

## Jurek, Anne, Env. Health

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**From:** Lita Freeman <litafreeman@gmail.com>  
**Sent:** Monday, August 22, 2016 9:14 PM  
**To:** Jurek, Anne, Env. Health  
**Cc:** Roe, Dilan, Env. Health; Bradley Hirst; Darrick Sun  
**Subject:** Summary of Findings, Table, Figures, Lab Reports for RO3199, 927 Main Street, Pleasanton, CA  
**Attachments:** Summary of Findings\_927 Main Street\_Pleasanton\_CA\_Aug2016.pdf; Table and Figures\_927 Main St\_Pleasanton\_CA\_Aug2016.pdf; Analytical Reports\_SB-3\_-4\_-5\_927 Main Street\_Pleasanton\_CA\_Aug2016.pdf

Hi Anne

In preparation for the meeting this Thursday August 25, 2016, please find attached the following:

-Summary of Findings (summary of results with respect to media-specific criteria as described in the LTCP)

-Table: Table 1 Soil and Groundwater Samples Organics  
Analytical Summary

-Figures: Figure 1 Site Map

Figure 2 Site Plan

Figure 3 Site Plan Soil and Groundwater Samples  
Results Summary

Figure 4 Site Plan Benzene Concentrations in Groundwater

Figure 5 Site Plan MTBE Concentrations in Groundwater

Figure 6 Site Plan TPHg Concentrations in Groundwater

Figure 7 Well Survey Results

-Laboratory Analytical Reports

Please let me know if you have any questions or need additional information prior to our meeting. We look forward to meeting with you again.

Thank you

Lita

Lita D. Freeman, PG, CAC

[Environmental Risk Assessors](#)

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US SBA Veteran-Owned Small Business



## Summary of Findings, Table, Figures, Lab Reports for RO3199, 927 Main Street, Pleasanton, CA

The following presents a brief summary of the results with respect to media-specific criteria as described in the LTCP. Please refer to the following:

-Table: Table 1 Soil and Groundwater Samples Organics Analytical Summary

-Figures: Figure 1 Site Map

Figure 2 Site Plan

Figure 3 Site Plan Soil and Groundwater Samples Results Summary

Figure 4 Site Plan Benzene Concentrations in Groundwater

Figure 5 Site Plan MTBE Concentrations in Groundwater

Figure 6 Site Plan TPHg Concentrations in Groundwater

Figure 7 Well Survey Results

### 1. Groundwater

-*Plume Study*: Comparison of the groundwater analytical results to the compounds noted in Table 1 of the Technical Justification for Groundwater Media-Specific Criteria indicated the following:

- Benzene was not detected in groundwater samples at concentrations at or above the laboratory reporting limit of 0.5 micrograms per liter ( $\mu\text{g/L}$ ); based on the lack of benzene detections in groundwater (see Table 1 and Figure 4) isoconcentration contours are not presented on Figure 4

- MTBE was not detected in groundwater samples at concentrations at or above the laboratory reporting limits of 0.5 to 1  $\mu\text{g/L}$ ; based on the lack of MTBE detections in groundwater (see Table 1 and Figure 5) isoconcentration contours are not presented on Figure 5

- Total petroleum hydrocarbons quantified as gasoline (TPHg) was detected in groundwater samples from borings SB-2 and SB-5 at concentrations of 1,400  $\mu\text{g/L}$  and 230  $\mu\text{g/L}$ , respectively (see Table 1 and Figure 6); the TPHg 100  $\mu\text{g/L}$  isoconcentration contour is presented on Figure 6

- *Plume Length*: The length of the TPHg plume is estimated to be approximately 65 feet as measured from the source area to the plume boundary (100  $\mu\text{g/L}$  isoconcentration contour) as shown on Figure 6

*-Well Survey:* A water well survey was conducted by ETIC in 2010 for the former gasoline service station located to the east of the Site across Main Street at 1024 Main Street. Data collected at that time by ETIC indicated that three municipal water-supply wells owned by the City of Pleasanton (identified as 16L1, 16L5, and 16L7 on Figure 7) are located approximately 2,150 feet north of the Site; two privately owned water-supply wells (identified as 21C1 and 21C3 on Figure 7) are located approximately 410 feet south of the Site; two privately owned water-supply wells (identified as 21B2 and 21B3 on Figure 7) are located approximately 1,450 feet east-southeast of the Site; and five abandoned water-supply wells (identified as 16L10, 16L11, 16M1, 16M2, and 16M3 on Figure 7) are located more than 1,600 feet north to northeast of the Site.

*-Surface Water:* The nearest surface water body, Arroyo Valle, is located approximately 325 feet south of the Site across Del Valle Parkway.

*-Low Threat Groundwater Class:* Based on the short, stabilized plume length of less than 100 feet for TPHg and lack of benzene and MTBE in groundwater which indicates a small or depleted source and/or very high natural attenuation rate, and the lack of receptors (existing water supply well or surface water body) within 250 feet of the Site, the Site satisfies the Class 1 Groundwater Plume Class Criteria.

## **2. Petroleum Vapor Intrusion to Indoor Air**

*-Soil:* Analysis of soil samples collected from the five on-site borings in November 2015 through August 2016 did not reveal the presence of benzene (laboratory reporting limit of 0.005 milligram per kilogram [mg/kg]), MTBE (laboratory reporting limits of 0.005 mg/kg to 0.020 mg/kg), or toluene (laboratory reporting limit of 0.005 mg/kg). Naphthalene (laboratory reporting limit of 0.005 mg/kg) was detected in soil sample SB-5-36 at a concentration of 0.026 mg/kg, ethylbenzene (laboratory reporting limit of 0.005 mg/kg) was detected in soil sample SB-3-32 at a concentration of 0.022 mg/kg, and xylenes (laboratory reporting limit of 0.005 mg/kg) was detected in soil samples SB-3-32 and SB-5-36 at concentrations of 0.137 mg/kg and 0.022 mg/kg, respectively. The soil samples with reported detections of naphthalene, ethylbenzene, and xylenes were collected from intervals of discolored (greenish) soil (see discussion in Section 4 below). Overall, weathered petroleum hydrocarbons were not present in soil samples collected from depths of less than 32 feet below ground surface (bgs).

