidence clearly shows that this site meets generally-accepted closure criteria and should be granted regulatory site closure as a “low risk” site with unrestricted land use. Specifically, site closure should be granted because: (1) The contaminant sources have been largely removed; (2) The site has been adequately characterized; (3) The contaminant plume is not migrating, and chemical concentrations in groundwater are expected to meet water quality objectives in the future; (4) No other waters of the State, water supply wells, or other sensitive receptors are likely to be impacted; and (5) The site does not pose a significant risk to human or environmental receptors.

1.0 INTRODUCTION

Gribi Associates is pleased to submit this *Soil and Groundwater Investigation Report* on behalf of Fidelity Roof Company for the Fidelity Roof Company underground storage tank (UST) site (Site) located at 1075 40th Street in Oakland, California (see Figure 1 and Figure 2). This report documents the drilling and sampling of eight investigative borings (GA-1 through GA-8), the drilling, installation, and sampling of one shallow groundwater monitoring well (MW-7), and the collection and analysis of three soil gas samples (VS-1, VS-2, and VS-3) adjacent to the Site building. This investigation was conducted in accordance with a workplan approved by the Alameda County Environmental Health Department (ACEH). The goal of these activities has been to provide additional site characterization as necessary to achieve regulatory closure of this site.

1.1 Scope of Work

Gribi Associates was contracted by Fidelity Roof Company to conduct the following scope of work.

- **Task 1 Conduct prefield activities.**
- **Task 2 Install and sample on groundwater monitoring well.**
- **Task 3 Conduct soil boring sampling and lab analyses.**
- **Task 4 Conduct shallow soil vapor sampling and lab analyses.**
- **Task 5 Prepare report of findings.**

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

1.2 Limitations

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

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

2.0 SITE BACKGROUND

2.1 General Site Description

The Site is located in a mixed commercial, light industrial, and residential area of north Oakland near the Oakland/Emeryville city border. The Site is bordered to the south by Yerba Buena Avenue followed by residential properties, to the east by residential properties, to the west by commercial and residential properties, and to the north by 40th Street followed by commercial and residential properties. The site is currently used as a company yard and offices for Fidelity Roof Company.

2.2 General Site Topography and Geologic Setting

According to the USGS Oakland, West, California 7.5-Minute Quadrangle Map, the Site lies on a gently southwest-sloping plain approximately one mile east from San Francisco Bay. The elevation at the Site is approximately 45 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 ranging from 5 to 10 feet below surface grade.

2.3 Summary of Previous Environmental Investigation and Remediation Activities

The following sections describe previous remediation and investigation activities conducted at the Site.

2.3.1 UST Removal Activities

On December 19, 1995, Tank Protect Engineering, Inc. removed one 1,000-gallon diesel UST and one 500-gallon gasoline UST from a single excavation cavity on the southeast corner of the property. Soil sample analytical results indicated minimal soil hydrocarbon impacts beneath the 1,000-gallon UST. On September 12, 1996, All Environmental, Inc. (AEI) drilled and sampled four soil borings, SB-1 through SB-4, near the former UST excavation. Analytical results from the subsurface investigation revealed significant soil hydrocarbon impacts east and west of the UST excavation cavity.

On October 25, 1996, AEI extended the excavation cavity laterally seven feet to the south and 12 feet to the west. Soil was removed to a depth of nine feet below ground surface. The dispenser island and associated piping were also removed. Analyses of the soil samples collected from the excavation sidewalls indicated up to 150 milligrams per kilogram (mg/kg) of TPH-G, 16 mg/kg of benzene, and 300 mg/kg of TPH-D remained within the western excavation sidewall.

2.3.2 Site Investigation Activities

On March 6, 1997, AEI installed three groundwater monitoring wells, MW-1, MW-2, and MW-3. Significant groundwater hydrocarbon impacts were reported for well MW-3, located approximately ten feet west-northwest from the former fuel dispenser island. Low to nondetectable hydrocarbon impacts were reported in groundwater samples from wells MW-1 and MW-2, located south and north, respectively, from the former UST excavation cavity.

On November 4, 1998, AEI drilled and sampled six additional soil borings, SB-1 through SB-6, south and west from the former excavation cavity. An elevated concentration of diesel-range hydrocarbons was noted in a grab groundwater sample from a southerly boring. Groundwater analytical results from west borings showed no significant hydrocarbon impacts.

On May 6, 2004, AEI installed one vapor extraction well, VE-1, and two air sparge wells, AS-1 and AS-1, at the site. In addition, six shallow drive point small diameter monitoring wells, DP-1 through DP-6, were installed on May 13, 2004 using direct push technology. On May 19 and 20, 2004, AEI conducted a soil vapor extraction/air sparge pilot test using newly-installed wells. The results of this pilot test and recommendations for remediation are summarized in AEI's *Soil Vapor Extraction and Air Sparge Pilot Test Report*, dated August 6, 2004.

Between March 8 and March 13, 2006, AEI conducted a five-day high vacuum dual-phase (SVE and groundwater extraction) extraction (HVDPE) event at the site. On March 8, 2006, extraction began on well MW-3. Total influent hydrocarbon concentrations ranged from approximately 156 part per million by volume (ppmv) to 355 ppmv. The total system flow rate ranged from 32 to 50 standard cubic feet per minute (scfm). Extraction well VE-1 and monitoring well MW-2 were connected to the system on March 10, 2006. Total influent hydrocarbon concentrations ranged from approximately 427 to 612 ppmv. The total system flow rate ranged from 108 to 124 scfm. Hydrocarbon concentrations stabilized in the 450 to 500 ppmv range until the end of the day on March 12, 2006 when the concentrations fell to about 340 ppmv. By the last day of the event, concentrations stabilized in the 150 to 200 ppmv range. Mass removal estimates using field data indicated a total of approximately 58.4 pounds of hydrocarbons were recovered. With a 97% system uptime, this equals approximately 12.65 pounds per day (lb/day) of vapor phase hydrocarbons recovered. AEI estimated the approximate total mass of hydrocarbons in the smear zone (from approximately 5.5 to 12 feet bgs) to be 1,821 pounds, or 299 gallons.

On December 14, 2006, AEI installed two additional groundwater monitoring wells, MW-5 and MW-6, approximately 50 feet northwest, in an expected downgradient groundwater flow direction, from the former UST cavity. Soil and groundwater analytical results from these wells showed low to nondetectable hydrocarbon impacts.

2.3.3 Recent Site Remediation Activities

Review of available site documents showed two distinct hydrocarbon plume areas associated with this site: (1) An easterly primarily groundwater MTBE/TBA plume that extends downgradient (northwest) from the former UST tank area; and (2) A westerly soil and groundwater hydrocarbon plume extending downgradient from the former fuel dispenser area. Due to the low permeability soils beneath the site, both plumes appeared to be fairly small and concentrated. The soil and groundwater impacts associated with the westerly fuel dispenser

plume included gasoline-range hydrocarbons above regulatory screening levels, and free phase hydrocarbons (free product) in a single well, MW-3. Remediation of the free product would be required prior to obtaining regulatory site closure.

To address free-product and associated soil and groundwater impacts in the vicinity of MW-3, Gribi Associates submitted the *Workplan to Conduct Site Remediation Activities* and the *Addendum to Workplan to Conduct Site Remediation Activities* to the Alameda County Department of Environmental Health (ACEH) on April 3, 2007 and June 7, 2007, respectively. This workplan and workplan addendum proposed: (1) The drilling of approximately four soil borings in the former UST source area; (2) The decommissioning of seven site wells within the planned excavation area; (3) The excavation and offsite disposal of hydrocarbon-impacted soil and groundwater immediately west from the former UST excavation cavity; and (4) Conducting verification soil and groundwater sampling to assess remediation effectiveness. The workplan and workplan addendum were approved by the ACDEH on May 23, 2007 and August 8, 2007, respectively.

Seven site wells, MW-3, AS-1, AS-2, DP-3, DP-4, DP-5 and DP-6, were decommissioned on November 23, 2007. These decommissioned wells, which were pressure grouted, consisted of one 2-inch diameter monitoring well (MW-3), four 3/4-inch diameter monitoring wells (DP-3 through DP-6), and two 2-inch remediation wells (AS-1 and AS-2).

On November 27, 2007, four investigative soil borings, B-1 through B-4, were drilled to depths ranging from approximately 16 feet to 30 feet in depth using direct-push hydraulically-driven soil coring equipment (see Figure 3 and Figure 4). Soils encountered in boring B-1 through B-4 were generally similar, consisting primarily of silty gravel fill material to a depth of approximately 8 feet below surface, followed by silty clays to total boring depths. Groundwater was encountered in all borings at a depth of approximately 8 feet below surface grade. Attempts to collect deeper water samples by hydropunching variously from 21 feet to 30 feet in depth were unsuccessful and yielded no water in all four borings. Moderate hydrocarbon staining and odors were noted in soils in all four borings at the fill/native interface, from about 8 feet to 10 feet below surface grade. Soils below 10 feet in depth in the four borings did not exhibit significant staining or odors. Results of the soil boring investigation showed relatively low soil and groundwater hydrocarbon impacts in native soils at the base of the former UST overexcavation cavity. The highest soil and groundwater hydrocarbon impacts were encountered in boring B-2, located beneath the former UST itself in the northeast corner of the former overexcavation cavity. The soil sample collected at 8 feet in depth in B-2 showed 170 mg/kg of TPH-G, 0.087 mg/kg of benzene, and 1.4 mg/kg of MTBE. Soil samples collected at 12 feet and 16 feet in depth showed low concentrations of TPH-G, but did show respective benzene concentrations of 1.1 mg/kg and 1.1 mg/kg, and respective MTBE concentrations of 6.5 mg/kg and 3.8 mg/kg. The grab groundwater sample from boring B-2 showed 320 ug/l of TPH-G, 4.6 ug/l of benzene, and 180 ug/l of MTBE. These concentrations are all above the San Francisco Bay Regional Water Quality Control Board's (RWQCB's) drinking water Environmental Screening Levels (ESLs) for TPH-G, benzene, and MTBE; however, they are generally below nondrinking water ESLs. Groundwater below the site is not currently a drinking water source, and there is little expectation that groundwater below the site would be used for drinking water source in the future.

Soil excavation and disposal activities and confirmation soil sampling activities were conducted between March 10, 2008 and March 12, 2008. Groundwater removal and excavation backfill and resurfacing activities were conducted between March 18, 2008 and March 25, 2008. A total of 282 tons of hydrocarbon impacted soil was excavated and disposed of at the West Contra Costa County Landfill in Richmond, California, and approximately 2,500 gallons of hydrocarbon impacted groundwater was removed and disposed of at the Instrat facility in Rio Vista California. Excavation pit sidewall soil samples, collected in the groundwater hydrocarbon “smear zone” at about 10 feet in depth, showed low to nondetectable concentrations of hydrocarbon constituents, with the highest TPH-G and benzene concentrations being 73 mg/kg and 0.033 mg/kg, respectively. Excavation pit bottom soil samples, collected at 12 feet in depth, showed low to nondetectable concentrations of hydrocarbon constituents, with the highest TPH-G and benzene concentrations being 170 mg/kg and 0.012 mg/kg, respectively. The grab groundwater sample from the water holding tank showed 240 ug/L of TPH-G, 440 ug/L of TPH-D, and no detectable benzene.

Results of source removal activities were reported in *Report of Source Removal Activities*, (Gribi Associates, April 22, 2008). Based on source removal activities, this report recommended no additional investigation or remediation in this area of the site.

Quarterly groundwater monitoring has been conducted for site wells since 2001. Results of this and previous monitoring events seem to indicate: (1) A general west-northwesterly trending groundwater flow gradient beneath the site; and (2) A relatively small groundwater MTBE/TBA plume extending 30 to 40 feet northwest from the former UST area.

On September 21, 2010, Gribi Associates submitted the *Soil and Groundwater Investigation Workplan* for the Site. This workplan proposed: (1) The installation of one groundwater monitoring well, MW-7, in the approximate location of former well MW-3 to assess remediation effectiveness; (2) The drilling and sampling of approximately eight investigative soil borings, to include four borings in the former UST source area to assess vertical hydrocarbon impacts and four downgradient borings to assess lateral MTBE impacts; and (3) The collection and analysis of three soil gas samples adjacent to the Site building at the former UST source area to assess possible vapor intrusion concerns. This workplan was approved with conditions by ACEH on December 17, 2010.

3.0 DESCRIPTION OF FIELD ACTIVITIES

Investigative soil borings and groundwater monitoring wells were drilled and installed by RSI Drilling (C-57 License No. 802334). Groundwater monitoring well MW-7 and investigative borings GA-1 through GA-8 were drilled and installed between April 7 and April 11, 2011. Soil vapor samples SG/VS-1, SG/VS-2, and SG/VS-3 were collected on May 5, 2011, June 10, 2011, and September 28, 2011. All activities were conducted in accordance with applicable guidelines and statutes.

3.1 Prefield Activities

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

Prior to implementing field activities, all drilling locations were marked with white paint, and Underground Services Alert (USA) was notified at least 48 hours prior to drilling. Also, a private underground utility locator was retained to conduct an independent clearance of the proposed well locations.

Prior to initiating drilling activities, a Site Safety Plan was prepared, and a tailgate safety meeting was conducted with all site workers.

3.2 Location of Borings and Wells

The well, soil boring, and soil gas sample locations are shown on Figure 2. New well MW-7 was sited in the approximate location of former well MW-3. The eight investigative borings included two source area borings, GA-4 and GA-5, and six downgradient borings, GA-1, GA-2, GA-3, GA-6, GA-7, and GA-8. Borings GA-1 and GA-2 were sited approximately 25 feet downgradient (west-northwest) from the former UST overexcavation cavity. Boring GA-3 was sited between wells MW-5 and MW-6, and borings GA-6 and GA-7 were sited approximately 25 feet downgradient from well MW-6. Boring GA-8 was sited near the downgradient Site property line.

The three soil gas samples, SG/VS-1, SG/VS-2, and SG/VS-3, were sited adjacent to the Site building immediately east from the former UST excavation cavity.

3.3 Drilling and Sampling of Investigative Soil Borings

The eight soil borings, GA-1 through GA-8, were drilled to depths ranging from 24 feet to 40 feet in depth using direct-push coring equipment. For all borings except GA-4 and GA-5 (located in the former excavation cavity where previous borings were drilled), continuous soil cores were collected to total boring depth. The continuous soil cores were collected in a clear plastic acetate tube, nested inside a stainless steel core barrel. After each four-foot core barrel was brought, a portion of the soil core contained in the acetate liner was removed for preservation and laboratory analysis. Teflon tape was placed over both ends of the sample core and sealed with plastic end-caps. The samples were then labeled and placed in cold storage pending transport to a laboratory. Following sample collection, the core was sliced lengthwise to expose the soil core, examined, logged, and field screened for hydrocarbons by a qualified geologist using sight, smell and PID. Soil boring logs for the eight soil borings are included in Appendix B.

In accordance with the approved workplan, we attempted to collect two grab groundwater samples in several of the borings; however, in most cases groundwater did not enter the borings until attaining a depth of approximately 30 feet below ground surface (bgs). Only in borings GA-2 and GA-3 were two depth discrete grab groundwater samples collected. Open hole grab groundwater samples were collected by placing 3/4-inch diameter PVC well casing in the boring and allowing groundwater to enter the casing. For the deeper water sample in GA-2 and the water sample in GA-5 (in the former UST excavation cavity), depth-discrete grab groundwater samples were collected using a “hydropunch” type groundwater sampling device, which involved pushing a four-foot screened section sheathed in an outer casing to the desired depth, and then retracting the outer casing to expose the screened interval. With both sampling methods, groundwater was then sampled using a clean small diameter bailer and poured directly

into laboratory-supplied containers. Each sample container was then tightly sealed, labeled, and placed in cold storage for transport to the laboratory under formal chain-of-custody.

All coring and sampling equipment was thoroughly cleaned and decontaminated between each sample collection by triple rinsing first with water, then with dilute liquinox solution, and finally with distilled water. Soil cuttings were contained onsite in sealed drums pending laboratory results. After completion, the three soil borings were grouted to match existing surface grade using a cement/sand slurry.

3.4 Drilling, Sampling, and Installation of Monitoring Well MW-7

Well MW-7 was drilled to approximately 20 feet in depth using both direct-push coring tools (for lithologic logging and soil sampling) and hollow stem auger equipment (well installation activities). Soils were first cored, logged and sampled using direct-push coring equipment as described in the previous section of this report. The soil boring log for MW-7 is included in Appendix B. During coring and sampling activities, all sampling equipment was 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.

The groundwater monitoring well was constructed using 2-inch diameter Schedule 40 threaded PVC casing according to the following specifications: (1) 0.020-inch slotted well casing was placed from approximately 20 feet to 5 feet in depth; (2) No. 3 Lonestar (or equivalent) filter sand was placed around the casing to a depth of approximately 4 feet below grade; (3) A two foot bentonite seal was placed above the filter sand to approximately 2 feet below grade; and (4) The remaining annulus was grouted using a cement/sand slurry (bentonite less than five percent) to approximate grade. The top of the well was enclosed in a traffic-rated locking well box set in concrete slightly above surface grade. Well construction details for MW-7 are summarized on the boring log in Appendix B. All downhole drilling equipment, including auger and drill bit, was steam cleaned before and after drilling the well boring. All soil cuttings and steam cleaning rinseate were contained in sealed drums pending laboratory results.

3.5 Laboratory Analysis of Soil and Water Samples

Approximately 31 soil samples and 11 water samples were analyzed for the following parameters.

USEPA 8260B Total Petroleum Hydrocarbons ad Gasoline (TPH-G)
USEPA 8260B Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
USEPA 8260B Oxygenates (TBA, MTBE, DIPE, ETBE, TAME)

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

3.6 Soil Gas Sampling and Laboratory Analysis

Soil vapor sampling was conducted on May 5, 2011, June 10, 2011, and September 28, 2011. During the May 5, 2011 sampling event, a temporary vapor probe was used; however, this method was found to be unsatisfactory due to lack of knowledge of subsurface soils and obvious

leaks during sampling. To correct these problems, three temporary vapor wells were installed on June 10, 2011 using hand auger equipment; however, the above-ground portion of the sampling train leaked during this sampling event. The above-ground portion of the sampling train was changed and the temporary vapor wells were again sampled on September 28, 2011. Note that SG/VS-3 is located next to a much-used water spigot, and during September 28, 2011 purging, water was drawn into the purge apparatus; thus, this vapor well was not sampled during this event.

On June 10, 2011, three temporary vapor wells (SG/VS-1, SG/VS-2, and SG/VS-3) were installed using hand auger equipment. At each location, asphalt was removed and soils were hand augered to five feet in depth. Soils in the borings consisted of asphalt and base rock to 1.0 foot in depth, followed by dark grey "Bay Mud" clays to approximately 4.5 feet in depth, and then by brown gravelly, sandy silt to 5.0 feet total depth. For each well, a three-inch long, stainless steel, screened vapor tip with 1/4-inch diameter PVC tubing was placed at five feet in depth. Filter sand was then placed in the boring to approximately 4.5 feet in depth and bentonite was placed above the sand to approximately 0.5 feet in depth. The bentonite was then hydrated with approximately 20 ounces of water, and the vapor probe was purged at low volume (less than 200 ml/minute) for several minutes and allowed to equilibrate for approximately 30 minutes.

For the June and September sampling events, a "T" valve allowing for vacuum testing and purging, was placed at the top of the well head, and a 1.0 liter laboratory-certified clean Summa canister with pressure gauge and 200 mg/min flow controller, and pre-evacuated to 30 inches mercury vacuum pressure, was connected to the "T" valve. The entire sampling train, including the Summa canister, was placed under a hard plastic container (sampling hood) with weather stripping around the base.

After purging approximately three sampling train volumes using a graduated plunger, the Summa canister was opened and allowed to fill slowly. During sampling, vacuum pressure in the Summa canister was monitored periodically, and the sample container was closed when vacuum pressure in the canister reached approximately 4.0 inches mercury. Prior to and during sampling, two surrogate chemicals, 1,1-Difluoroethane (1,1-DFA, in the form of dust remover aerosol) and liquid isopropyl alcohol (IP), were placed in the sampling hood to maintain assess possible sample equipment leaks. Note that the 1,1-DFA was not used during the September sampling event, since the IP was deemed to be adequate. A PID, which allowed for monitoring of isopropyl alcohol, was used to periodically monitor the sampling hood atmosphere integrity.

After completion of sampling activities, the vapor probe was temporary sealed with three inches of dirt and three inches of concrete, so that they can be re-entered and re-sampled if needed.

Soil vapor samples from each of the three events were analyzed for the following parameters with appropriate detection levels which are below regulatory ESLs.

USEPA TO-15 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)

All analyses were analyzed by Sunstar Laboratories, a California-certified analytical laboratory, with standard turnaround on results.

4.0 RESULTS OF INVESTIGATION

4.1 General Subsurface Conditions

Soil boring logs for the eight investigative borings and one monitoring well are contained in Appendix B. In addition, a lithologic cross section location map and a lithologic cross section are shown on Figure 5 and Figure 6, respectively. Soils encountered in the logged investigative and well borings generally consisted of silts and clays, with relatively thin discontinuous silty and clayey gravels and sands. In particular, one discontinuous three- to five-foot thick silty gravel is present at approximately 15 feet in depth, and another fairly persistent two- to three-foot thick silty gravel is present at approximately 25 feet in depth. Another silty/clayey sand was logged at about 28 feet in depth in deeper borings (GA-1, GA-2, and GA-3).

Free groundwater was encountered in the 15-foot gravel/sand in borings GA-2 and GA-3 and in the 25-foot sand in borings GA-1, GA-6, GA-7, and GA-8. In boring GA-4, free groundwater was encountered in a clayey sand/gravel layer present from approximately 20 to 22 feet in depth. GA-5 was a “hydropunch” boring and, as such, was not logged; however, groundwater was sampled at approximately 25 to 30 feet in depth.

Slight to moderate hydrocarbon odors were encountered in soils in boring GA-4 from approximately 16 to 22 feet in depth (there was no recovery of soil cores above 16 feet in depth in GA-4). No other hydrocarbon odors, and no PID detections or groundwater odors or sheens, were encountered in the borings.

4.2 Results of Laboratory Analyses

Soil and groundwater laboratory analytical results are summarized in Table 1 and on Figure 7. Soil vapor laboratory analytical results are summarized in Table 2. Laboratory data reports and chain of custody records for soil, water, and vapor analyses are contained in Appendix C.

Low concentrations of gasoline-range hydrocarbons were encountered in soil samples in boring GA-4, located within the former UST excavation cavity. Low to moderate concentrations of gasoline-range hydrocarbons were encountered in grab groundwater samples in borings GA-2 and GA-4, and very low to nondetectable concentrations of primarily MTBE were encountered in grab groundwater samples from borings GA-1, GA-3, GA-5, GA-6, and MW-7.

Soil vapor samples collected on May 5, 2011 and June 10, 2011 showed elevated concentrations of the leak check compound 1,1-Difluoroethane (1,1-DFA) and low to nondetectable concentrations of BTEX constituents. Soil vapor samples collected on September 28, 2011 showed relatively low levels of the leak check compound isopropyl alcohol (IP) and no significant concentrations of BTEX constituents.

5.0 CONCLUSIONS

Soil and groundwater laboratory analytical results from this investigation confirm the site conceptual model (SCM) for the site developed and summarized in the *Closure Request Report* (Gribi Associates, February 3, 2010). The SCM for this site generally posits that contaminant soil and groundwater plume migration has been minimal at this site, with soil hydrocarbon

migration not exceeding approximately 30 feet and groundwater hydrocarbon migration not exceeding approximately 50 feet. The limited extent of these impacts appears to have been primarily the result of relatively low permeability, clay-dominated soils (including clayey sands and gravels) beneath the site.

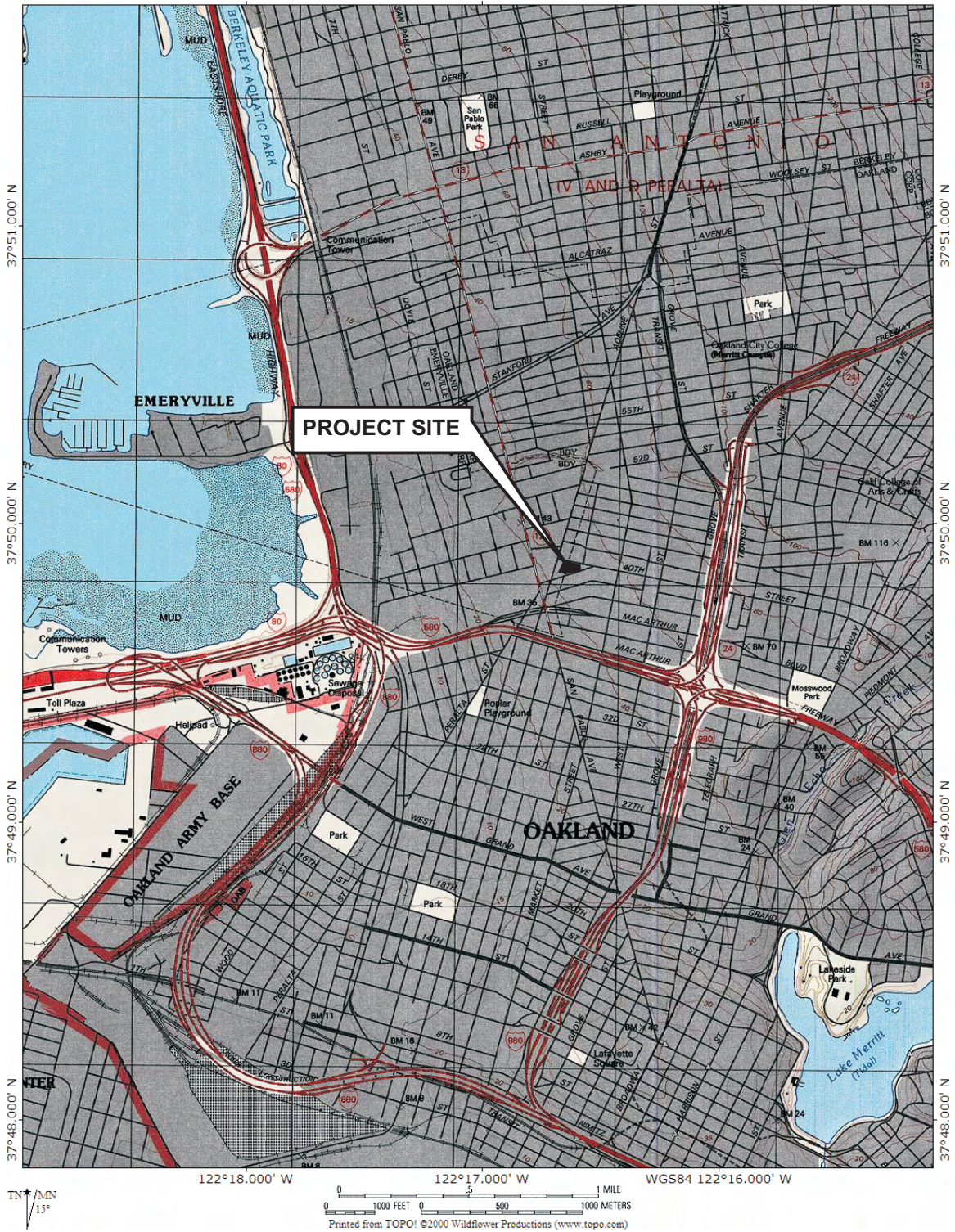
Based on the results from the most recent (September 28, 2011) vapor sampling event, vapor intrusion is not a significant concern at this site. Soil vapor samples collected during the September event showed BTEX concentrations that are below regulatory ESLs for vapor intrusion into buildings. Note that these samples were collected in a permeable zone just below the Bay Mud (just below approximately 4.5 feet in depth) and provide, we believe, a true representation of soil vapor quality beneath the Bay Mud. Note also that, while the leak check compound (IP) was detected in the soil vapor samples (1,500 ug/m³ and 1,800 ug/m³), these IP detections were less than three percent of the Shroud sample leak check concentration (57,000 ug/m³); hence, we consider the soil vapor sample results from the September 28, 2011 event to be valid (leak detection compound detections of up to ten percent are generally considered allowable)¹.

Based on the results of this investigation, as well as on results of previous investigative and remediation activities, we recommend that regulatory closure be granted for this site. The preponderance of evidence clearly shows that this site meets generally-accepted closure criteria and should be granted regulatory site closure as a “low risk” site with unrestricted land use. Specifically, site closure should be granted because: (1) The contaminant sources have been largely removed; (2) The site has been adequately characterized; (3) The contaminant plume is not migrating, and chemical concentrations in groundwater are expected to meet water quality objectives in the future; (4) No other waters of the State, water supply wells, or other sensitive receptors are likely to be impacted; and (5) The site does not pose a significant risk to human or environmental receptors.

¹*Detailed Field Investigation of Vapor Intrusion Processes (ESTCP Project ER-0423*, prepared for the Environmental Security Technology Certification Program by GSI Environmental, Inc., September 2008 (see www.estcp.org/Technology/ER-0423-VFS.cfm.) (Page 73 and 74).

FIGURES

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

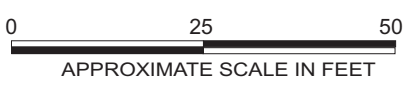
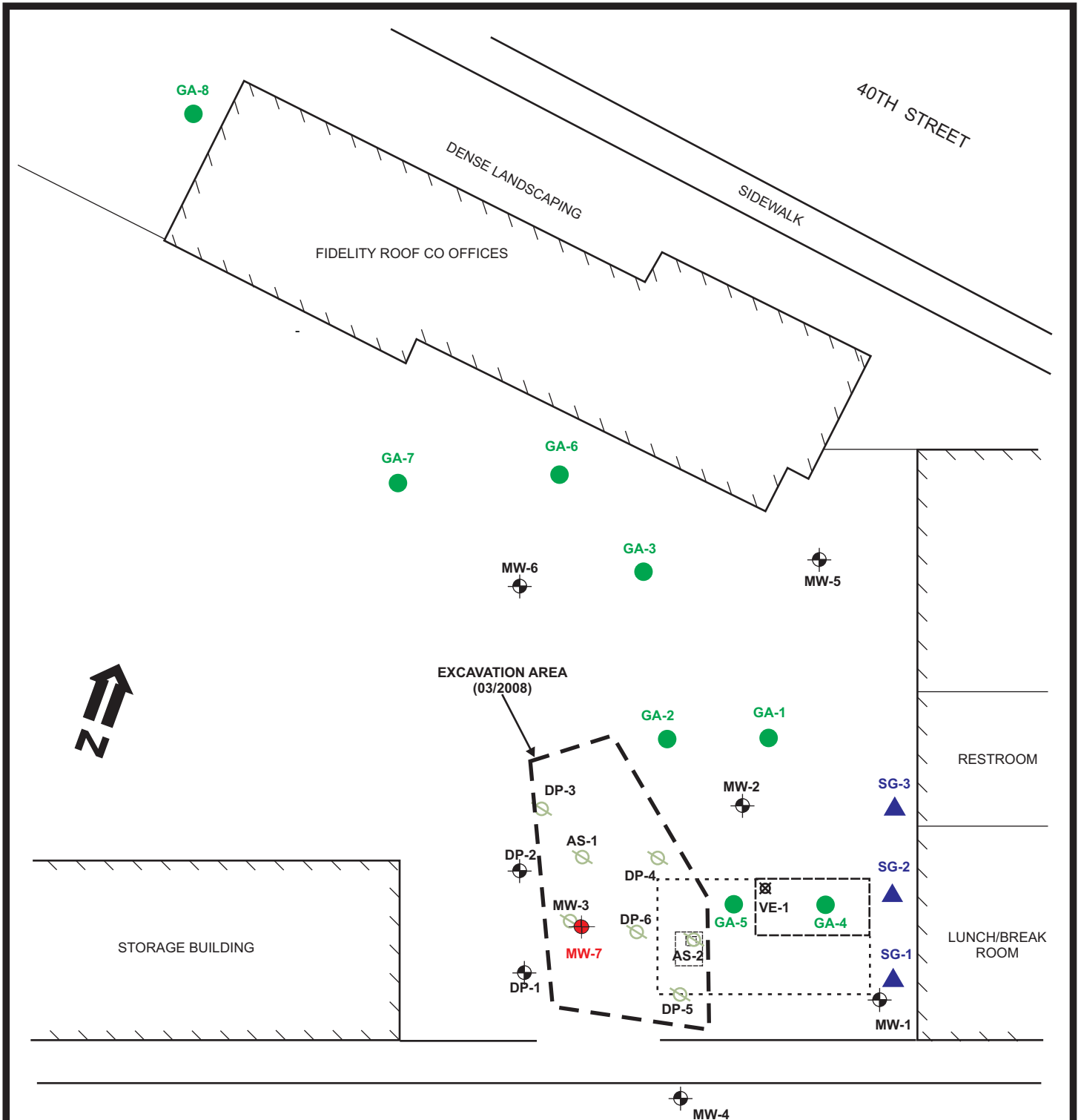


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DRAWN BY: MR	SCALE:
PROJECT NO:	

SITE VICINITY MAP

1075 40TH STREET
OAKLAND, CALIFORNIA

DATE: 11/18/2011	FIGURE: 1



- ABANDONED WELL
- REMEDIATION WELL
- GROUNDWATER MONITORING WELL
- NEW SOIL GAS SAMPLE LOCATION
- NEW SOIL BORING LOCATION
- NEW GROUNDWATER MONITORING WELL