*-Soil Gas:* A soil gas sample was collected from a depth of approximately 5 feet below the foundation level of the on-site building at sampling location SB-3. The soil gas sample was collected from the pavement area immediately south of the on-site building. Analysis of the soil gas sample revealed the presence of naphthalene at a concentration of 11 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) and methane at 0.0009 percent (%). The naphthalene concentration was below the Environmental Screening Level of 41  $\mu\text{g}/\text{m}^3$  for naphthalene in soil gas as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Tier 1 ESLs, February 2016). The methane concentration was below the lower explosive limit of 5%.

*-Petroleum Vapor Intrusion to Indoor Air:* Based on the lack of weathered petroleum hydrocarbons in shallow soil and low levels of naphthalene (below ESL) and methane (below

LEL) in soil gas, petroleum vapor intrusion to indoor air does not appear to be a significant environmental or health concern at the Site.

### 3. Direct Contact and Outdoor Air Exposure

-*Soil*: During the subsurface investigation, soil samples were collected from the 0- to 5-foot depth interval and the 5- to 10-foot depth interval for petroleum hydrocarbon analysis, including benzene, ethylbenzene, and naphthalene (as presented in Table 1 of the LTCP). This table provides the following limits for benzene, ethylbenzene, and naphthalene concentrations at commercial/industrial properties:

	0- to 5-foot depth interval	5- to 10-foot depth interval
Benzene	8.2 mg/kg	12 mg/kg
Ethylbenzene	89 mg/kg	134 mg/kg
Naphthalene	45 mg/kg	45 mg/kg

As noted above in Section 2, benzene was not present in soil samples collected from on-site borings at concentrations at or above its laboratory reporting limit. Ethylbenzene and naphthalene were each detected in soil samples collected from depths of 32 feet bgs or more from intervals of discolored (greenish) soil. No areas of shallow petroleum hydrocarbon-impacted soil were identified on site during the subsurface investigations. The laboratory reporting limit for benzene (0.005 mg/kg) and the concentrations of ethylbenzene (0.022 mg/kg) and naphthalene (0.026 mg/kg) were well below the limits presented above for each depth interval.

-*Site Conditions/Use*: The surface across the Site is covered by the on-site building, concrete sidewalk, asphalt pavement, and landscaping areas. Currently, the Site is used for commercial purposes and there are no redevelopment plans.

-*Direct Contact and Outdoor Air Exposure*: Based on the lack of petroleum hydrocarbons in shallow soil, current site conditions, and current commercial use of the Site, direct contact with soil and outdoor exposure does not appear to be a significant environmental or health concern at the Site.

### 4. Additional Information

-*PID Readings*: During the subsurface investigation in November 2015, photoionization detector (PID) readings for soil samples collected from boring SB-2 were elevated (ranging from 209 to 376 parts per million volume [ppmv]). These readings did not correlate with visual observations (no evidence of soil staining) or laboratory analysis of soil samples collected from this boring (analytes not detected at concentrations at or above laboratory reporting limits or detected at levels well below screening levels [ESLs]). PID readings for boring SB-3 advanced during the August 2016 subsurface investigation using an instrument obtained from another source did not support the elevated PID readings for boring SB-2.

The PID readings for borings SB-2 and SB-3 are summarized in the following table.

<b>Boring:</b>	<b>SB-2</b>	<b>SB-3</b>
Depth (ft bgs)/PID Reading (ppmv)	5'/264	4'/0
	9.5'/209	8'/0
	-	12'/0
	15'/267	16'/0
	19.5'/298	-
	-	25'/0
	29.5'/376	30'/2.5
	-	32'/1.8
	-	34'/0
	-	36'/0
	-	37'/0

The highest PID reading for soil in borings SB-3 and SB-5 was 83.9 ppmv for the soil sample collected from boring SB-5 at the 40-foot depth. The remaining PID readings for soil in borings SB-3 and SB-5 were less than 2.7 ppmv with the majority being 0.0 ppmv.

*-Discolored Soil:* Discolored soil (greenish color) was encountered in soil borings SB-2, SB-3, and SB-5 during the subsurface investigation. Discolored soil intervals are summarized in the following table. The discolored soil is likely related to a “smear” zone of petroleum hydrocarbons based on the apparent correlation between the intervals with discolored soil and the depth to water.

<b>Boring:</b>	<b>SB-2</b>	<b>SB-3</b>	<b>SB-5</b>
Discolored soil interval (ft bgs)	30 - 34	31 – 33	31 – 32
		34 – 36	34 - 39
Depth to Groundwater	35	38	37
Total Depth of Boring	36	40	44

**Table 1**  
**Soil and Groundwater Samples Organics Analytical Summary**  
**Main Street Property**  
**927 Main Street**  
**Pleasanton, California**

On-Site Location/ Comments	Sample ID	Sample Depth (feet bgs) <sup>1</sup>	Matrix	Petroleum Hydrocarbons <sup>2</sup> Soil: mg/kg; Groundwater: µg/L			VOCs <sup>3</sup> Soil: mg/kg; Groundwater: µg/L					
				TPHg <sup>3</sup>	TPHd <sup>3</sup>	TPHss <sup>3</sup>	Benzene	MTBE	Naphthalene	Toluene	Ethylbenzene	Xylenes
<b>ESL for Shallow Soil</b>				100	240	100	0.044	0.023	0.023	2.9	1.4	2.3
North of Former Gas Station Building	SB-1-5.5	5.0 - 5.5	Soil	<1	<1	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
South of Former Gas Station Building	SB-2-2	1.5 - 2.0	Soil	<1	<b>16</b>	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
South of Former Gas Station Building	SB-3-10	9.5 - 10.0	Soil	<0.5	<10	<10	<0.005	<0.020	<0.005	<0.005	<0.005	<0.005
South of Former Gas Station Building	SB-3-32	31.5 - 32.0	Soil	<b>0.99</b>	<10	<10	<0.005	<0.020	<0.005	<0.005	<b>0.022</b>	<b>0.137</b>
Area of Former Southern Canopy	SB-4-3	2.5 - 3.0	Soil	<0.5	<10	<10	<0.005	NA	<0.005	<0.005	<0.005	<0.005
Area of Former Southern Canopy	SB-4-7.5	7.0 - 7.5	Soil	<0.5	<10	<10	<0.005	NA	<0.005	<0.005	<0.005	<0.005
Area of Former Northern Canopy	SB-5-4.5	4.0 - 4.5	Soil	<0.5	<10	<10	<0.005	<0.020	<0.005	<0.005	<0.005	<0.005
Area of Former Northern Canopy	SB-5-8	7.5 - 8.0	Soil	<0.5	<10	<10	<0.005	<0.020	<0.005	<0.005	<0.005	<0.005
Area of Former Northern Canopy	SB-5-36	35.5 - 36.0	Soil	<0.5	<10	<10	<0.005	<0.020	<b>0.026</b>	<0.005	<0.005	<b>0.022</b>
<b>ESL for Groundwater</b>				100	100	100	1	5	0.12	40	13	20
North of Former Gas Station Building	SB-1-W	NA	Ground-water	<50	<b>120</b>	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
South of Former Gas Station Building	SB-2-W	NA	Ground-water	<b>1,400</b>	<b>1,000</b>	<b>1,400</b>	<0.5	<0.5	<b>5.3</b>	<0.5	<b>6.1</b>	<b>19</b>
South of Former Gas Station Building	SB-3-W	NA	Ground-water	<50	<500	<500	<0.5	<1	<1	<b>0.57</b>	<b>1.7</b>	<b>6.6</b>
Area of Former Southern Canopy	SB-4-W	NA	Ground-water	<50	<500	<500	<0.5	NA	<1	<0.5	<0.5	<0.5
Area of Former Northern Canopy	SB-5-W	NA	Ground-water	<b>230</b>	<500	<b>940</b>	<0.5	<1	<b>19</b>	<0.5	<b>2.8</b>	<b>40</b>

**Notes:**

Units: Soil: mg/kg = milligrams per kilogram, Groundwater: µg/L = micrograms per liter

1. bgs = below ground surface

2. TPHg, TPHd, TPHss = Total petroleum hydrocarbons (TPH) quantified as gasoline, quantified as diesel, and TPH quantified as Stoddard solvent were analyzed using U.S. EPA Method 8015B/C.

3. Volatile organic compounds (VOCs) were analyzed using U.S. EPA Method 8260B.

ESL = Environmental Screening Levels as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Tier 1 ESLs, February 2016.

SFBRWQCB Tier 1 Environmental Screening Levels (SFBRWQCB, 2016) Note 2 states: TPH motor oil is not soluble. TPH motor oil detections in water most likely are petroleum degradates or less likely NAPL. If the detections are degradates, add TPH motor oil and TPH diesel results and compare to

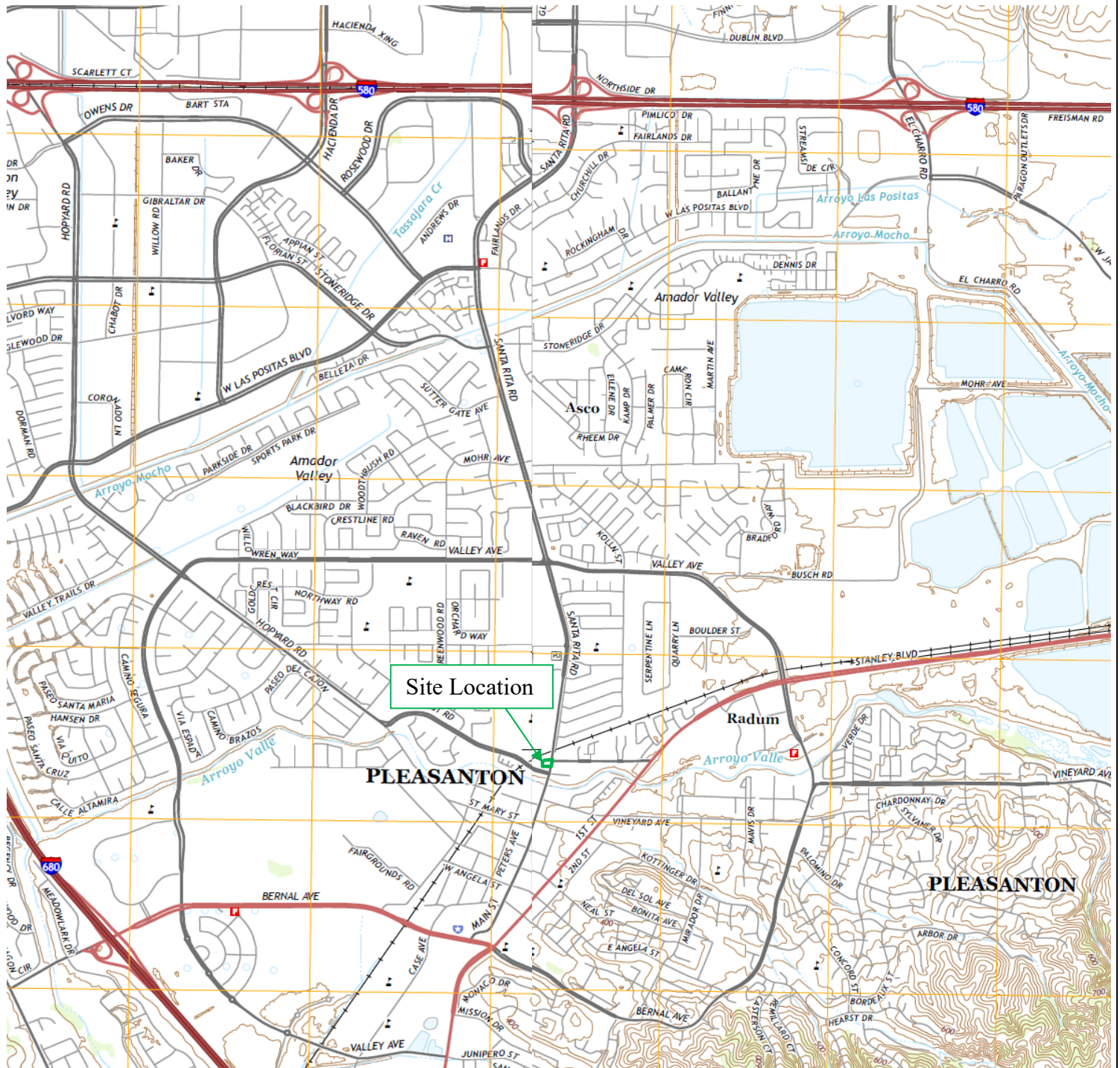
MTBE = Methyl tert-butyl ether

NE = Not established

<1 = Not detected at stated concentration

**Bold** = Compound detected

**Bold** = Compound detected above ESL



USGS Dublin and Livermore, California Quadrangle Topographic Maps, 2015

<p>Legend</p> <p>— Site (boundaries approximate)</p>
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**Site Location Map**