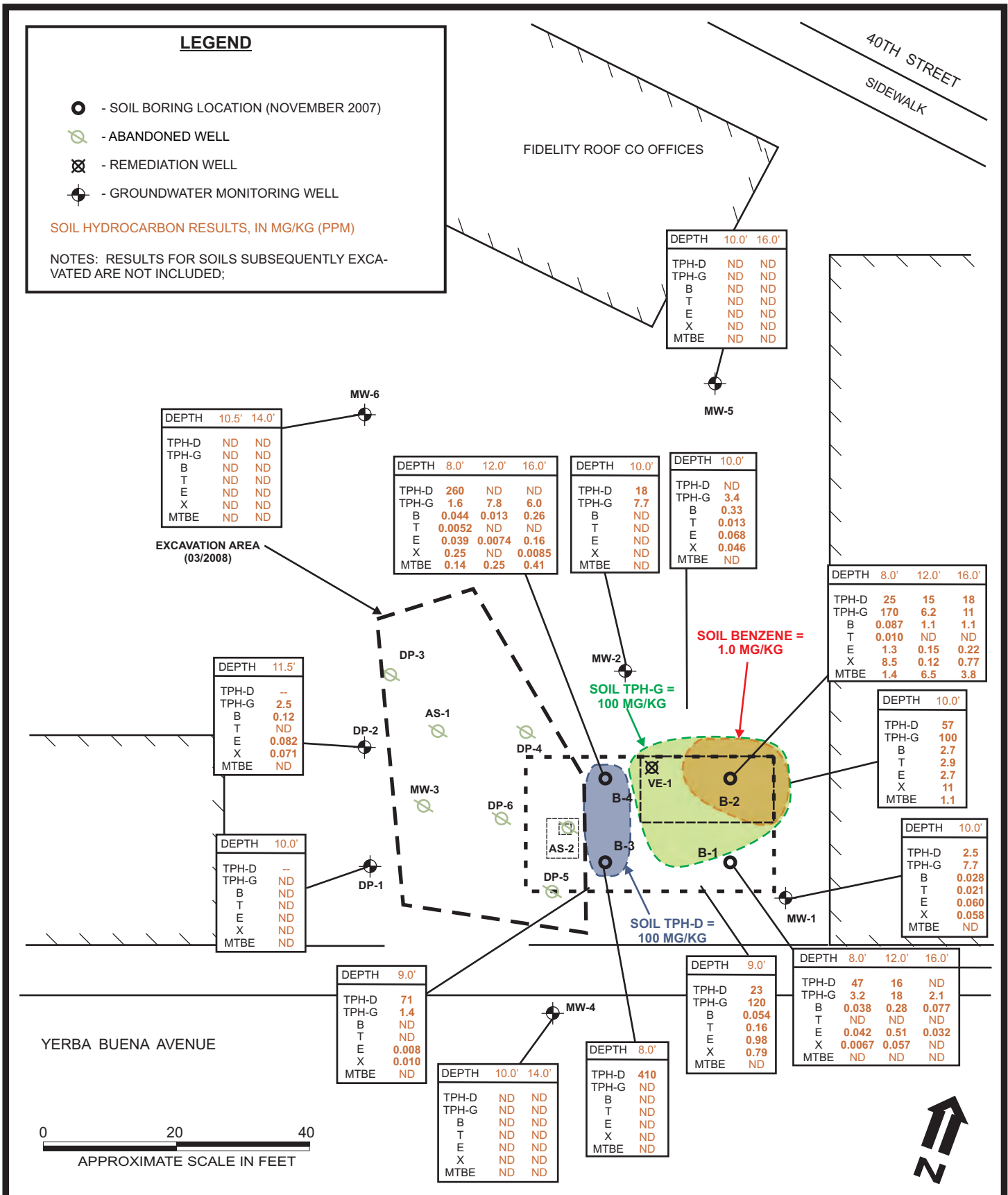
DESIGNED BY:	CHECKED BY:	SITE PLAN 1075 40TH STREET OAKLAND, CALIFORNIA	DATE: 11/18/2011	FIGURE: 2	
DRAWN BY: MR	SCALE:				
PROJECT NO:					

LEGEND

- - SOIL BORING LOCATION (NOVEMBER 2007)
- ⊗ - ABANDONED WELL
- ⊗ - REMEDIATION WELL
- ⊕ - GROUNDWATER MONITORING WELL

SOIL HYDROCARBON RESULTS, IN MG/KG (PPM)

NOTES: RESULTS FOR SOILS SUBSEQUENTLY EXCAVATED ARE NOT INCLUDED;



DEPTH 10.0' 16.0'		
TPH-D	ND	ND
TPH-G	ND	ND
B	ND	ND
T	ND	ND
E	ND	ND
X	ND	ND
MTBE	ND	ND

DEPTH 10.5' 14.0'		
TPH-D	ND	ND
TPH-G	ND	ND
B	ND	ND
T	ND	ND
E	ND	ND
X	ND	ND
MTBE	ND	ND

DEPTH 8.0' 12.0' 16.0'			
TPH-D	260	ND	ND
TPH-G	1.6	7.8	6.0
B	0.044	0.013	0.26
T	0.0052	ND	ND
E	0.039	0.0074	0.16
X	0.25	ND	0.0085
MTBE	0.14	0.25	0.41

DEPTH 10.0'	
TPH-D	18
TPH-G	7.7
B	ND
T	ND
E	ND
X	ND
MTBE	ND

DEPTH 10.0'	
TPH-D	ND
TPH-G	3.4
B	0.33
T	0.013
E	0.068
X	0.046
MTBE	ND

DEPTH 8.0' 12.0' 16.0'			
TPH-D	25	15	18
TPH-G	170	6.2	11
B	0.087	1.1	1.1
T	0.010	ND	ND
E	1.3	0.15	0.22
X	8.5	0.12	0.77
MTBE	1.4	6.5	3.8

DEPTH 11.5'	
TPH-D	--
TPH-G	2.5
B	0.12
T	ND
E	0.082
X	0.071
MTBE	ND

DEPTH 10.0'	
TPH-D	57
TPH-G	100
B	2.7
T	2.9
E	2.7
X	11
MTBE	1.1

DEPTH 10.0'	
TPH-D	--
TPH-G	ND
B	ND
T	ND
E	ND
X	ND
MTBE	ND

DEPTH 10.0'	
TPH-D	2.5
TPH-G	7.7
B	0.028
T	0.021
E	0.060
X	0.058
MTBE	ND

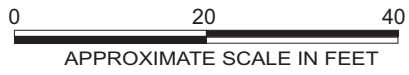
DEPTH 9.0'	
TPH-D	71
TPH-G	1.4
B	ND
T	ND
E	0.008
X	0.010
MTBE	ND

DEPTH 9.0'	
TPH-D	23
TPH-G	120
B	0.054
T	0.16
E	0.98
X	0.79
MTBE	ND

DEPTH 8.0' 12.0' 16.0'			
TPH-D	47	16	ND
TPH-G	3.2	18	2.1
B	0.038	0.28	0.077
T	ND	ND	ND
E	0.042	0.51	0.032
X	0.0067	0.057	ND
MTBE	ND	ND	ND




DEPTH 10.0' 14.0'		
TPH-D	ND	ND
TPH-G	ND	ND
B	ND	ND
T	ND	ND
E	ND	ND
X	ND	ND
MTBE	ND	ND

DEPTH 8.0'	
TPH-D	410
TPH-G	ND
B	ND
T	ND
E	ND
X	ND
MTBE	ND



DESIGNED BY:	CHECKED BY:	HISTORIC POST-REMEDIAL SOIL HYDROCARBON RESULTS 1075 40TH STREET OAKLAND, CALIFORNIA	DATE: 11/18/2011	FIGURE: 3
DRAWN BY: MR	SCALE:			
PROJECT NO:				

LEGEND

-  - ABANDONED WELL
-  - REMEDIATION WELL
-  - GROUNDWATER MONITORING WELL

CONCENTRATIONS IN MICROGRAMS PER LITER, UG/L

FIDELITY ROOF CO OFFICE

40TH STREET
SIDEWALK

DATE: 05/12/2010
GW ELEV: 41.94'
TPH-G: <50
B: <0.5
T: <0.5
E: <0.5
X: <1.0
MTBE: <1.0
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <50

DATE: 05/12/2010
GW ELEV: 41.82'
TPH-G: 99
B: <0.50
T: <0.50
E: <0.50
X: <1.0
MTBE: 220
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <500

DATE: 05/12/2010
GW ELEV: 42.46'
TPH-G: <50
B: <0.5
T: <0.5
E: <0.5
X: <1.0
MTBE: <1.0
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <50

DATE: 05/12/2010
GW ELEV: 42.01'
TPH-G: 1,700
B: 130
T: <0.5
E: 28
X: <1.0
MTBE: 1,500
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: 4,700
TPH-D: 610

DATE: 11/27/2007
TPH-G: 320
B: 4.6
T: 0.51
E: 4.6
X: 35.6
MTBE: 180
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <500

DATE: 05/12/2010
GW ELEV: 42.83'
TPH-G: <50
B: <0.5
T: <0.5
E: <0.5
X: <1.0
MTBE: 4.5
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <50

DATE: 11/27/2007
TPH-G: <50
B: 1.2
T: <0.5
E: <0.5
X: 1.0
MTBE: 9.4
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <500

DATE: 05/12/2010
GW ELEV: 42.53
TPH-G: <50
B: <0.5
T: 0.71
E: <0.5
X: <1.0
MTBE: <1.0
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <50

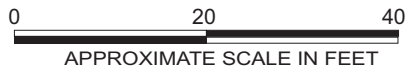
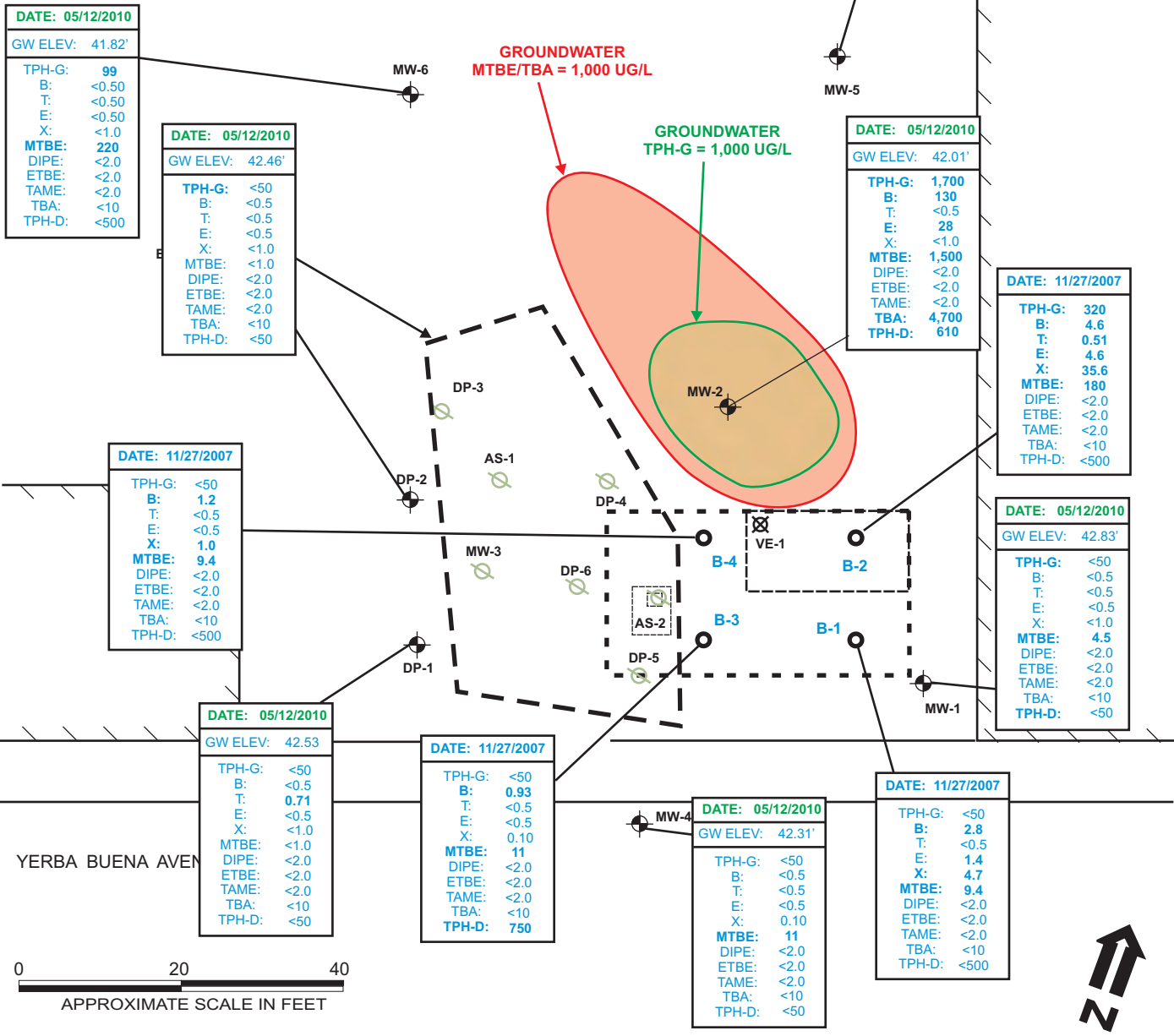
DATE: 11/27/2007
TPH-G: <50
B: 0.93
T: <0.5
E: <0.5
X: 0.10
MTBE: 11
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: 750

DATE: 05/12/2010
GW ELEV: 42.31'
TPH-G: <50
B: <0.5
T: <0.5
E: <0.5
X: 0.10
MTBE: 11
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <50

DATE: 11/27/2007
TPH-G: <50
B: 2.8
T: <0.5
E: 1.4
X: 4.7
MTBE: 9.4
DIPE: <2.0
ETBE: <2.0
TAME: <2.0
TBA: <10
TPH-D: <500

GROUNDWATER
MTBE/TBA = 1,000 UG/L

GROUNDWATER
TPH-G = 1,000 UG/L

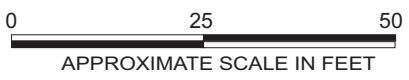
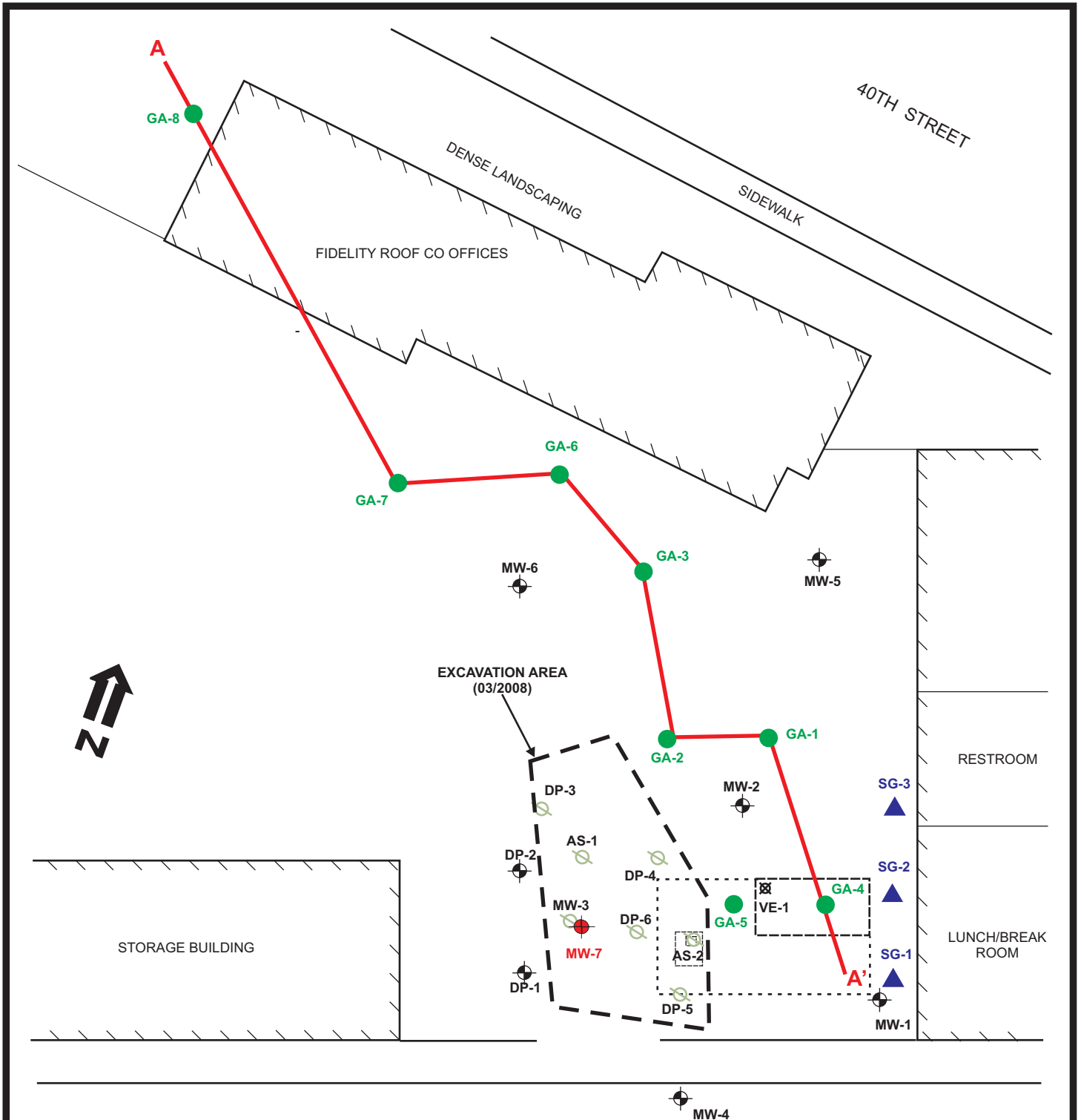


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DRAWN BY: MR	SCALE:
PROJECT NO:	