**SUPPLEMENTAL SITE INVESTIGATION**

927 Main Street, Pleasanton, California

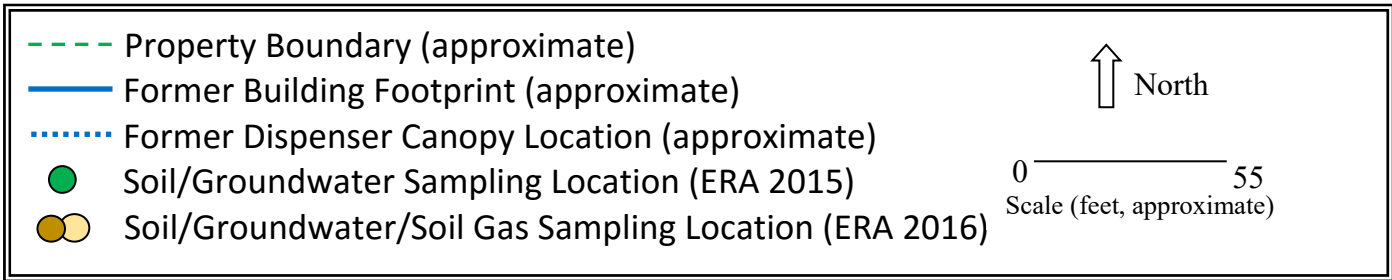
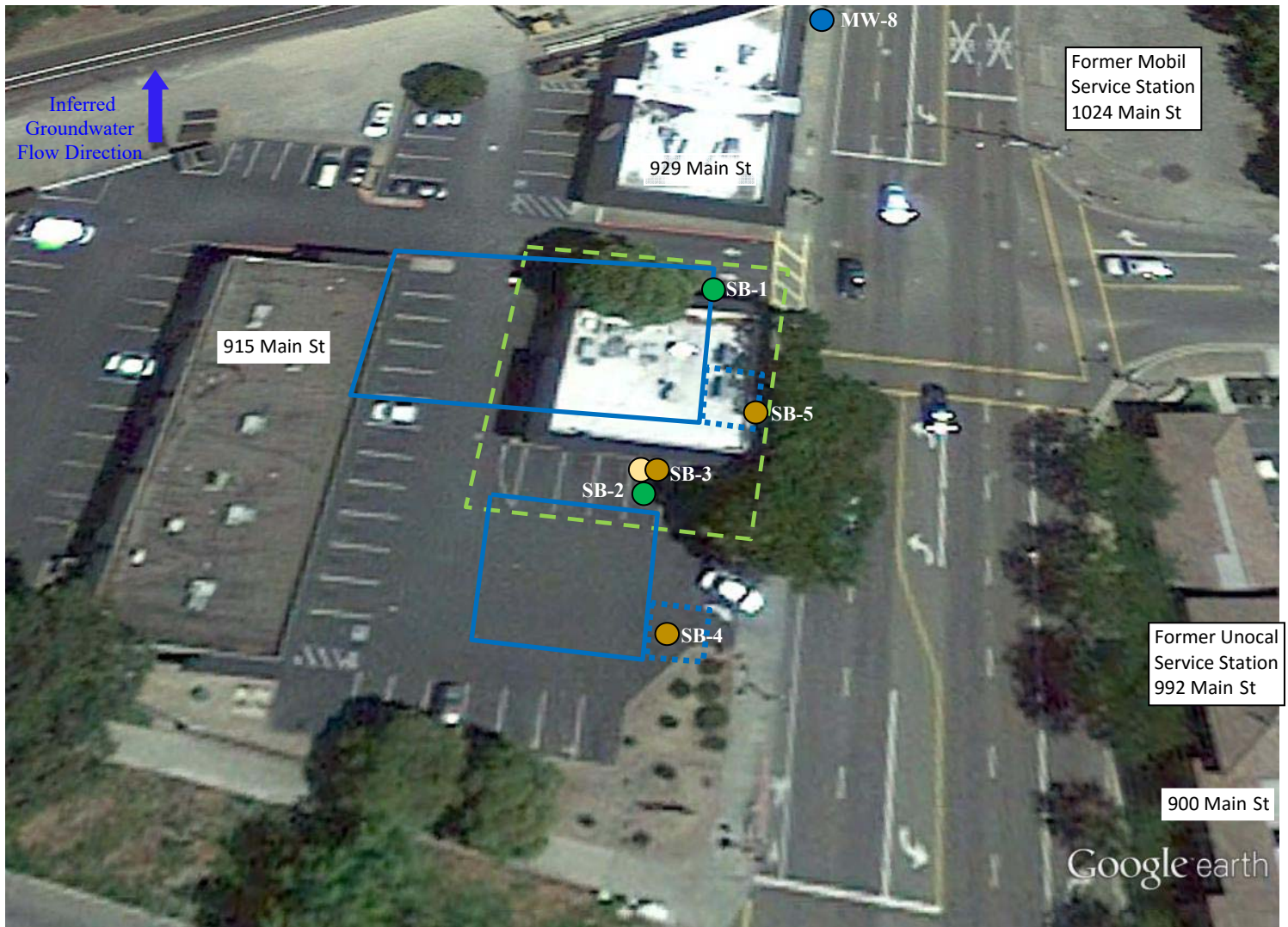
PN: 01-2016-1300-001

Date: August 22, 2016

EP: Lita Freeman

**Figure 1**





**Site Plan**

**SUPPLEMENTAL SITE INVESTIGATION**

927 Main Street, Pleasanton, California

PN: 01-2016-1300-001

Date: August 22, 2016

EP: Lita Freeman

**Figure 2**



Former Mobil Well MW-8 Groundwater Results

	TPHg	TPHd	B	MTBE
Oct 1990	900	ND	3	NA
Jul 1992	270	ND	ND	NA
Jul 1993	ND	ND	ND	NA

Former Mobil Service Station  
1024 Main St

	TPHg	TPHd	TPHss	B	MTBE	Naph.
SB-1-5.5	<1	<1	<1	<0.005	<0.005	<0.005
SB-1-W	<50	<b>120</b>	<50	<0.5	<0.5	<0.5