**HISTORIC POST-REMEDIATION
GROUNDWATER HYDROCARBON RESULTS**

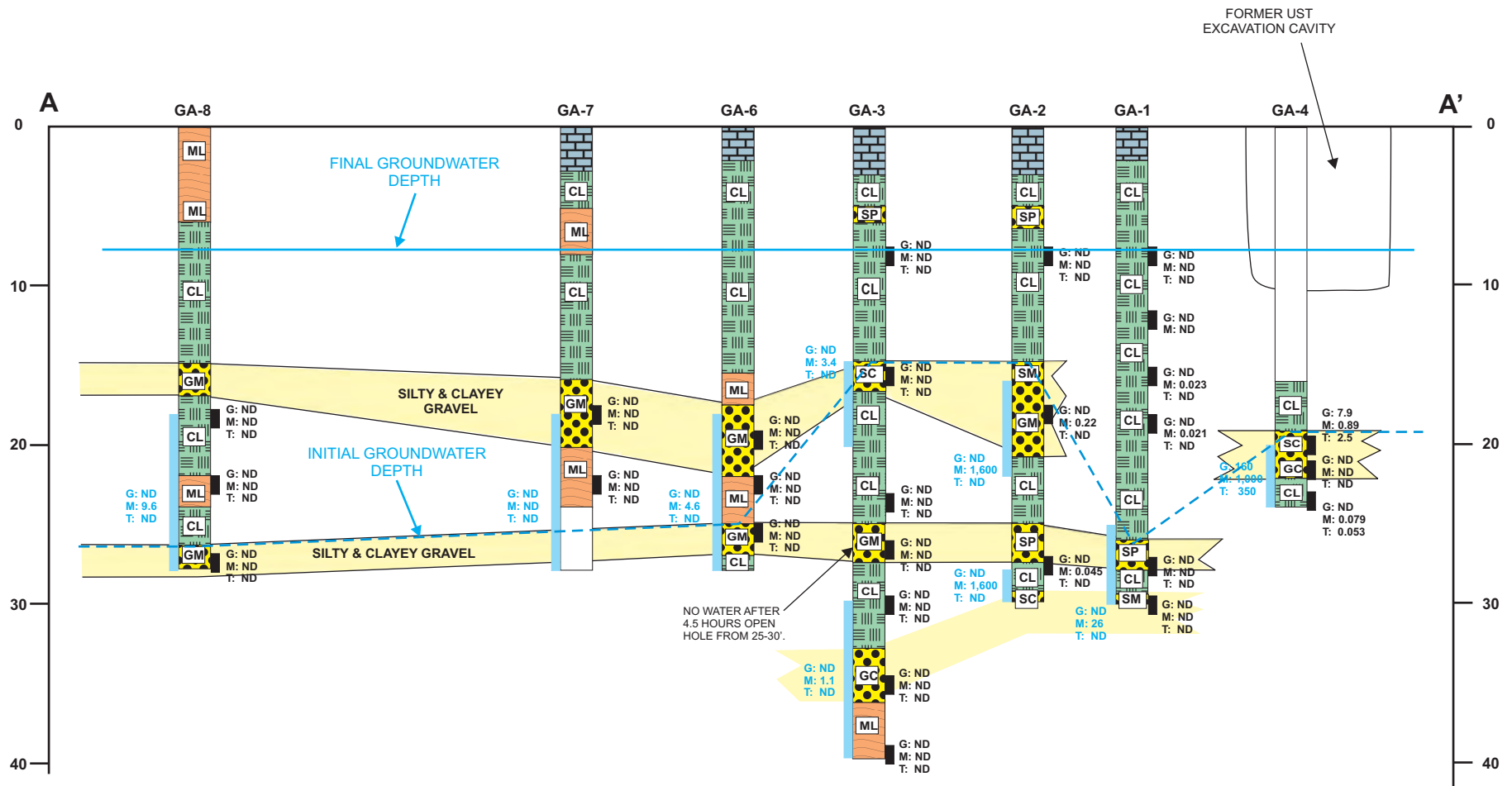
1075 40TH STREET
OAKLAND, CALIFORNIA

DATE: 11/18/2011	FIGURE: 4



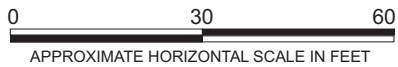
- ABANDONED WELL
- REMEDIATION WELL
- GROUNDWATER MONITORING WELL
- NEW SOIL GAS SAMPLE LOCATION
- NEW SOIL BORING LOCATION
- NEW GROUNDWATER MONITORING WELL

DESIGNED BY:	CHECKED BY:	CROSS SECTION LOCATION MAP	DATE: 11/18/2011	FIGURE: 5	
DRAWN BY: MR	SCALE:				
PROJECT NO:					

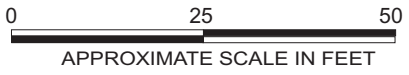
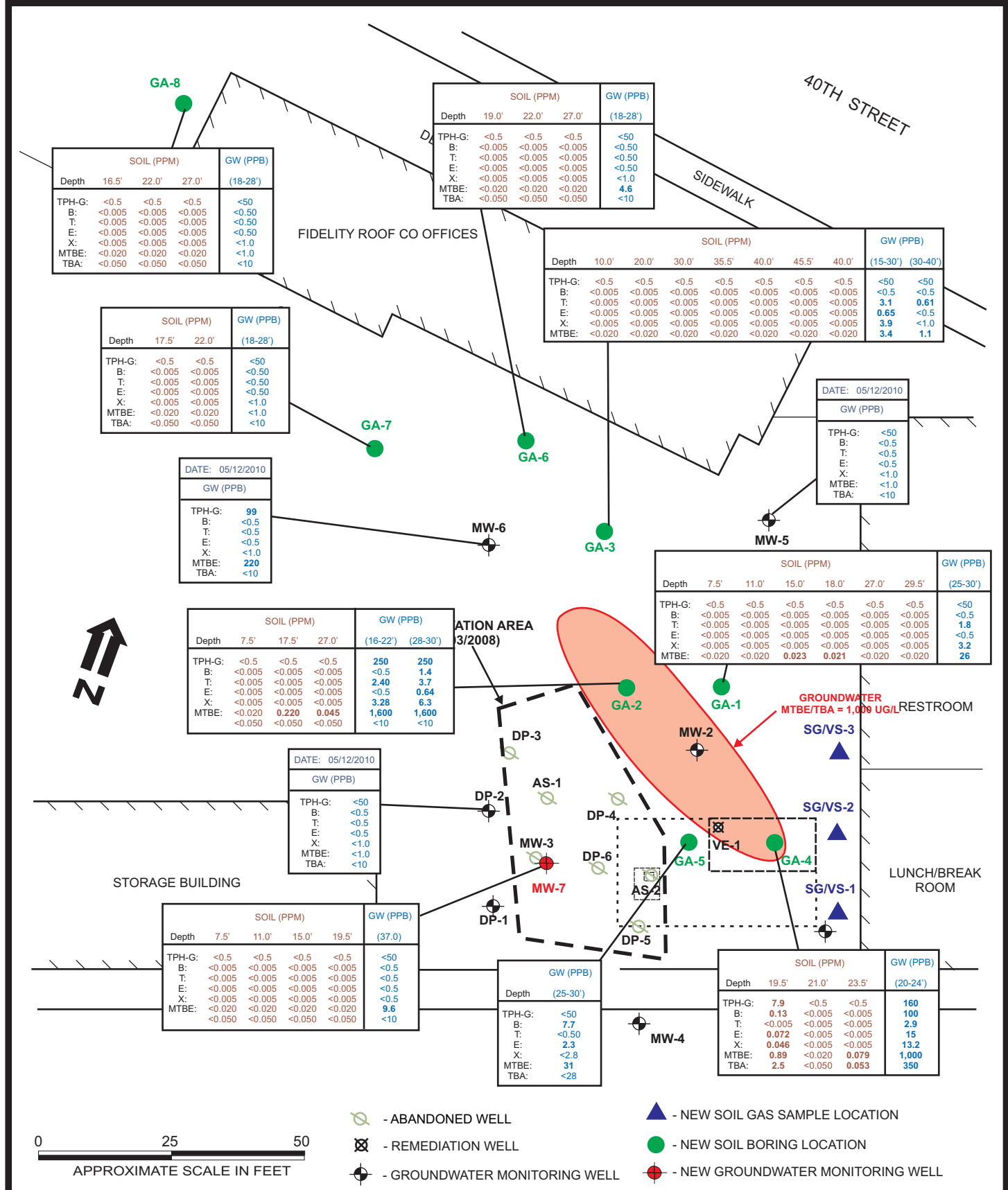


LEGEND

- GROUNDWATER SAMPLE INTERVAL: G: ND, M: 4.6, T: ND → TPH-G, MTBE & TBA RESULTS, UG/L
- SOIL SAMPLE INTERVAL: G: 7.9, M: 0.89, T: 2.5 → TPH-G, MTBE & TBA RESULTS, MG/KG



DESIGNED BY:	CHECKED BY:	LITHOLOGIC CROSS SECTION	DATE: 11/18/11	FIGURE: 4
DRAWN BY: JEG	SCALE:			
PROJECT NUMBER:		1075 40TH STREET OAKLAND, CALIFORNIA		



- NEW SOIL BORING LOCATION
- NEW GROUNDWATER MONITORING WELL
- NEW SOIL GAS SAMPLE LOCATION
- ABANDONED WELL
- REMEDIATION WELL
- GROUNDWATER MONITORING WELL

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

**SOIL & GROUNDWATER
HYDROCARBON RESULTS**

1075 40TH STREET
OAKLAND, CALIFORNIA

DATE: 11/18/2011	FIGURE: 7

TABLES

Table 1
SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Soil Concentration: milligrams per kilogram (mg/kg), Groundwater Concentration: micrograms per kilogram (ug/L)							
			TPH-G	B	T	E	X	MTBE	TBA	OXY
GA-1-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-11.5	Soil	11.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-15.0	Soil	15.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.023	<0.050	ND
GA-1-18.0	Soil	18.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.021	<0.050	ND
GA-1-27.0	Soil	27.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-1-29.5	Soil	29.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
<i>GA-1-W</i>	<i>Water</i>	<i>(25-30 feet)</i>	<i><50</i>	<i><0.50</i>	<i>1.8</i>	<i><0.50</i>	<i>3.2</i>	<i>26</i>	<i><10</i>	<i>ND</i>
GA-2-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-2-17.5	Soil	17.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.220	<0.050	ND
GA-2-27.0	Soil	27.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.045	<0.050	ND
<i>GA-2-W16-22</i>	<i>Water</i>	<i>(16-22 feet)</i>	<i>250</i>	<i><0.50</i>	<i>2.4</i>	<i><0.50</i>	<i>3.28</i>	<i>1,600</i>	<i><10</i>	<i>ND</i>
<i>GA-2-W28-30</i>	<i>Water</i>	<i>(28-30 feet)</i>	<i>250</i>	<i>1.4</i>	<i>3.7</i>	<i>0.64</i>	<i>6.3</i>	<i>1,600</i>	<i><10</i>	<i>ND</i>
GA-3-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-15.0	Soil	15.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-23.5	Soil	23.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-26.0	Soil	26.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-29.5	Soil	29.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-34.5	Soil	34.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-3-39.5	Soil	39.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
<i>GA-3-W-15-20</i>	<i>Water</i>	<i>(15-20 feet)</i>	<i><50</i>	<i><0.50</i>	<i>3.1</i>	<i>0.65</i>	<i>3.9</i>	<i>3.4</i>	<i><10</i>	<i>ND</i>
<i>GA-3-W-30-40</i>	<i>Water</i>	<i>(30-40 feet)</i>	<i><50</i>	<i><0.50</i>	<i>0.61</i>	<i><0.50</i>	<i><1.0</i>	<i>1.1</i>	<i><10</i>	<i>ND</i>
GA-4-19.5	Soil	19.5 feet	7.9	0.13	<0.005	0.072	0.046	0.89	2.5	ND
GA-4-21.0	Soil	21.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-4-23.5	Soil	23.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	0.079	0.053	ND
<i>GA-4-W-20-24</i>	<i>Water</i>	<i>(20-24 feet)</i>	<i>160</i>	<i>100</i>	<i>2.9</i>	<i>15</i>	<i>13.2</i>	<i>1,000</i>	<i>350</i>	<i>ND</i>
<i>GA-5-W-25-30</i>	<i>Water</i>	<i>(25-30 feet)</i>	<i><50</i>	<i>7.7</i>	<i><0.50</i>	<i>2.3</i>	<i><2.8</i>	<i>31</i>	<i><28</i>	<i>2.5</i>
GA-6-19.0	Soil	19.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-6-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-6-27.0	Soil	27.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
<i>GA-6-W</i>	<i>Water</i>	<i>(18-28 feet)</i>	<i><50</i>	<i><0.50</i>	<i><0.50</i>	<i><0.50</i>	<i><1.0</i>	<i>4.6</i>	<i><10</i>	<i>ND</i>

Table 1
SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Soil Concentration: milligrams per kilogram (mg/kg), Groundwater Concentration: micrograms per kilogram (ug/L)							
			TPH-G	B	T	E	X	MTBE	TBA	OXY
GA-7-17.5	Soil	17.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-7-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-7-W	Water	(18-28 feet)	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	ND
GA-8-16.5	Soil	16.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-22.0	Soil	22.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-27.5	Soil	27.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
GA-8-W	Water	(18-28 feet)	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	ND
MW-7-7.5	Soil	7.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-11.0	Soil	11.0 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-15.5	Soil	15.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7-19.5	Soil	19.5 feet	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020	<0.050	ND
MW-7	Water	(5-20 feet)	<50	<0.50	<0.50	<0.50	<1.0	9.6	<10	ND
Shallow Soil ESL, groundwater IS a drinking water source, commercial land use			83	0.044	2.9	3.3	2.3	0.075	0.075	0.023
Groundwater ESL, groundwater IS a drinking water source, commercial land use.			100	1.0	40	30	20	12	12	5.0

Table Notes:

TPH-D = total petroleum hydrocarbons as diesel
 TPH-G = total petroleum hydrocarbons as gasoline
 MTBE = Methyl tert-butyl ether
 <1.0 = Not detected above the expressed detection level.
 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, Interim Final, May 2008.

Table 2
SUMMARY OF SOIL VAPOR LABORATORY ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Constituent Concentration, micrograms per cubic meter (ug/m ³)					
			B	T	E	X	1,1-DFA	IP
Vapor Samples, May 5, 2011, Sampled from temporary vapor probes.								
VS-1	Vapor	1.5 feet	7.5	15	8.0	28.0	27,000	--
VS-2	Vapor	1.5 feet	6.9	19	7.1	23.9	26,000	--
VS-3	Vapor	0.5 feet	9.6	20	7.4	26.5	28,000	--

Table 2
SUMMARY OF SOIL VAPOR LABORATORY ANALYTICAL RESULTS
 Fidelity Roof Co. UST Site

Sample ID	Sample Matrix	Sample Depth	Constituent Concentration, micrograms per cubic meter (ug/m ³)					
			B	T	E	X	1,1-DFA	IP
Vapor Samples, June 10, 2011, Sampled from temporary vapor wells installed in hand auger borings.								
VS-1	Vapor	1.5 feet	<3.3	14	32	202	34,000	--
VS-2	Vapor	1.5 feet	<3.3	6.7	10	57	19,000	--
VS-3	Vapor	0.5 feet	<3.3	9.1	6.9	38.8	23,000	--
Vapor Samples, September 28, 2011, Sampled from temporary vapor wells installed in hand auger borings.								
SG-1	Vapor	4.5 feet	<3.3	26	6.3	37.7	--	1,800
SG-2	Vapor	4.5 feet	<160	<190	<220	<220	--	1,500
SG-3	Vapor	4.5 feet	Pulled water during purging no sample collected					
SHROUD	Vapor	--	<160	<190	<220	<220	--	57,000
ESL, shallow soil gas, residential			84	6,300	980	21,000	--	--

TPH-D = Total petroleum hydrocarbons as diesel
 TPH-G = Total petroleum hydrocarbons as gasoline
 B = Benzene, T = Toluene, E = Ethylbenzene, X = Xylenes
 1,1-DFA = 1,1-Difluoroethane (leak check compound)
 IP = Isopropyl Alcohol (leak check compound)
 <3.3 = Not detected above the expressed detection level.
 -- = Not analyzed for this analyte

ESL = Environmental Screening Level, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, May 2008.
 Res = Residential Land Use
 CI = Commercial/Industrial Land Use

APPENDIX A
DRILLING AND WELL PERMITS

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 04/05/2011 By jamesy

Permit Numbers: W2011-0209 to W2011-0210
Permits Valid from 04/07/2011 to 04/08/2011

Application Id: 1302027887997
Site Location: 1075 40th Street
Project Start Date: 04/07/2011
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site:Oakland

Completion Date:04/08/2011

Applicant: Gribi Associates - Jim Gribi
1090 Adams Street, Suite K, Benicia, CA 94510
Property Owner: Monte Upshaw
1075 40th Street, Oakland, CA 94608
Client: Jim Gribi
1090 Adams Street, Suite K, Benicia, CA 94510
Contact: Jim Gribi

Phone: 707-748-7743

Phone: 510-547-6330

Phone: 707-748-7743

Phone: 707-748-7743
Cell: 707-631-1505

Receipt Number: WR2011-0102 Total Due: \$662.00
Payer Name : James E. Gribi Total Amount Paid: \$662.00
Paid By: MC PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 7 Boreholes
Driller: RSI Drilling - Lic #: 802334 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2011-0209	04/05/2011	07/06/2011	7	2.50 in.	30.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Alameda County Public Works Agency - Water Resources Well Permit

5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Monitoring Well Replacement-(Redrill)-Monitoring - 1 Wells

Driller: RSI Drilling - Lic #: 802334 - Method: DP

Work Total: \$397.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2011-0210	04/05/2011	07/06/2011	MW-7	8.00 in.	2.00 in.	3.00 ft	20.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
3. Remove the Christy box or similar structure. Drill out & Replace with New Well.
4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
7. Minimum surface seal thickness is two inches of cement grout placed by tremie
8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum

Alameda County Public Works Agency - Water Resources Well Permit

depth practicable or 20 feet.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

10. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

APPENDIX B
SOIL BORING LOGS

LOG OF SOIL BORING

BORING NUMBER : GA-1

BORING LOCATION: NORTH OF MW-2

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/07/2011

COMPLETION DATE: 04/07/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 30.0 FEET

GROUNDWATER DEPTH: 26.0 FT. INITIAL
APPROX. 8 FT FINAL

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL	
						DESCRIPTION	USCS
						0.0 - 2.0 ft.	Asphalt and base gravel.
					CL	2.0 - 6.5 ft.	Sandy Clay (CL) Reddish brown, firm, dense, some fine gravel clasts, moist, no hydrocarbon odors or staining.
10	GA-1-7.5	7.5 FT.		▼ PID = 0			
					CL	6.5 - 14.0 ft.	Clay (CL) Grey brown, hard, firm, dense, moist, no hydrocarbon odors or staining.
	GA-1-11.5	11.5 FT.		PID = 0			
					CL	14.0 - 17.5 ft.	Silty Clay (CL) Brown, soft to firm, some gravel clasts, moist to wet, no hydrocarbon odors or staining.
	GA-1-15.0	15.0 FT.		PID = 0			
					CL	17.5 - 20.0 ft.	Gravelly Clay (CL) Brown, firm to soft, moist to wet, no hydrocarbon odors or staining.
20	GA-1-18.0	18.0 FT.		PID = 0			
					CL	20.0 - 26.0 ft.	Clay (CL) Brown, firm, dense, moist, no hydrocarbon odors or staining.
				▽			
	GA-1-27.0	27.0 FT.		PID = 0	SP	26.0 - 28.0 ft.	Gravelly Sand (SP) Brown, firm to loose, silty, subangular clasts to 1/2 inch diameter, wet, no hydrocarbon odors or staining.
30	GA-1-27.5	27.5 FT.		PID = 0	CL	28.0 - 29.5 ft.	Clay (CL) Brown, firm, dense, moist, no hydrocarbon odors or staining.
					SM	29.5 - 30.0 ft.	Silty Sand (SM) Brown, firm to soft, very fine to fine grained, wet, no hydrocarbon odors or staining.
						TOTAL DEPTH: 30.0 FEET	
						COLLECTED GRAB GROUNDWATER SAMPLE GA-1-W AT 30 FT BGS, OPEN HOLE WITH SCREEN FROM 25 TO 30 BGS. FT & BLANK CSG TO SURFACE.	
40							
50							

LOG OF SOIL BORING

BORING NUMBER : **GA-2**

BORING LOCATION: NORTHWEST OF MW-2

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/07/2011

COMPLETION DATE: 04/07/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 30.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL	
						0.0 - 3.0 ft.	Asphalt and base gravel.
					CL	3.0 - 5.0 ft.	Clay (CL) Dark Grey, silty, moist, no hydrocarbon odors or staining.
					SP	5.0 - 6.5 ft.	Gravelly Sand (SP) Grey Brown, loosely to firm, moist, no hydrocarbon odors or staining.
10	GA-2-7.5	7.5 FT.		PID = 0	CL	6.5 - 15.5 ft.	Silty Clay (CL) Light grey brown, firm, dense, moist, no hydrocarbon odors or staining.
					SM	15.5 - 16.5 ft.	Silty Sand (SM) Brown, fine to very fine, loose, wet, no hydrocarbon odors or staining.
20	GA-2-17.0	17.0 FT.		PID = 0	GM	16.5 - 20.5 ft.	Silty Gravel (GM) Brown, silty to sandy, wet, loose to firm, no hydrocarbon odors or staining.
					CL	20.5 - 25.0 ft.	Silty Clay (CL) Brown, hard, dense, moist, no hydrocarbon odors or staining.
					SP	25.0 - 27.0 ft.	Gravelly Sand (SP) Brown, sandy grades to gravelly sand, wet, firm to loose, no hydrocarbon odors or staining.
30	GA-2-27.0	27.0 FT.		PID = 0	CL	27.0 - 29.0 ft.	Clay (CL) Brown, slightly silty, hard, dense, no hydrocarbon odors or staining.
					SC	29.0 - 30.0 ft.	Clayey Sand (SC) Brown, soft, very fine, wet, no hydrocarbon odors or staining.
						TOTAL DEPTH: 30.0 FEET	
						COLLECTED GRAB GROUNDWATER SAMPLE GA-2-W-16-22, OPEN AT 22 FT BGS,	
						COLLECTED GRAB GROUNDWATER SAMPLE GA-2-W-28-30; HYDRO-PUNCH FROM 28-30 FT BGS,	
40							
50							

LOG OF SOIL BORING

BORING NUMBER : **GA-3**

BORING LOCATION: NORTH OF GA-1 & GA-2

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/07/2011

COMPLETION DATE: 04/07/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 40.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL	
						0.0 - 1.5 ft.	Asphalt and base gravel.
					CL	1.5 - 5.0 ft.	Silty Clay (CL) Dark Grey, firm, dense, no hydrocarbon odors or staining.
					SP	5.0 - 6.0 ft.	Gravelly Sand (SP) Grey Brown, loosely to firm, moist, no hydrocarbon odors or staining.
10	GA-3-7.5	7.5 FT.		▼ PID = 0	CL	6.0 - 15.0 ft.	Clay (CL) Grey brown, dense, hard, moist, no hydrocarbon odors or staining.
					SC	15.0 - 18.0 ft.	Clayey Sand (SC) Brown, soft to firm, fine to very fine, wet, no hydrocarbon odors or staining.
20	GA-3-15.0	15.0 FT.		▽ PID = 0	CL	18.0 - 20.0 ft.	Silty Clay (CL) Brown, firm, dense, moist, no hydrocarbon odors or staining.
					CL	20.0 - 25.5 ft.	Silty Clay (CL) Brown, firm, dense, moist, some soft wet clay at 23' - 24', no hydrocarbon odors or staining.
	GA-3-23.5	23.5 FT.		PID = 0	GM	25.5 - 27.0 ft.	Silty Gravel (GM) Brown, firm, subrounded clasts to 1", wet, no hydrocarbon odors or staining.
30	GA-3-26.0	26.0 FT.		PID = 0	CL	27.0 - 33.0 ft.	Clay (CL) Brown, hard, dense, moist, no hydrocarbon odors or staining. Soft and wet with very fine sand from 29' - 30'.
	GA-3-29.5	29.5 FT.		PID = 0	GC	33.0 - 36.5 ft.	Clayey Gravel (GC) Brown, sand, very fine, wet, no hydrocarbon odors or staining.
40	GA-3-34.5	34.5 FT.		PID = 0	ML	36.5 - 40.0 ft.	Silt (ML) Brown, firm, moist, no hydrocarbon odors or staining.
	GA-3-39.5	39.5 FT.		PID = 0			
50						TOTAL DEPTH: 40.0 FEET COLLECTED GRAB GROUNDWATER SAMPLE GA-3-W-15-20, OPEN AT 20 FT BGS, WAITED FROM 8:45 - 13:15 NO WATER AT 25 - 30 FT BGS CORED 30 - 40 FT BGS. OPEN FROM 30 - 4 FT BGS'	

LOG OF SOIL BORING

BORING NUMBER : **GA-4**

BORING LOCATION: E SIDE OF FORMER UST PIT

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/08/2011

COMPLETION DATE: 04/8/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 24.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL	
							0.0 - 16.0 ft. No Recovery
10							
20	GA-4-19.5	19.5 FT.		▼ PID = 0	CL	16.0 - 19.0 ft. Silty Clay (CL) Brown, firm, dense, slight to moderate hydrocarbon odors.	
	GA-4-21.0	21.0 FT.		PID = 0	SC	19.0 - 20.5 ft. Clayey Silt (SC) Brown, lightly sandy (very fine), moist to wet, slight to moderate hydrocarbon odors	
	GA-4-23.5	23.5 FT.		PID = 0	GC	20.5 - 22.0 ft. Clayey Gravel (GC) Grey, loose to firm, wet, subangular clasts to 1", slight hydrocarbon odors.	
					CL	22.0 - 24.0 ft. Silty Clay (CL) Brown, firm, dense, slightly moist, no hydrocarbon odors or staining.	
30						TOTAL DEPTH: 24.0 FEET	
						COLLECTED GRAB GROUNDWATER SAMPLE GA-4-W-20-24.	
40							
50							

LOG OF SOIL BORING

BORING NUMBER : GA-5

BORING LOCATION: W SIDE OF FORMER UST PIT

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/08/2011

COMPLETION DATE: 04/08/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 30.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL	
10 20 30 40 50						HYDROPUNCHED; NO LITHOLOGIC LOGGING	
						TOTAL DEPTH: 30.0 FEET COLLECTED HYDROPUNCH GRAB GROUNDWATER SAMPLE GA-5-W-25-30 FT BGS.	

LOG OF SOIL BORING

BORING NUMBER : GA-6

BORING LOCATION: NORTHWEST OF GA-3

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/08/2011

COMPLETION DATE: 04/8/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 28.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL	
						0.0 - 2.0 ft.	Asphalt and base gravel.
					CL	2.0 - 6.0 ft.	Clay (CL) Dark Grey to black, hard, dense, no hydrocarbon odors or staining.
10					CL	6.0 - 15.5 ft.	Silty Clay (CL) Brown, dense, hard, moist, no hydrocarbon odors or staining.
					ML	15.5 - 17.5 ft.	Gravelly Silt (GM) Brown, moist to wet, pea-sized clasts, firm to occ soft (18'-19'), no hydrocarbon odors or staining.
20	GA-6-19.0	19.0 FT.		PID = 0	GM	17.5 - 22.0 ft.	Silty Gravel (GM) Brown, clayey hard, dense, moist, no hydrocarbon odors or staining, no water.
	GA-6-22.0	22.0 FT.		PID = 0	ML	22.0 - 25.0 ft.	Silt (ML) Brown, soft, slightly sandy, clayey, moist to wet, no hydrocarbon odors or staining, no water.
	GA-6-27.0	27.0 FT.		PID = 0	GM	25.0 - 27.0 ft.	Silty Gravel (GM) Brown, hard, dense, moist to wet, no hydrocarbon odors or staining.
30					CL	27.0 - 28.0 ft.	Clay (CL) Brown, hard, dense, moist, no hydrocarbon odors or staining. Pulled outer metal casing and left the PVC with 10 ft. screen.
						TOTAL DEPTH: 28.0 FEET	
						PULLED OUTER METAL CASING & LEFT THE PVC WITH 10FT SCREEN.	
						COLLECTED GRAB GROUNDWATER SAMPLE GA-6-W, OPEN HOLE SCREENED 18-28 FT BGS.	
40							
50							

LOG OF SOIL BORING

BORING NUMBER : **GA-7**

BORING LOCATION: NORTHWEST OF GA-3

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/08/2011

COMPLETION DATE: 04/8/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 28.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL	
						0.0 - 2.5 ft.	Asphalt and base gravel.
					CL	2.5 - 5.0 ft.	Clay (CL) Black to grey, hard, dense, no hydrocarbon odors or staining.
					ML	5.0 - 8.0 ft.	Gravelly Silt (ML) Grey, moist, pea-sized clasts, firm, dense, no hydrocarbon odors or staining.
10					CL	5.0 - 16.0 ft.	Clay (CL) Brown, slightly silty, occasionally gravelly, moist, firm, dense, no hydrocarbon odors or staining.
20	GA-7-17.5	17.5 FT.		PID = 0	GM	16.0 - 20.0 ft.	Silty Gravel (GM) Brown, clayey, hard, dense, moist, occasionally wet, no hydrocarbon odors or staining, no water.
	GA-7-22.0	22.0 FT.		PID = 0	ML	20.0 - 24.0 ft.	Clayey Silt (ML) Brown, soft to firm, locally wet, no hydrocarbon odors or staining.
						24.0 - 28.0 ft.	No Recovery.
30						TOTAL DEPTH: 28.0 FEET COLLECTED GRAB GROUNDWATER SAMPLE GA-7-W, OPEN HOLE SCREENED 18-28 FT BGS.	
40							
50							

LOG OF SOIL BORING

BORING NUMBER : **GA-8**

BORING LOCATION: NORTHWEST OF GA-3

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/08/2011

COMPLETION DATE: 04/8/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 28.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL	
					ML	0.0 - 4.0 ft.	Silt (ML) Brown, loose to firm, moist, soft to firm, no hydrocarbon odors or staining.
					ML	4.0 - 6.0 ft.	Clayey Silt (ML) Dark grey to black, firm, dense, no hydrocarbon odors or staining.
10					CL	6.0 - 15.0 ft.	Clay (CL) Light brown, dense, firm, no hydrocarbon odors or staining.
	GA-7-17.5	17.5 FT.		PID = 0	GM	15.0 - 17.0 ft.	Silty Gravel (GM) Brown, firm, subrounded clasts to 2 inches diameter, no hydrocarbon odors or staining, no water.
20					CL	17.0 - 22.0 ft.	Clay (CL) Brown, dense, firm, slightly silty, moist, no hydrocarbon odors or staining.
	GA-7-22.0	22.0 FT.		PID = 0	ML	22.0 - 24.0 ft.	Clayey Silt (ML) Brown, soft to firm, moist to wet, no hydrocarbon odors or staining.
					CL	24.0 - 26.5 ft.	Silty Clay (CL) Grey brown, dense, firm, no hydrocarbon odors or staining.
30					GM	26.5 - 28.0 ft.	Silty Gravel (GM) Red brown, clayey, subangular clasts to 2-inches diameter, dense, moist, no hydrocarbon odors or staining.
						TOTAL DEPTH: 28.0 FEET COLLECTED GRAB GROUNDWATER SAMPLE GA-8-W, OPEN HOLE SCREENED 18-28 FT BGS.	
40							
50							

LOG OF SOIL BORING

BORING NUMBER : **MW-7**

BORING LOCATION: IN FORMER EXCAVATION
CAVITY

BORING TYPE: SOIL BORING

PROJECT NAME: FIDELITY ROOF CO UST SITE
OAKLAND, CALIFORNIA

FIELD SCIENTIST: JIM GRIBI, PG



START DATE: 04/07/2011

COMPLETION DATE: 04/07/2011

DRILLING CONTRACTOR: RSI DRILLING

DRILLING METHOD: HOLLOW STEM AUGER

BOREHOLE DIAMETER: 8.0 INCHES

COMPLETION METHOD: GWM WELL

BORING TOTAL DEPTH: 20.0 FEET

GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ▼ - FINAL	USCS	LOG OF MATERIAL																
						DESCRIPTION	WELL SPECIFICATIONS															
						0.0 - 2.5 ft. Asphalt and base gravel.																
	MW-7-7.5	7.5 FT.			ML	5.0 - 9.0 ft. Silt (ML) Grey, moist, firm, dense, no hydrocarbon odors or staining.																
10	MW-7-11.0	11.0 FT.			GW	9.0 - 12.0 ft. Gravel (GW) Grey to brown, pea-sized, subrounded clasts, loose, moist to wet, no hydrocarbon odors or staining.																
	MW-7-15.5	15.5 FT.		PID = 0	CL	12.0 - 20.0 ft. Clay (CL) Brown, silty, occasionally gravelly, moist, firm, soft and wet from 14 to 16 ft, moist to wet, no hydrocarbon odors or staining.																
20	MW-7-19.5	19.5 FT.		PID = 0		TOTAL DEPTH: 20.0 FEET																
30						<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><u>WELL SPECIFICATIONS</u></p> <table border="0"> <tr> <td>A - WELL SCREEN DEPTH:</td> <td>15.04 FT</td> <td>CASING TYPE:</td> <td>SCH 40 PVC</td> </tr> <tr> <td>B - WELL SCREEN LENGTH:</td> <td>5.00 FT</td> <td>CASING SIZE:</td> <td>2.0 INCH</td> </tr> <tr> <td>C - DEPTH TO TOP OF SAND:</td> <td>14.00 FT</td> <td>SLOT SIZE:</td> <td>0.020 INCH</td> </tr> <tr> <td>D - DEPTH BENTONITE SEAL:</td> <td>12.00 FT</td> <td></td> <td></td> </tr> </table> </div>	A - WELL SCREEN DEPTH:	15.04 FT	CASING TYPE:	SCH 40 PVC	B - WELL SCREEN LENGTH:	5.00 FT	CASING SIZE:	2.0 INCH	C - DEPTH TO TOP OF SAND:	14.00 FT	SLOT SIZE:	0.020 INCH	D - DEPTH BENTONITE SEAL:	12.00 FT		
A - WELL SCREEN DEPTH:	15.04 FT	CASING TYPE:	SCH 40 PVC																			
B - WELL SCREEN LENGTH:	5.00 FT	CASING SIZE:	2.0 INCH																			
C - DEPTH TO TOP OF SAND:	14.00 FT	SLOT SIZE:	0.020 INCH																			
D - DEPTH BENTONITE SEAL:	12.00 FT																					
40																						
50																						

APPENDIX C

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



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

15 April 2011

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510
RE: Fidelity Roof

Enclosed are the results of analyses for samples received by the laboratory on 04/09/11 09:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez For John Shepler
Laboratory Director



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

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

Project: Fidelity Roof
Project Number: 224-01-03
Project Manager: Jim Gribi

Reported:
04/15/11 16:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GA-1-7.5	T110417-01	Soil	04/07/11 13:11	04/09/11 09:11
GA-1-11.5	T110417-02	Soil	04/07/11 13:19	04/09/11 09:11
GA-1-15.0	T110417-03	Soil	04/07/11 13:24	04/09/11 09:11
GA-1-18.0	T110417-04	Soil	04/07/11 13:52	04/09/11 09:11
GA-1-27.0	T110417-05	Soil	04/07/11 14:10	04/09/11 09:11
GA-1-29.5	T110417-06	Soil	04/07/11 14:20	04/09/11 09:11
GA-1-W	T110417-07	Water	04/07/11 18:20	04/09/11 09:11
GA-2-7.5	T110417-08	Soil	04/07/11 15:05	04/09/11 09:11
GA-2-17.0	T110417-09	Soil	04/07/11 15:35	04/09/11 09:11
GA-2-W16-22	T110417-10	Water	04/07/11 16:10	04/09/11 09:11
GA-2-27.0	T110417-11	Soil	04/07/11 16:50	04/09/11 09:11
GA-2-W28-30	T110417-12	Water	04/07/11 17:00	04/09/11 09:11
GA-3-7.5	T110417-13	Soil	04/07/11 17:35	04/09/11 09:11
GA-3-15.0	T110417-14	Soil	04/07/11 17:45	04/09/11 09:11
GA-7-7.5	T110417-15	Soil	04/07/11 08:50	04/09/11 09:11
GA-7-11.0	T110417-16	Soil	04/07/11 08:55	04/09/11 09:11
GA-7-15.5	T110417-17	Soil	04/07/11 09:00	04/09/11 09:11
GA-7-19.5	T110417-18	Soil	04/07/11 09:05	04/09/11 09:11

SunStar Laboratories, Inc.