	TPHg	TPHd	TPHss	B	MTBE	Naph.
SB-5-4.5	<0.5	<10	<10	<0.005	<0.020	<0.005
SB-5-8	<0.5	<10	<10	<0.005	<0.020	<0.005
SB-5-36	<0.5	<10	<10	<0.005	<0.020	<b>0.026</b>
SB-5-W	<b>230</b>	<500	<b>940</b>	<0.5	<1	<b>19</b>

	TPHg	TPHd	TPHss	B	MTBE	Naph.
SB-2-2	<1	<b>16</b>	<1	<0.005	<0.005	<0.005
SB-2-W	<b>1,400</b>	<b>1,000</b>	<b>1,400</b>	<0.5	<0.5	<b>5.3</b>

	TPHg	TPHd	TPHss	B	MTBE	Naph.	Methane
SB-3-10	<0.5	<10	<10	<0.005	<0.020	<0.005	NA
SB-3-32	<b>0.990</b>	<10	<10	<0.005	<0.020	<0.005	NA
SB-3-W	<50	<500	<500	<0.5	<1	<1	NA
SB-3-SG	NA	NA	NA	NA	NA	<11	0.0009

	TPHg	TPHd	TPHss	B	Naph.
SB-4-3	<0.5	<10	<10	<0.005	<0.005
SB-4-7.5	<0.5	<10	<10	<0.005	<0.005
SB-4-W	<50	<500	<500	<0.5	<1

Former Unocal Service Station  
992 Main St

TPHg = Total Petroleum Hydrocarbons quantified as gasoline  
 TPHd = TPH quantified as diesel  
 TPHss = TPH quantified as Stoddard solvent  
 B = Benzene  
 MTBE = Methyl tert-butyl ether  
 Naph. = Napthalene  
 SB-1-5.5 = Soil sample from boring SB-1 at 5.0-5.5 depth interval  
 SB-1-W = Groundwater sample from boring SB-1

	TPHg	TPHd	TPHss	B	MTBE	
SB-1-5.5	<1	<1	<1	<0.005	<0.005	Soil in mg/kg
SB-1-W	<50	<b>120</b>	<50	<0.5	<0.5	Groundwater in µg/L

units: Soil: mg/kg = milligrams per kilogram  
 Groundwater: µg/L = micrograms per liter  
 Soil Gas (Naph.): µg/m<sup>3</sup> = micrograms per cubic meter  
 Soil Gas (Methane): % = Percent

**120** = Noted analyte detected at stated concentration  
 <1/NA = Noted analyte not detected at concentration at or above stated laboratory reporting limit/Not Analyzed

- - - - Property Boundary (approximate)
- Former Building Footprint (approximate)
- ⋯⋯⋯ Former Dispenser Canopy Location (approximate)
- Soil/Groundwater Sampling Location (ERA 2015)
- Soil/Groundwater/Soil Gas Sampling Location (ERA 2016)

North  
 0 ————— 55  
 Scale (feet, approximate)