Daniel Chavez For John Shepler, Laboratory Director

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



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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:18

GA-1-7.5
T110417-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"	"
m,p-Xylene	ND	5.0	"	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	"
Di-isopropyl ether	ND	20	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	"
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	"
Surrogate: Toluene-d8		92.2 %	85.5-116	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		97.5 %	75.1-121	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		121 %	90-135	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:18

GA-1-11.5
T110417-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"	"
m,p-Xylene	ND	5.0	"	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	"
Di-isopropyl ether	ND	20	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	"
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	"
Surrogate: Toluene-d8		94.6 %	85.5-116	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		98.0 %	75.1-121	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		67.5 %	90-135	"	"	"	"	"	S-GC

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Daniel Chavez For John Shepler, Laboratory Director



25712 Commercentre Drive
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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:18

GA-1-15.0
T110417-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	23	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	97.9 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	111 %	90-135	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:18

GA-1-18.0
T110417-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	21	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	93.0 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	133 %	90-135	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi Reported:
 04/15/11 16:18

GA-1-27.0
T110417-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	92.2 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	138 %	90-135	"	"	"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi Reported:
 04/15/11 16:18

GA-1-29.5
T110417-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	93.5 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	122 %	90-135	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



25712 Commercentre Drive
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 949.297.5027 Fax

Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:18

GA-1-W
T110417-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	1041109	04/11/11	04/11/11	EPA 8260B	
Toluene	1.8	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	2.2	1.0	"	"	"	"	"	"	
o-Xylene	1.0	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	26	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		100 %	84.7-109	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %	83.5-119	"	"	"	"	"	
Surrogate: Dibromofluoromethane		93.4 %	81.1-136	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



25712 Commercentre Drive
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 949.297.5027 Fax

Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:18

GA-2-7.5
T110417-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.2 %	85.5-116	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	75.1-121	"	"	"	"	"	
Surrogate: Dibromofluoromethane		136 %	90-135	"	"	"	"	"	S-GC

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 For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:18

GA-2-17.0
T110417-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	220	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	90.2 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	141 %	90-135	"	"	"	"	"	"	S-GC

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Daniel Chavez For John Shepler, Laboratory Director



25712 Commercentre Drive
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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:18

GA-2-W16-22
T110417-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	1041109	04/11/11	04/11/11	EPA 8260B	
Toluene	2.4	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	2.3	1.0	"	"	"	"	"	"	
o-Xylene	0.98	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1600	50	"	50	"	"	04/12/11	"	
C6-C12 (GRO)	250	50	"	1	"	"	04/11/11	"	
Surrogate: Toluene-d8	99.5 %	84.7-109	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	83.5-119	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	97.1 %	81.1-136	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:18

GA-2-27.0
T110417-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/14/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	45	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	91.0 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	134 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:18

GA-2-W28-30
T110417-12 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.4	0.50	ug/l	1	1041109	04/11/11	04/11/11	EPA 8260B	
Toluene	3.7	0.50	"	"	"	"	"	"	
Ethylbenzene	0.64	0.50	"	"	"	"	"	"	
m,p-Xylene	4.0	1.0	"	"	"	"	"	"	
o-Xylene	2.3	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1600	50	"	50	"	"	04/12/11	"	
C6-C12 (GRO)	250	50	"	1	"	"	04/11/11	"	
Surrogate: Toluene-d8	102 %	84.7-109	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	83.5-119	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	94.2 %	81.1-136	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:18

GA-3-7.5
T110417-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/14/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	93.1 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	129 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:18

GA-3-15.0
T110417-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041115	04/11/11	04/14/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	93.6 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	128 %	90-135	"	"	"	"	"	"	

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 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:18

GA-7-7.5
T110417-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	106 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.0 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	101 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:18

GA-7-11.0
T110417-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	103 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	99.5 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:18

**GA-7-15.5
 T110417-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	104 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.1 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	101 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:18

**GA-7-19.5
 T110417-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	102 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.2 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	101 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi Reported:
04/15/11 16:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
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Batch 1041109 - EPA 5030 GCMS

Blank (1041109-BLK1) Prepared & Analyzed: 04/11/11									
Benzene	ND	0.50	ug/l						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
m,p-Xylene	ND	1.0	"						
o-Xylene	ND	0.50	"						
Tert-amyl methyl ether	ND	2.0	"						
Tert-butyl alcohol	ND	10	"						
Di-isopropyl ether	ND	2.0	"						
Ethyl tert-butyl ether	ND	2.0	"						
Methyl tert-butyl ether	ND	1.0	"						
C6-C12 (GRO)	ND	50	"						
Surrogate: Toluene-d8	7.92		"	8.00	99.0	84.7-109			
Surrogate: 4-Bromofluorobenzene	7.86		"	8.00	98.2	83.5-119			
Surrogate: Dibromofluoromethane	7.85		"	8.00	98.1	81.1-136			

LCS (1041109-BS1) Prepared & Analyzed: 04/11/11									
Benzene	19.8	0.50	ug/l	20.0	98.8	75-125			
Toluene	19.0	0.50	"	20.0	94.9	75-125			
Surrogate: Toluene-d8	7.67		"	8.00	95.9	84.7-109			
Surrogate: 4-Bromofluorobenzene	7.90		"	8.00	98.8	83.5-119			
Surrogate: Dibromofluoromethane	7.96		"	8.00	99.5	81.1-136			

LCS Dup (1041109-BS1) Prepared & Analyzed: 04/11/11									
Benzene	18.7	0.50	ug/l	20.0	93.7	75-125	5.30	20	
Toluene	18.6	0.50	"	20.0	92.8	75-125	2.18	20	
Surrogate: Toluene-d8	7.80		"	8.00	97.5	84.7-109			
Surrogate: 4-Bromofluorobenzene	7.44		"	8.00	93.0	83.5-119			
Surrogate: Dibromofluoromethane	7.89		"	8.00	98.6	81.1-136			

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi Reported:
04/15/11 16:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
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Batch 1041115 - EPA 5030 GCMS

Blank (1041115-BLK1) Prepared: 04/11/11 Analyzed: 04/13/11									
Benzene	ND	5.0	ug/kg						
Toluene	ND	5.0	"						
Ethylbenzene	ND	5.0	"						
m,p-Xylene	ND	5.0	"						
o-Xylene	ND	5.0	"						
Tert-amyl methyl ether	ND	20	"						
Tert-butyl alcohol	ND	50	"						
Di-isopropyl ether	ND	20	"						
Ethyl tert-butyl ether	ND	20	"						
Methyl tert-butyl ether	ND	20	"						
C6-C12 (GRO)	ND	500	"						
Surrogate: Toluene-d8	37.3		"	40.0	93.2	85.5-116			
Surrogate: 4-Bromofluorobenzene	38.5		"	40.0	96.2	75.1-121			
Surrogate: Dibromofluoromethane	47.6		"	40.0	119	90-135			

LCS (1041115-BS1) Prepared: 04/11/11 Analyzed: 04/14/11									
Benzene	92.3	5.0	ug/kg	100	92.3	75-125			
Toluene	93.7	5.0	"	100	93.7	75-125			
Surrogate: Toluene-d8	40.2		"	40.0	100	85.5-116			
Surrogate: 4-Bromofluorobenzene	40.5		"	40.0	101	75.1-121			
Surrogate: Dibromofluoromethane	39.2		"	40.0	98.0	90-135			

LCS Dup (1041115-BS1) Prepared: 04/11/11 Analyzed: 04/14/11									
Benzene	87.3	5.0	ug/kg	100	87.3	75-125	5.57	20	
Toluene	91.4	5.0	"	100	91.4	75-125	2.49	20	
Surrogate: Toluene-d8	40.7		"	40.0	102	85.5-116			
Surrogate: 4-Bromofluorobenzene	41.9		"	40.0	105	75.1-121			
Surrogate: Dibromofluoromethane	40.8		"	40.0	102	90-135			

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi Reported:
04/15/11 16:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1041212 - EPA 5030 GCMS

Blank (1041212-BLK1) Prepared: 04/12/11 Analyzed: 04/13/11

Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
C6-C12 (GRO)	ND	500	"							
Surrogate: Toluene-d8	41.2		"	40.0		103	85.5-116			
Surrogate: 4-Bromofluorobenzene	38.1		"	40.0		95.2	75.1-121			
Surrogate: Dibromofluoromethane	39.0		"	40.0		97.4	90-135			

LCS (1041212-BS1) Prepared: 04/12/11 Analyzed: 04/13/11

Benzene	107	5.0	ug/kg	100		107	75-125			
Toluene	109	5.0	"	100		109	75-125			
Surrogate: Toluene-d8	40.6		"	40.0		102	85.5-116			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.5	75.1-121			
Surrogate: Dibromofluoromethane	36.4		"	40.0		91.0	90-135			

Matrix Spike (1041212-MS1) Source: T110417-15 Prepared: 04/12/11 Analyzed: 04/13/11

Benzene	101	5.0	ug/kg	100	ND	101	75-125			
Toluene	105	5.0	"	100	ND	105	75-125			
Surrogate: Toluene-d8	40.4		"	40.0		101	85.5-116			
Surrogate: 4-Bromofluorobenzene	39.0		"	40.0		97.5	75.1-121			
Surrogate: Dibromofluoromethane	36.4		"	40.0		90.9	90-135			

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 For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi Reported:
04/15/11 16:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1041212 - EPA 5030 GCMS

Matrix Spike Dup (1041212-MSD1) Source: T110417-15 Prepared: 04/12/11 Analyzed: 04/13/11

Benzene	105	5.0	ug/kg	100	ND	105	75-125	4.14	20	
Toluene	107	5.0	"	100	ND	107	75-125	1.27	20	
Surrogate: Toluene-d8	40.2		"	40.0		101	85.5-116			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.6	75.1-121			
Surrogate: Dibromofluoromethane	36.8		"	40.0		91.9	90-135			

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director

SAMPLE RECEIVING REVIEW SHEET

BATCH # T110417

Client Name: GRUB

Project: FIDELITY ROOF CO

Received by: Brian

Date/Time Received: 4/9/11 9:11

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 4.3 °C +/- the CF (-0.2°C) = 4.1 °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 4/9/11

Comments:

Chain of Custody Record

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

Client: Grub Associates
Address: _____
Phone: _____ Fax: _____
Project Manager: J Grub

Date: 4/7/11
Project Name: FIDELITY ROOF CO
Collector: J Grub
Batch # T110417
EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only → T110417	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers
MW-7-7.5	4/7/11	08:50	Seal	Seal										15		
MW-7-11.0		08:55												16		
MW-7-15.5		09:00												17		
MW-7-18.5		09:05												18		
Relinquished by: (signature) _____ Date / Time <u>4/11/11 09:30</u> Relinquished by: (signature) _____ Date / Time _____ Relinquished by: (signature) _____ Date / Time <u>4/11/11 17:20</u> Received by: (signature) _____ Date / Time _____ Received by: (signature) _____ Date / Time <u>4/11/11 17:20</u> Total # of containers: <u>4</u> Chain of Custody seals Y/N/N/A: <u>Y</u> Seals intact? Y/N/N/A: <u>Y</u> Received good condition/cold: <u>Y</u>																



25712 Commercentre Drive
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15 April 2011

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510
RE: Fidelity Roof

Enclosed are the results of analyses for samples received by the laboratory on 04/12/11 10:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez For John Shepler
Laboratory Director



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

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

Project: Fidelity Roof
Project Number: 224-01-03
Project Manager: Jim Gribi

Reported:
04/15/11 16:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GA-3-W-15-20	T110420-01	Water	04/08/11 07:55	04/12/11 10:25
GA-3-23.5	T110420-02	Soil	04/08/11 08:25	04/12/11 10:25
GA-3-26.0	T110420-03	Soil	04/08/11 08:35	04/12/11 10:25
GA-3-29.5	T110420-04	Soil	04/08/11 08:45	04/12/11 10:25
GA-3-34.5	T110420-05	Soil	04/08/11 13:20	04/12/11 10:25
GA-3-39.5	T110420-06	Soil	04/08/11 13:35	04/12/11 10:25
GA-3-W-30-40	T110420-07	Water	04/08/11 17:25	04/12/11 10:25
GA-4-19.5	T110420-08	Soil	04/08/11 10:35	04/12/11 10:25
GA-4-21.0	T110420-09	Soil	04/08/11 10:50	04/12/11 10:25
GA-4-23.5	T110420-10	Soil	04/08/11 10:55	04/12/11 10:25
GA-4-W-20-24	T110420-11	Water	04/08/11 12:30	04/12/11 10:25
GA-5-W-25-30	T110420-12	Water	04/08/11 13:00	04/12/11 10:25
GA-6-19.0	T110420-13	Soil	04/08/11 14:20	04/12/11 10:25
GA-6-22.0	T110420-14	Soil	04/08/11 14:35	04/12/11 10:25
GA-6-27.0	T110420-15	Soil	04/08/11 14:45	04/12/11 10:25
GA-6-W	T110420-16	Water	04/08/11 16:10	04/12/11 10:25
GA-7-17.5	T110420-17	Soil	04/08/11 15:32	04/12/11 10:25
GA-7-22.0	T110420-18	Soil	04/08/11 15:37	04/12/11 10:25
GA-7-W	T110420-19	Water	04/08/11 16:20	04/12/11 10:25
GA-8-16.5	T110420-20	Soil	04/08/11 16:50	04/12/11 10:25
GA-8-22.0	T110420-21	Soil	04/08/11 16:57	04/12/11 10:25
GA-8-27.5	T110420-22	Soil	04/08/11 17:06	04/12/11 10:25

SunStar Laboratories, Inc.

Daniel Chavez For John Shepler, Laboratory Director

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Lake Forest, California 92630
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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:53

GA-3-W-15-20
T110420-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	1041206	04/12/11	04/14/11	EPA 8260B	
Toluene	3.1	0.50	"	"	"	"	"	"	"
Ethylbenzene	0.65	0.50	"	"	"	"	"	"	"
m,p-Xylene	2.6	1.0	"	"	"	"	"	"	"
o-Xylene	1.3	0.50	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	3.4	1.0	"	"	"	"	"	"	"
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	"
Surrogate: Toluene-d8		96.2 %	84.7-109	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		104 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		94.5 %	81.1-136	"	"	"	"	"	"

SunStar Laboratories, Inc.

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

Daniel Chavez For John Shepler, Laboratory Director



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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:53

GA-3-23.5
T110420-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"	"
m,p-Xylene	ND	5.0	"	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	"
Di-isopropyl ether	ND	20	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	"
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	"
Surrogate: Toluene-d8		104 %	85.5-116	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		94.8 %	75.1-121	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		105 %	90-135	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-3-26.0
T110420-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	105 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	101 %	90-135	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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 Lake Forest, California 92630
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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-3-29.5
T110420-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	103 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.4 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	104 %	90-135	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-3-34.5
T110420-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	103 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	106 %	90-135	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-3-39.5
T110420-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	106 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	106 %	90-135	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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949.297.5027 Fax

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:53

GA-3-W-30-40
T110420-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	1041206	04/12/11	04/14/11	EPA 8260B	
Toluene	0.61	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1.1	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8	96.5 %	84.7-109	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	83.5-119	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	97.9 %	81.1-136	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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949.297.5027 Fax

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:53

GA-4-19.5
T110420-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	130	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	72	5.0	"	"	"	"	"	"	
m,p-Xylene	46	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	2500	50	"	"	"	"	04/14/11	"	
Di-isopropyl ether	ND	20	"	"	"	"	04/13/11	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	890	500	"	25	"	"	04/14/11	"	
C6-C12 (GRO)	7900	500	"	1	"	"	04/13/11	"	
Surrogate: Toluene-d8	106 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.5 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	100 %	90-135	"	"	"	"	"	"	

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Daniel Chavez For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:53

GA-4-21.0
T110420-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		104 %	85.5-116	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	75.1-121	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.9 %	90-135	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:53

GA-4-23.5
T110420-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	53	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	79	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		103 %	85.5-116	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	75.1-121	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	90-135	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-4-W-20-24
T110420-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	100	0.50	ug/l	1	1041206	04/12/11	04/14/11	EPA 8260B	
Toluene	2.9	0.50	"	"	"	"	"	"	
Ethylbenzene	15	0.50	"	"	"	"	"	"	
m,p-Xylene	11	1.0	"	"	"	"	"	"	
o-Xylene	2.2	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	350	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1000	50	"	50	"	"	04/14/11	"	
C6-C12 (GRO)	260	50	"	1	"	"	04/14/11	"	
Surrogate: Toluene-d8		101 %		84.7-109	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		83.5-119	"	"	"	"	
Surrogate: Dibromofluoromethane		99.1 %		81.1-136	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-5-W-25-30
T110420-12 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	7.7	1.4	ug/l	1	1041206	04/12/11	04/14/11	EPA 8260B	
Toluene	ND	1.4	"	"	"	"	"	"	
Ethylbenzene	2.2	1.4	"	"	"	"	"	"	
m,p-Xylene	ND	2.8	"	"	"	"	"	"	
o-Xylene	ND	1.4	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.6	"	"	"	"	"	"	
Tert-butyl alcohol	ND	28	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.6	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.6	"	"	"	"	"	"	
Methyl tert-butyl ether	31	2.8	"	"	"	"	"	"	
C6-C12 (GRO)	ND	140	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.4 %		84.7-109	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		83.5-119	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %		81.1-136	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:53

GA-6-19.0
T110420-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	103 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	102 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
04/15/11 16:53

GA-6-22.0
T110420-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	104 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.8 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	103 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-6-27.0
T110420-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	104 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.2 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	108 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-6-W
T110420-16 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.50	ug/l	1	1041206	04/12/11	04/14/11	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	4.6	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8	98.1 %	84.7-109	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	83.5-119	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	96.5 %	81.1-136	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-7-17.5
T110420-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	106 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	105 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-7-22.0
T110420-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	104 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	110 %	90-135	"	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-7-W
T110420-19 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	1041206	04/12/11	04/14/11	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.8 %	84.7-109	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	83.5-119	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.5 %	81.1-136	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-8-16.5
T110420-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		105 %	85.5-116	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	75.1-121	"	"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	90-135	"	"	"	"	"	

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Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-8-22.0
T110420-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	103 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	106 %	90-135	"	"	"	"	"	"	

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 For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 04/15/11 16:53

GA-8-27.5
T110420-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	1041212	04/12/11	04/13/11	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8	104 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %	75.1-121	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	106 %	90-135	"	"	"	"	"	"	

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 For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi Reported:
04/15/11 16:53

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
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Batch 1041206 - EPA 5030 GCMS

Blank (1041206-BLK1) Prepared: 04/12/11 Analyzed: 04/14/11

Benzene	ND	0.50	ug/l						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
m,p-Xylene	ND	1.0	"						
o-Xylene	ND	0.50	"						
Tert-amyl methyl ether	ND	2.0	"						
Tert-butyl alcohol	ND	10	"						
Di-isopropyl ether	ND	2.0	"						
Ethyl tert-butyl ether	ND	2.0	"						
Methyl tert-butyl ether	ND	1.0	"						
C6-C12 (GRO)	ND	50	"						
Surrogate: Toluene-d8	7.85		"	8.00	98.1	84.7-109			
Surrogate: 4-Bromofluorobenzene	8.20		"	8.00	102	83.5-119			
Surrogate: Dibromofluoromethane	7.39		"	8.00	92.4	81.1-136			

LCS (1041206-BS1) Prepared: 04/12/11 Analyzed: 04/14/11

Benzene	19.5	0.50	ug/l	20.0	97.6	75-125			
Toluene	18.7	0.50	"	20.0	93.7	75-125			
Surrogate: Toluene-d8	7.96		"	8.00	99.5	84.7-109			
Surrogate: 4-Bromofluorobenzene	8.20		"	8.00	102	83.5-119			
Surrogate: Dibromofluoromethane	7.29		"	8.00	91.1	81.1-136			

LCS Dup (1041206-BS1) Prepared: 04/12/11 Analyzed: 04/14/11

Benzene	19.1	0.50	ug/l	20.0	95.6	75-125	2.07	20	
Toluene	19.1	0.50	"	20.0	95.7	75-125	2.11	20	
Surrogate: Toluene-d8	7.87		"	8.00	98.4	84.7-109			
Surrogate: 4-Bromofluorobenzene	8.08		"	8.00	101	83.5-119			
Surrogate: Dibromofluoromethane	7.72		"	8.00	96.5	81.1-136			

SunStar Laboratories, Inc.

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

Daniel Chavez For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi Reported:
04/15/11 16:53

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
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Batch 1041212 - EPA 5030 GCMS

Blank (1041212-BLK1) Prepared: 04/12/11 Analyzed: 04/13/11

Benzene	ND	5.0	ug/kg						
Toluene	ND	5.0	"						
Ethylbenzene	ND	5.0	"						
m,p-Xylene	ND	5.0	"						
o-Xylene	ND	5.0	"						
Tert-amyl methyl ether	ND	20	"						
Tert-butyl alcohol	ND	50	"						
Di-isopropyl ether	ND	20	"						
Ethyl tert-butyl ether	ND	20	"						
Methyl tert-butyl ether	ND	20	"						
C6-C12 (GRO)	ND	500	"						
Surrogate: Toluene-d8	41.2		"	40.0	103	85.5-116			
Surrogate: 4-Bromofluorobenzene	38.1		"	40.0	95.2	75.1-121			
Surrogate: Dibromofluoromethane	39.0		"	40.0	97.4	90-135			

LCS (1041212-BS1) Prepared: 04/12/11 Analyzed: 04/13/11

Benzene	107	5.0	ug/kg	100	107	75-125			
Toluene	109	5.0	"	100	109	75-125			
Surrogate: Toluene-d8	40.6		"	40.0	102	85.5-116			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0	99.5	75.1-121			
Surrogate: Dibromofluoromethane	36.4		"	40.0	91.0	90-135			

Matrix Spike (1041212-MS1) Source: T110417-15 Prepared: 04/12/11 Analyzed: 04/13/11

Benzene	101	5.0	ug/kg	100	ND	101	75-125		
Toluene	105	5.0	"	100	ND	105	75-125		
Surrogate: Toluene-d8	40.4		"	40.0	101	85.5-116			
Surrogate: 4-Bromofluorobenzene	39.0		"	40.0	97.5	75.1-121			
Surrogate: Dibromofluoromethane	36.4		"	40.0	90.9	90-135			

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 For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi Reported:
04/15/11 16:53

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
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Batch 1041212 - EPA 5030 GCMS

Matrix Spike Dup (1041212-MSD1)	Source: T110417-15	Prepared: 04/12/11	Analyzed: 04/13/11
Benzene	105	5.0 ug/kg	100 ND
Toluene	107	5.0 "	100 ND
Surrogate: Toluene-d8	40.2	"	40.0 101 85.5-116
Surrogate: 4-Bromofluorobenzene	39.8	"	40.0 99.6 75.1-121
Surrogate: Dibromofluoromethane	36.8	"	40.0 91.9 90-135

SunStar Laboratories, Inc.

Daniel Chavez For John Shepler, Laboratory Director

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.



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi Reported:
04/15/11 16:53

Notes and Definitions

- 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.

Daniel Chavez For John Shepler, Laboratory Director

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.

Chain of Custody Record

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

Date: _____ Page: 2 Of 2
Project Name: Fidelity Roof Co
Collector: J Gribi Client Project #: _____
Batch #: T110920 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 + OXY	8260 BTEX, OXY only +TPHG	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers
GA-6-6	4/9/11	1610	U	4 VoAS	X	X	X	X	X	X	X	X	16		
GA-7-17.5		1532	S	Sleeve	X	X	X	X	X	X	X	X	17		
GA-7-22.0		1537	S		X	X	X	X	X	X	X	X	18		
GA-7-4		1620	S	4 VoAS	X	X	X	X	X	X	X	X	19		
GA-8-16.5		1650	S	Sleeve	X	X	X	X	X	X	X	X	20		
GA-8-22.0		1657	S	"	X	X	X	X	X	X	X	X	21		
GA-8-27.5		1706	S	"	X	X	X	X	X	X	X	X	22		
													23		

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Total # of containers	36	Notes STD. TAT 4/12/11 BC
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA	Y	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA	Y	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Received good condition/cold	5.2	
Sample disposal Instructions: Disposal @ \$2.00 each				Turn around time:		

COC 90930

Chain of Custody Record

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

Date: _____ Page: 1 Of 2
Project Name: Fidelity Roof Co
Collector: J Gribi Client Project #: _____
Batch #: T110420 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 + OXY	8260 BTEX, OXY only +TPHG	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers
GA-3-6-15-20	4/9/11	0755	W	4 VoAS	X	X	X	X	X	X	X	X	01		
GA-3-23.5		0825	S	sleeve	X	X	X	X	X	X	X	X	02		
GA-3-26.0		0835	S		X	X	X	X	X	X	X	X	03		
GA-3-29.5		0845	S		X	X	X	X	X	X	X	X	04		
GA-3-34.5		1320	S		X	X	X	X	X	X	X	X	05		
GA-3-39.5		1335	S		X	X	X	X	X	X	X	X	06		
GA-3-43.0-40		1725	W	4 VoAS	X	X	X	X	X	X	X	X	07		
GA-4-19.5		1035	S	sleeve	X	X	X	X	X	X	X	X	08		
GA-4-21.0		1050	S		X	X	X	X	X	X	X	X	09		
GA-4-22.5		1055	S		X	X	X	X	X	X	X	X	10		
GA-4-6-20-24		1230	W	2 VoAS	X	X	X	X	X	X	X	X	11		
GA-5-17.5-30		1500	W	2 VoA	X	X	X	X	X	X	X	X	12		
GA-6-19.0		1420	S	sleeve	X	X	X	X	X	X	X	X	13		
GA-6-22.0		1435	S		X	X	X	X	X	X	X	X	14		
GA-6-27.0		1445	S		X	X	X	X	X	X	X	X	15		

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Total # of containers	36	Notes STD. TAT 4/12/11 BC
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA	Y	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA	Y	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Received good condition/cold	5.2	
Sample disposal Instructions: Disposal @ \$2.00 each				Turn around time:		

COC 90911

SAMPLE RECEIVING REVIEW SHEET

BATCH # T110420

Client Name: GRIBI Project: FIDELITY ROOF CO

Received by: BRIAN Date/Time Received: 4/12/11 10:25

Delivered by: Client SunStar Courier GSO FedEx Other _____

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

Temperature: cooler #1 5.7 °C +/- the CF (-0.2°C) = 5.2 °C corrected temperature

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

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

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

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

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date BC 4/12/11

Comments:



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

18 April 2011

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510
RE: Fidelity Roof

Enclosed are the results of analyses for samples received by the laboratory on 04/13/11 10:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez For John Shepler
Laboratory Director



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

Gribi Associates	Project: Fidelity Roof	Reported:
1090 Adam Street, Suite K	Project Number: 224-01-03	04/18/11 09:47
Benicia CA, 94510	Project Manager: Jim Gribi	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GA-8-W	T110439-01	Water	04/11/11 07:10	04/13/11 10:20



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

Gribi Associates	Project: Fidelity Roof	Reported:
1090 Adam Street, Suite K	Project Number: 224-01-03	04/18/11 09:47
Benicia CA, 94510	Project Manager: Jim Gribi	

**GA-8-W
 T110439-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	1041307	04/13/11	04/14/11	EPA 8260B
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
C6-C12 (GRO)	ND	50	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		105 %	77.1-110	"	"	"	"	"
Surrogate: Dibromofluoromethane		105 %	66.3-111	"	"	"	"	"
Surrogate: Toluene-d8		98.5 %	84.7-109	"	"	"	"	"

SunStar Laboratories, Inc.

Daniel Chavez For John Shepler, Laboratory Director

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.

Daniel Chavez For John Shepler, Laboratory Director

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.



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi Reported:
04/18/11 09:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch 1041307 - EPA 5030 GCMS

Blank (1041307-BLK1) Prepared: 04/13/11 Analyzed: 04/14/11

Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
C6-C12 (GRO)	ND	50	"							
Surrogate: 4-Bromofluorobenzene	8.56		"	8.00	107	77.1-110				
Surrogate: Dibromofluoromethane	8.11		"	8.00	101	66.3-111				
Surrogate: Toluene-d8	7.90		"	8.00	98.8	84.7-109				

LCS (1041307-BS1) Prepared: 04/13/11 Analyzed: 04/14/11

Benzene	18.4	0.50	ug/l	20.0	92.0	75-125				
Toluene	16.6	0.50	"	20.0	82.8	75-125				
Surrogate: 4-Bromofluorobenzene	8.42		"	8.00	105	77.1-110				
Surrogate: Dibromofluoromethane	7.89		"	8.00	98.6	66.3-111				
Surrogate: Toluene-d8	7.88		"	8.00	98.5	84.7-109				

LCS Dup (1041307-BSD1) Prepared: 04/13/11 Analyzed: 04/14/11

Benzene	17.9	0.50	ug/l	20.0	89.6	75-125	2.64	20		
Toluene	16.1	0.50	"	20.0	80.6	75-125	2.82	20		
Surrogate: 4-Bromofluorobenzene	8.40		"	8.00	105	77.1-110				
Surrogate: Dibromofluoromethane	8.10		"	8.00	101	66.3-111				
Surrogate: Toluene-d8	8.23		"	8.00	103	84.7-109				

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 For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi Reported:
04/18/11 09:47

Notes and Definitions

- 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.

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 For John Shepler, Laboratory Director



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

13 May 2011

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510
RE: Fidelity Roof

Enclosed are the results of analyses for samples received by the laboratory on 05/06/11 10:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez For John Shepler
Laboratory Director



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

Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Project: Fidelity Roof Project Number: 224-01-03 Project Manager: Jim Gribi	Reported: 05/13/11 17:35
--	---	------------------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VS-1	T110581-01	Air	05/05/11 11:22	05/06/11 10:15
VS-2	T110581-02	Air	05/05/11 12:10	05/06/11 10:15
VS-3	T110581-03	Air	05/05/11 12:40	05/06/11 10:15

SunStar Laboratories, Inc.

Daniel Chavez For John Shepler, Laboratory Director

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.