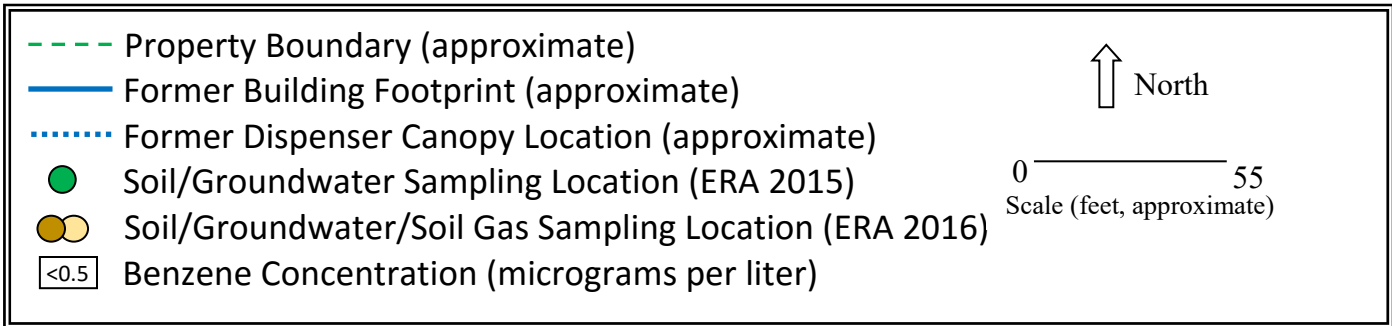


**Site Plan**  
**Soil and Groundwater Samples Results Summary**

**SUPPLEMENTAL SITE INVESTIGATION**  
 927 Main Street, Pleasanton, California

PN: 01-2016-1300-001  
 Date: August 22, 2016  
 EP: Lita Freeman

**Figure 3**



**Site Plan**  
**Benzene Concentrations in Groundwater**

**SUPPLEMENTAL SITE INVESTIGATION**

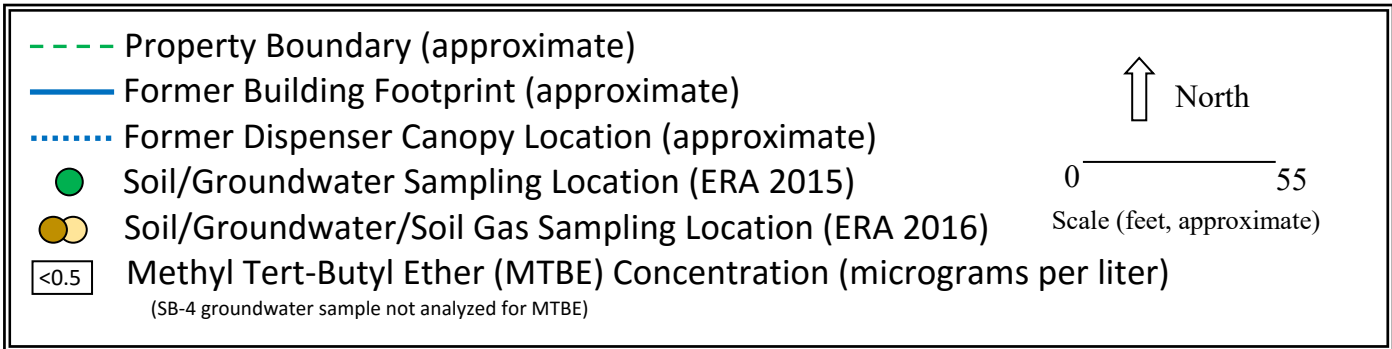
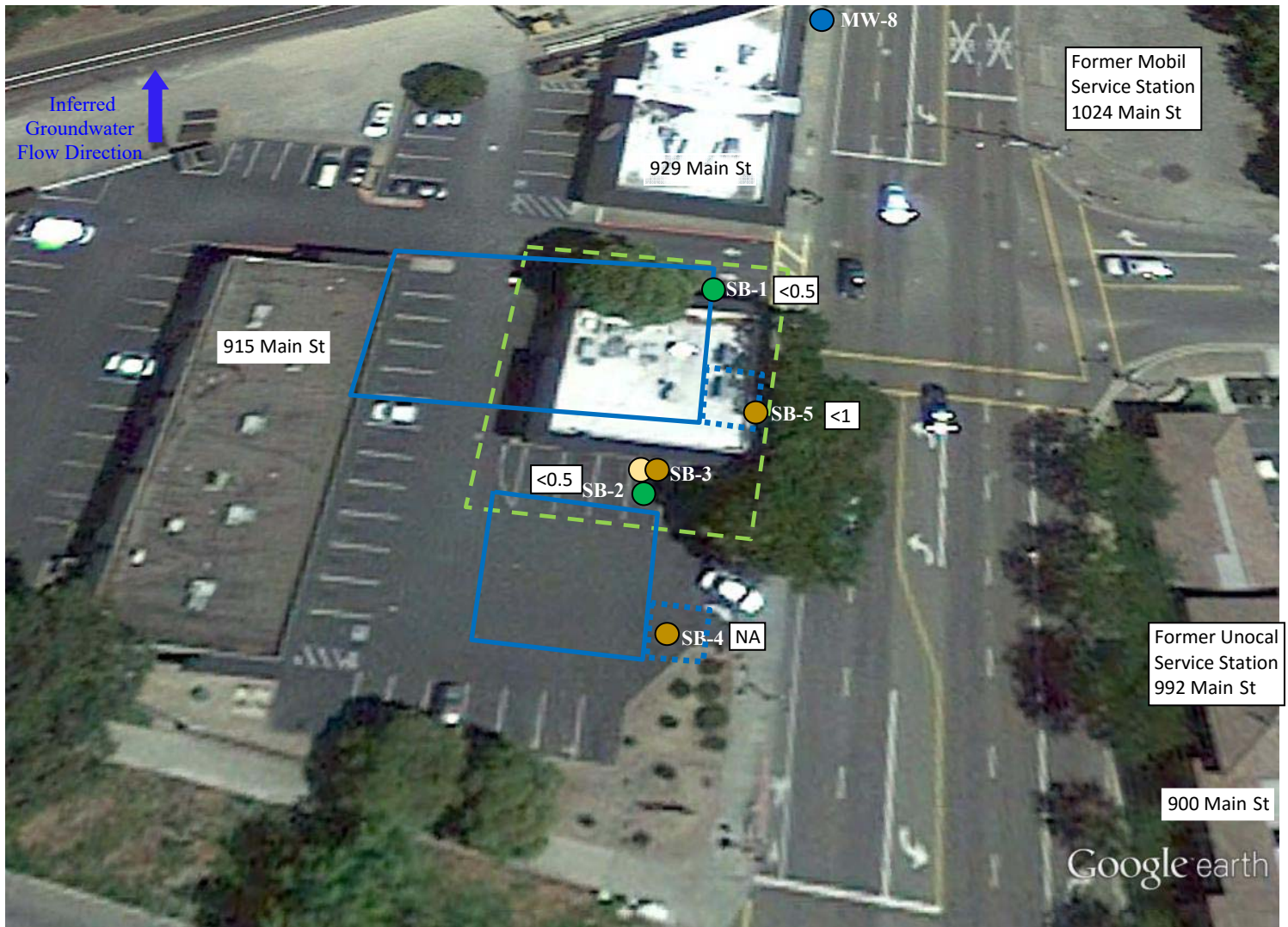
927 Main Street, Pleasanton, California

PN: 01-2016-1300-001

Date: August 22, 2016

EP: Lita Freeman

**Figure 4**



**Site Plan**  
**MTBE Concentrations in Groundwater**

PN: 01-2016-1300-001

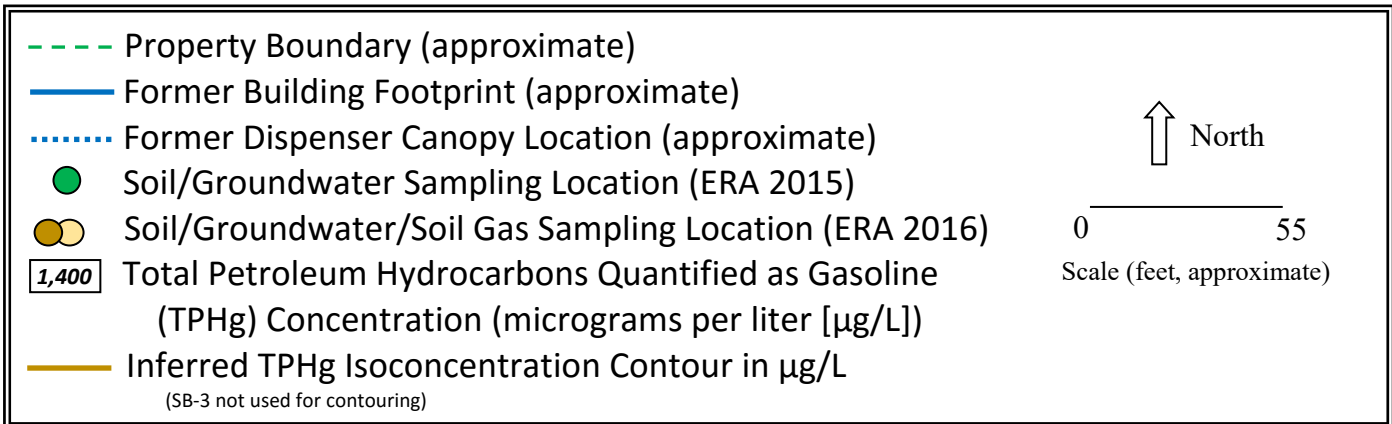
Date: August 22, 2016

**SUPPLEMENTAL SITE INVESTIGATION**

EP: Lita Freeman

927 Main Street, Pleasanton, California

**Figure 5**



**Site Plan**  
**TPHg Concentrations in Groundwater**

**SUPPLEMENTAL SITE INVESTIGATION**

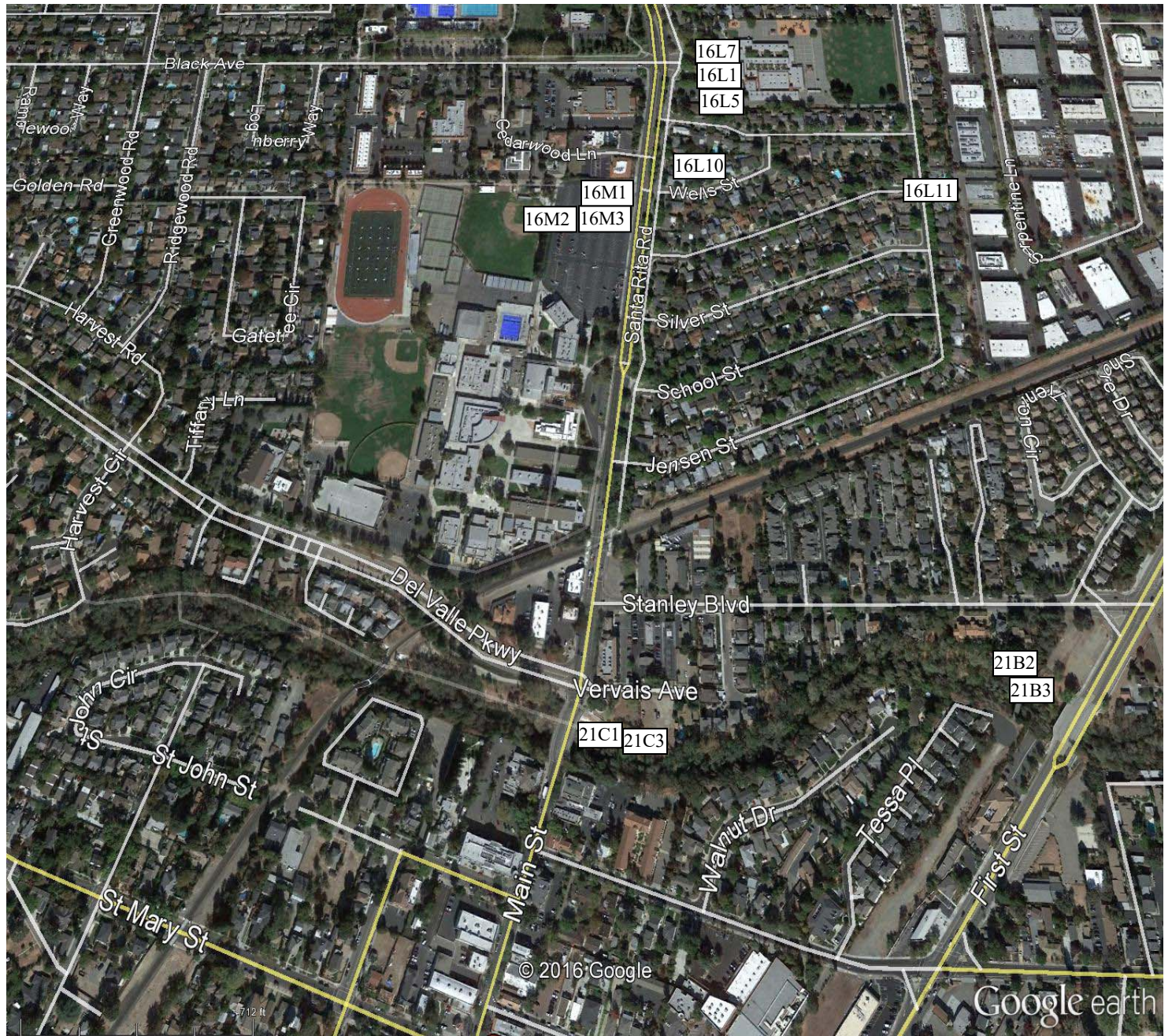
927 Main Street, Pleasanton, California

PN: 01-2016-1300-001

Date: August 22, 2016

EP: Lita Freeman

**Figure 6**



**Well Survey Results**  
**Source: ETIC, 2010, Detailed Well Survey Report**

**SUPPLEMENTAL SITE INVESTIGATION**

927 Main Street, Pleasanton, California

PN: 01-2016-1300-001

Date: August 22, 2016

EP: Lita Freeman

**Figure 7**



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

11 August 2016

Lita Freeman  
Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville, CA 95661  
RE: Main Street Property

Enclosed are the results of analyses for samples received by the laboratory on 08/06/16 08:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Katherine RunningCrane For Rose Fasheh  
Project Manager



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

Environmental Risk Assessors  
 1420 E Roseville Pkwy  
 Roseville CA, 95661

Project: Main Street Property  
 Project Number: 01-2016-1300-001  
 Project Manager: Lita Freeman

**Reported:**  
 08/11/16 16:52

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-3-10	T161842-03	Soil	08/05/16 07:55	08/06/16 08:40
SB-3-32	T161842-08	Soil	08/05/16 08:10	08/06/16 08:40
SB-3-GW	T161842-12	Water	08/05/16 09:20	08/06/16 08:40
SB-5-4.5	T161842-13	Soil	08/05/16 10:30	08/06/16 08:40
SB-5-8	T161842-14	Soil	08/05/16 10:35	08/06/16 08:40
SB-5-36	T161842-20	Soil	08/05/16 11:00	08/06/16 08:40
SB-5-GW	T161842-22	Water	08/05/16 11:45	08/06/16 08:40

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.*

*Katherine RunningCrane*

Katherine RunningCrane For Rose Fasheh, Project Manager



Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
08/11/16 16:52

**DETECTIONS SUMMARY**

**Sample ID:** SB-3-10

**Laboratory ID:** T161842-03

No Results Detected

**Sample ID:** SB-3-32

**Laboratory ID:** T161842-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C6-C12 (GRO)	990	500	ug/kg	EPA 8015C	
Ethylbenzene	22	5.0	ug/kg	EPA 8260B	
m,p-Xylene	120	10	ug/kg	EPA 8260B	
o-Xylene	17	5.0	ug/kg	EPA 8260B	