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
05/13/11 17:35

VS-1
T110581-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15									
Benzene	7.5	3.3	ug/m ³ Air	3.4	1050608	05/06/11	05/12/11	TO-15	
Toluene	15	3.8	"	"	"	"	"	"	"
Ethylbenzene	8.0	4.4	"	"	"	"	"	"	"
m,p-Xylene	20	8.8	"	"	"	"	"	"	"
o-Xylene	8.0	4.4	"	"	"	"	"	"	"
1,1-Difluoroethane (Freon 152)	27000	27	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		102 %	40-160	"	"	"	"	"	"

Methane by GC									
Methane	ND	5.0	ppm(v)	1	1050607	05/06/11	05/10/11	8015M	

Fixed Gases ASTM D1946-90									
Carbon Dioxide	3.41	0.10	%	1	1050606	05/06/11	05/10/11	GC	
Oxygen	19.9	0.10	"	"	"	"	"	"	"
Nitrogen	80.9	0.10	"	"	"	"	"	"	"

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 For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
05/13/11 17:35

VS-2
T110581-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15									
Benzene	6.9	3.3	ug/m ³ Air	3.2	1050608	05/06/11	05/12/11	TO-15	
Toluene	19	3.8	"	"	"	"	"	"	"
Ethylbenzene	7.1	4.4	"	"	"	"	"	"	"
m,p-Xylene	17	8.8	"	"	"	"	"	"	"
o-Xylene	6.9	4.4	"	"	"	"	"	"	"
1,1-Difluoroethane (Freon 152)	26000	27	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		100 %	40-160	"	"	"	"	"	"

Methane by GC									
Methane	ND	5.0	ppm(v)	1	1050607	05/06/11	05/10/11	8015M	

Fixed Gases ASTM D1946-90									
Carbon Dioxide	3.30	0.10	%	1	1050606	05/06/11	05/10/11	GC	
Oxygen	19.0	0.10	"	"	"	"	"	"	"
Nitrogen	79.2	0.10	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi Reported:
 05/13/11 17:35

VS-3
T110581-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Benzene	9.6	3.3	ug/m ³ Air	3.2	1050608	05/06/11	05/12/11	TO-15	
Toluene	20	3.8	"	"	"	"	"	"	
Ethylbenzene	7.4	4.4	"	"	"	"	"	"	
m,p-Xylene	19	8.8	"	"	"	"	"	"	
o-Xylene	7.5	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (Freon 152)	28000	27	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 102% 40-160 " " " "

Methane by GC

Methane	ND	5.0	ppm(v)	1	1050607	05/06/11	05/10/11	8015M	
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Fixed Gases ASTM D1946-90

Carbon Dioxide	4.20	0.10	%	1	1050606	05/06/11	05/10/11	GC	
Oxygen	18.5	0.10	"	"	"	"	"	"	
Nitrogen	78.3	0.10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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

Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi Reported:
 05/13/11 17:35

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1050608 - General Prep VOC-MS

Blank (1050608-BLK1) Prepared: 05/06/11 Analyzed: 05/12/11

Benzene	ND	3.3	ug/m ³ Air						
Toluene	ND	3.8	"						
Ethylbenzene	ND	4.4	"						
m,p-Xylene	ND	8.8	"						
o-Xylene	ND	4.4	"						
1,1-Difluoroethane (Freon 152)	ND	27	"						

Surrogate: 4-Bromofluorobenzene 44.8 " 45.3 99.0 40-160

Duplicate (1050608-DUP1)

Source: T110581-01 Prepared: 05/06/11 Analyzed: 05/12/11

Benzene	7.29	3.3	ug/m ³ Air		7.52			2.99	30
Toluene	14.3	3.8	"		14.9			3.57	30
Ethylbenzene	7.21	4.4	"		7.96			9.90	30
m,p-Xylene	19.2	8.8	"		19.5			1.55	30
o-Xylene	7.51	4.4	"		7.96			5.83	30
1,1-Difluoroethane (Freon 152)	26900	27	"		27100			0.966	200

Surrogate: 4-Bromofluorobenzene 46.4 " 45.3 103 40-160

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 For John Shepler, Laboratory Director



25712 Commercentre Drive
Lake Forest, California 92630
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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
05/13/11 17:35

Methane by GC - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1050607 - General Prep VOC-GC

Blank (1050607-BLK1)		Prepared: 05/06/11 Analyzed: 05/10/11	
Methane	ND	5.0	ppm(v)
Duplicate (1050607-DUP1)		Source: T110581-01 Prepared: 05/06/11 Analyzed: 05/10/11	
Methane	ND	5.0	ppm(v)
			0.00
			20

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director



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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: 224-01-03
Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
05/13/11 17:35

Fixed Gases ASTM D1946-90 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1050606 - General Prep VOC-GC

Blank (1050606-BLK1)		Prepared: 05/06/11 Analyzed: 05/10/11	
Carbon Dioxide	ND	0.10	%
Oxygen	ND	0.10	"
Nitrogen	ND	0.10	"
Duplicate (1050606-DUP1)		Source: T110581-01 Prepared: 05/06/11 Analyzed: 05/10/11	
Carbon Dioxide	2.79	0.10	%
Oxygen	17.6	0.10	"
Nitrogen	71.0	0.10	"
			3.41
			19.9
			80.9
			20.0
			12.4
			13.0
			20
			20

SunStar Laboratories, Inc.

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Daniel Chavez For John Shepler, Laboratory Director

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

Chain of Custody Record

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

Date: 5/5/11 Page: 1 of 1
 Project Name: Fidelity Roof Company
 Collector: J Gribi Client Project #: _____
 Batch #: 11058 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/representative	Total # of containers
V5-1	5/5/11	1122	Vapor	8260	X	X	X	X	X	X	X	X	01	0413 30 INITIAL 5 Final	6
V5-2	"	1240	Vapor	8260 + OXY	X	X	X	X	X	X	X	X	02	0635 30 INITIAL 5 Final	N/A
V5-3	"	1240	Vapor	8270	X	X	X	X	X	X	X	X	03	0641 30 INITIAL 5 Final	N/A
Total # of containers: <u>6</u> Chain of Custody seals VINNA: <u>N/A</u> Seals intact? VINNA: <u>N/A</u> Received good condition/cold: <u>20-0</u>													Laboratory ID # _____ Comments/representative: <u>STC INIT</u> Total # of containers: _____		

COC 91937

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

Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi

Reported: 05/13/11 17:35

Notes and Definitions

- 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.

Daniel Chavez

Daniel Chavez For John Shepler, Laboratory Director

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.



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

21 June 2011

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510
RE: Fidelity Roof

Enclosed are the results of analyses for samples received by the laboratory on 06/11/11 09:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

DRAFT REPORT
DATA SUBJECT TO CHANGE



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

Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Project: Fidelity Roof Project Number: 224-01-03 Project Manager: Jim Gribi	Reported: 06/21/11 14:50
--	---	-----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRAFT: VS-1	T110764-01	Air	06/10/11 10:16	06/11/11 09:25
DRAFT: VS-2	T110764-02	Air	06/10/11 10:43	06/11/11 09:25
DRAFT: VS-3	T110764-03	Air	06/10/11 11:07	06/11/11 09:25

DRAFT REPORT

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.

DRAFT REPORT, DATA SUBJECT TO CHANGE



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

Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 06/21/11 14:50

DRAFT: VS-1
T110764-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

DRAFT: TO-15

Isopropyl alcohol	ND	13	ug/m ³ Air	3.2	1061301	06/13/11	06/16/11	TO-15	
Benzene	ND	3.3	"	"	"	"	"	"	"
Toluene	14	3.8	"	"	"	"	"	"	"
Ethylbenzene	32	4.4	"	"	"	"	"	"	"
m,p-Xylene	170	8.8	"	"	"	"	"	"	"
o-Xylene	32	4.4	"	"	"	"	"	"	"
1,1-Difluoroethane (Freon 152)	34000	27	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	40-160	"	"	"	"	"	"

DRAFT REPORT

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.

DRAFT REPORT, DATA SUBJECT TO CHANGE



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

Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: 224-01-03
 Benicia CA, 94510 Project Manager: Jim Gribi **Reported:**
 06/21/11 14:50

DRAFT: VS-2
T110764-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

DRAFT: TO-15

Isopropyl alcohol	ND	13	ug/m ³ Air	3.2	1061301	06/13/11	06/16/11	TO-15	
Benzene	ND	3.3	"	"	"	"	"	"	"
Toluene	6.7	3.8	"	"	"	"	"	"	"
Ethylbenzene	10	4.4	"	"	"	"	"	"	"
m,p-Xylene	47	8.8	"	"	"	"	"	"	"
o-Xylene	10	4.4	"	"	"	"	"	"	"
1,1-Difluoroethane (Freon 152)	19000	27	"	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	40-160	"	"	"	"	"	"

DRAFT REPORT

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.

DRAFT REPORT, DATA SUBJECT TO CHANGE



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

Gribi Associates	Project: Fidelity Roof	Reported:
1090 Adam Street, Suite K	Project Number: 224-01-03	06/21/11 14:50
Benicia CA, 94510	Project Manager: Jim Gribi	

**DRAFT: VS-3
T110764-03 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

DRAFT: TO-15

Isopropyl alcohol	ND	13	ug/m ³ Air	3.2	1061301	06/13/11	06/16/11	TO-15	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	9.1	3.8	"	"	"	"	"	"	
Ethylbenzene	6.9	4.4	"	"	"	"	"	"	
m,p-Xylene	31	8.8	"	"	"	"	"	"	
o-Xylene	7.8	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (Freon 152)	22000	27	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.8 %</i>	<i>40-160</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

DRAFT REPORT

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.

DRAFT REPORT, DATA SUBJECT TO CHANGE



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

Gribi Associates	Project: Fidelity Roof	Reported:
1090 Adam Street, Suite K	Project Number: 224-01-03	06/21/11 14:50
Benicia CA, 94510	Project Manager: Jim Gribi	

**DRAFT: TO-15 - Quality Control
SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1061301 - General Prep VOC-MS

Blank (1061301-BLK1)		Prepared: 06/13/11		Analyzed: 06/16/11			
Isopropyl alcohol	ND	13	ug/m ³ Air				
Benzene	ND	3.3	"				
Toluene	ND	3.8	"				
Ethylbenzene	ND	4.4	"				
m,p-Xylene	ND	8.8	"				
o-Xylene	ND	4.4	"				
1,1-Difluoroethane (Freon 152)	ND	27	"				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.4</i>	<i>"</i>	<i>45.3</i>	<i>98.1</i>	<i>40-160</i>		
Duplicate (1061301-DUP1)		Source: T110764-01		Prepared: 06/13/11		Analyzed: 06/17/11	
Isopropyl alcohol	4.48	13	ug/m ³ Air	3.68	19.6	30	
Benzene	ND	3.3	"	ND		30	
Toluene	12.8	3.8	"	14.0	9.17	30	
Ethylbenzene	28.6	4.4	"	32.1	11.7	30	
m,p-Xylene	146	8.8	"	169	14.2	30	
o-Xylene	28.1	4.4	"	32.4	14.0	30	
1,1-Difluoroethane (Freon 152)	31600	27	"	34400	8.66	200	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>45.3</i>	<i>"</i>	<i>45.3</i>	<i>100</i>	<i>40-160</i>		

DRAFT REPORT

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.

DRAFT REPORT, DATA SUBJECT TO CHANGE



06 October 2011

Jim Gribi
 Gribi Associates
 1090 Adam Street, Suite K
 Benicia, CA 94510
 RE: Fidelity Roof

Enclosed are the results of analyses for samples received by the laboratory on 09/29/11 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
 Project Manager

Asset Check-In Receipt

SunStar Laboratories

Check-In Date: 6/11/2011

User Name: Charon, Brian

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0081	1000cc: 1000cc Summa	0081	Sunstar Labs, Tusin Air Lab	ATC-Alex	Alex Flores
0109	1000cc: 1000cc Summa	0109	Sunstar Labs, Tusin Air Lab	ATC-Alex	Alex Flores
0413	1000cc: 1000cc Summa	0413	Sunstar Labs, Tusin Air Lab	Gribi-Jim	Jim Gribi
0460	1000cc: 1000cc Summa		Sunstar Labs, Tusin Air Lab	Gribi-Jim	Jim Gribi
2026	Instant Sampler: Instant Sampler	2026	Sunstar Labs, Lake Forest Air Lab	ATC-Alex	Alex Flores
2034	Pressure Gauge: Pressure Gauge	2034	Sunstar Labs, Lake Forest Air Lab	ATC-Alex	Alex Flores
3025	Manifold: Manifold		Sunstar Labs, Lake Forest Air Lab	Gribi-Jim	Jim Gribi
635	1000cc: 1000cc Summa		Sunstar Labs, Tusin Air Lab	Gribi-Jim	Jim Gribi
658	1000cc: 1000cc Summa		Sunstar Labs, Tusin Air Lab	Gribi-Jim	Jim Gribi



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

Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: [none] Reported:
 Benicia CA, 94510 Project Manager: Jim Gribi 10/06/11 17:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG-1	T111372-01	Air	09/28/11 08:27	09/29/11 09:00
SG-2	T111372-02	Air	09/28/11 08:48	09/29/11 09:00
SHROUD	T111372-03	Air	09/28/11 09:21	09/29/11 09:00

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.



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

Gribi Associates Project: Fidelity Roof
 1090 Adam Street, Suite K Project Number: [none] Reported:
 Benicia CA, 94510 Project Manager: Jim Gribi 10/06/11 17:03

**SG-1
 T111372-01 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Isopropyl alcohol	1800	13	ug/m ³ Air	3.5	1092803	09/29/11	10/04/11	TO-15	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	26	3.8	"	"	"	"	"	"	
Ethylbenzene	6.3	4.4	"	"	"	"	"	"	
m,p-Xylene	28	8.8	"	"	"	"	"	"	
o-Xylene	9.7	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %	40-160	"	"	"	"	"	

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.



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

Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Project: Fidelity Roof Project Number: [none] Project Manager: Jim Gribi	Reported: 10/06/11 17:03
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SG-2
T111372-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15									TO-14
Isopropyl alcohol	1500	130	ug/m ³ Air	1.75	1092803	09/29/11	09/29/11	TO-15	
Benzene	ND	160	"	"	"	"	"	"	
Toluene	ND	190	"	"	"	"	"	"	
Ethylbenzene	ND	220	"	"	"	"	"	"	
m,p-Xylene	ND	220	"	"	"	"	"	"	
o-Xylene	ND	220	"	"	"	"	"	"	

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.



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

Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Project: Fidelity Roof Project Number: [none] Project Manager: Jim Gribi	Reported: 10/06/11 17:03
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SHROUD
T111372-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

TO-15									TO-14
Isopropyl alcohol	57000	130	ug/m ³ Air	1.57	1092803	09/29/11	09/29/11	TO-15	
Benzene	ND	160	"	"	"	"	"	"	
Toluene	ND	190	"	"	"	"	"	"	
Ethylbenzene	ND	220	"	"	"	"	"	"	
m,p-Xylene	ND	220	"	"	"	"	"	"	
o-Xylene	ND	220	"	"	"	"	"	"	

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.



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

Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: [none] Reported:
Benicia CA, 94510 Project Manager: Jim Gribi 10/06/11 17:03

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD Limit	Notes
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Batch 1092803 - General Prep VOC-MS

Blank (1092803-BLK1) Prepared: 09/28/11 Analyzed: 09/29/11

Isopropyl alcohol	ND	130	ug/m ³ Air					TO-14
Benzene	ND	160	"					TO-14
Toluene	ND	190	"					TO-14
Ethylbenzene	ND	220	"					TO-14
m,p-Xylene	ND	220	"					TO-14
o-Xylene	ND	220	"					TO-14

Duplicate (1092803-DUP1) Source: T111355-01 Prepared: 09/28/11 Analyzed: 09/29/11

Isopropyl alcohol	ND	130	ug/m ³ Air		ND		30	TO-14
Benzene	ND	160	"		ND		30	TO-14
Toluene	ND	190	"		ND		30	TO-14
Ethylbenzene	ND	220	"		ND		30	TO-14
m,p-Xylene	ND	220	"		ND		30	TO-14
o-Xylene	ND	220	"		ND		30	TO-14

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Gribi Associates Project: Fidelity Roof
1090 Adam Street, Suite K Project Number: [none] Reported:
Benicia CA, 94510 Project Manager: Jim Gribi 10/06/11 17:03

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

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Daniel Chavez, Project Manager

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SAMPLE RECEIVING REVIEW SHEET

BATCH # T11372
 Client Name: GRI Project: FIDELITY ROOF

Received by: Brian Date/Time Received: 9/29/11

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 BC 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 9/28/11

Comments:
CAN #S WERE MARKED WRONG.

SunStar Laboratories, Inc.
 25712 Commercecenter Dr
 Lake Forest, CA 92630
 949.297.5020

Chain of Custody Record

Client: GRI Associates
 Address: _____
 Phone: _____ Fax: _____
 Project Manager: J GRI

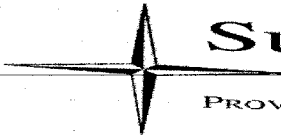
Date: 9/28/11 Page: 1 of 1
 Project Name: FIDELITY ROOF
 Collector: GRI, R. B. YAK Client Project #: _____
 Batch #: _____ EDF #: _____

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
<u>SG-1</u>	<u>9/28/11</u>	<u>08:27</u>	<u>AIR</u>	<u>SUBSTRATE</u>												
<u>SG-2</u>	<u>9/28/11</u>	<u>09:48</u>	<u>AIR</u>	<u>SUBSTRATE</u>												
<u>SG-3</u>	<u>9/28/11</u>	<u>09:21</u>	<u>AIR</u>	<u>SUBSTRATE</u>												
<u>XXX TO-15 BTEX & Alcohol only</u>																
Requested by: (signature)	Date / Time	Received by: (signature)	Date / Time	Total # of containers												
Requested by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/N/A												
Requested by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/N/A												
Requested by: (signature)	Date / Time	Received by: (signature)	Date / Time	Received good condition?												
Requested by: (signature)	Date / Time	Received by: (signature)	Date / Time	Turn around time:												
				Notes												
				No EDF												

SunStar Laboratories
 25712 Commercentre Dr.
 Lake Forest, CA 92630
 (949)297-6020

Form F-LP0005-1.2
 Effective Date: 02/10/05

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



SunStar
Laboratories, Inc.
 PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Canister Data Sheet

Client: GRIBI_JIM G_ 5/5/2011_13+2

Shipping Information				Sampling Information				
Canister Serial #	CHECK Date	Pressure (-30 +/- 2 psia)	Sample ID	Sample Date	Initial Pressure	Final Pressure	Sample Start Time	Sample Finish Time
SSAT-	0092	5/5/2011	-30					
SSAT-	0169	5/5/2011	-30					
SSAT-	0405	5/5/2011	-30					
SSAT-	0425	5/5/2011	-30					
SSAT-	0429	5/5/2011	-30					
SSAT-	0473	5/5/2011	-30					
SSAT-	0606	5/5/2011	-30					
SSAT-	0644	5/5/2011	-30					
SSAT-	0654	5/5/2011	-30					
SSAT-	0657	5/5/2011	-30					
SSAT-	0693	5/5/2011	-30					
SSAT-	0712	5/5/2011	-30					
SSAT-	2095	5/5/2011	manifold	150 ml/mn				
SSAT-	2029	5/5/2011	manifold	150 ml/mn				