**Sample ID:** SB-3-GW

**Laboratory ID:** T161842-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Toluene	0.57	0.50	ug/l	EPA 8260B	
Ethylbenzene	1.7	0.50	ug/l	EPA 8260B	
m,p-Xylene	5.1	1.0	ug/l	EPA 8260B	
o-Xylene	1.5	0.50	ug/l	EPA 8260B	

**Sample ID:** SB-5-4.5

**Laboratory ID:** T161842-13

No Results Detected

**Sample ID:** SB-5-8

**Laboratory ID:** T161842-14

No Results Detected

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.*

*Katherine RunningCrane*

Katherine RunningCrane For Rose Fasheh, Project Manager

Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
08/11/16 16:52

**Sample ID:** SB-5-36

**Laboratory ID:** T161842-20

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Naphthalene	26	5.0		ug/kg	EPA 8260B	
m,p-Xylene	22	10		ug/kg	EPA 8260B	

**Sample ID:** SB-5-GW

**Laboratory ID:** T161842-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C6-C12 (GRO)	230	50		ug/l	EPA 8015C	
Stoddard Solvent	0.94	0.50		mg/l	EPA 8015C	
Naphthalene	19	1.0		ug/l	EPA 8260B	
Ethylbenzene	2.8	0.50		ug/l	EPA 8260B	
m,p-Xylene	40	1.0		ug/l	EPA 8260B	

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Katherine RunningCrane For Rose Fasheh, Project Manager



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**SB-3-10**  
**T161842-03 (Soil)**

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

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6080832	08/08/16	08/10/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		74.8 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6080838	08/08/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		125 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6080833	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		116 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	95.7-135		"	"	"	"	

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**SB-3-32**  
**T161842-08 (Soil)**

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

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>990</b>	500	ug/kg	1	6080832	08/08/16	08/10/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		67.9 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6080838	08/08/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		125 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6080833	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>22</b>	5.0	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>120</b>	10	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>17</b>	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		111 %	85.5-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	95.7-135		"	"	"	"	

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**SB-3-GW**  
**T161842-12 (Water)**

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

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	50	ug/l	1	6080828	08/08/16	08/10/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		92.9 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	0.50	mg/l	1	6080928	08/09/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		88.5 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	1.0	ug/l	1	6080827	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.57</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.7</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>5.1</b>	1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>1.5</b>	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.9 %	88.8-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		88.0 %	81.1-136		"	"	"	"	

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**SB-5-4.5**  
**T161842-13 (Soil)**

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

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6080832	08/08/16	08/10/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		55.1 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6080838	08/08/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		112 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6080833	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		107 %	85.5-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		110 %	95.7-135		"	"	"	"	

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**SB-5-8**  
**T161842-14 (Soil)**

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

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6080832	08/08/16	08/10/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		50.4 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6080838	08/08/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		114 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6080833	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		107 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		111 %	95.7-135		"	"	"	"	

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**SB-5-36**  
**T161842-20 (Soil)**

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

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6080832	08/08/16	08/10/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		66.2 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6080838	08/08/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		122 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	26	5.0	ug/kg	1	6080833	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	22	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		114 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	95.7-135		"	"	"	"	

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**SB-5-GW**  
**T161842-22 (Water)**

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

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>230</b>	50	ug/l	1	6080828	08/08/16	08/10/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		72.0 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

<b>Stoddard Solvent</b>	<b>0.94</b>	0.50	mg/l	1	6080928	08/09/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		82.4 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

<b>Naphthalene</b>	<b>19</b>	1.0	ug/l	1	6080827	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>2.8</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>40</b>	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	88.8-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		78.0 %	81.1-136		"	"	"	"	S-GC

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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080828 - EPA 5030 GC**

<b>Blank (6080828-BLK1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	76.5		"	100		76.5	65-135			
<b>LCS (6080828-BS1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	4430	50	ug/l	5500		80.5	75-125			
Surrogate: 4-Bromofluorobenzene	68.1		"	100		68.1	65-135			
<b>LCS Dup (6080828-BSD1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	4380	50	ug/l	5500		79.6	75-125	1.13	20	
Surrogate: 4-Bromofluorobenzene	65.9		"	100		65.9	65-135			

**Batch 6080832 - EPA 5030 GC**

<b>Blank (6080832-BLK1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	ND	500	ug/kg							
Surrogate: 4-Bromofluorobenzene	90.0		"	100		90.0	65-135			
<b>LCS (6080832-BS1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	11800	500	ug/kg	10900		108	75-125			
Surrogate: 4-Bromofluorobenzene	69.4		"	100		69.4	65-135			
<b>LCS Dup (6080832-BSD1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	10800	500	ug/kg	10900		98.9	75-125	8.62	20	
Surrogate: 4-Bromofluorobenzene	67.6		"	100		67.6	65-135			

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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080838 - EPA 3550B GC**

<b>Blank (6080838-BLK1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
Stoddard Solvent	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	117		"	99.3		118	65-135			

<b>LCS (6080838-BS1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C13-C28 (DRO)	550	10	mg/kg	499		109	75-125			
Surrogate: <i>p</i> -Terphenyl	119		"	99.8		119	65-135			

<b>Matrix Spike (6080838-MS1)</b>		<b>Source: T161842-03</b>		Prepared: 08/08/16 Analyzed: 08/10/16						
C13-C28 (DRO)	570	10	mg/kg	499	ND	114	75-125			
Surrogate: <i>p</i> -Terphenyl	122		"	99.8		122	65-135			

<b>Matrix Spike Dup (6080838-MSD1)</b>		<b>Source: T161842-03</b>		Prepared: 08/08/16 Analyzed: 08/10/16						
C13-C28 (DRO)	550	10	mg/kg	499	ND	111	75-125	2.88	20	
Surrogate: <i>p</i> -Terphenyl	121		"	99.8		121	65-135			

**Batch 6080928 - EPA 3510C GC**

<b>Blank (6080928-BLK1)</b>		Prepared: 08/09/16 Analyzed: 08/10/16								
Stoddard Solvent	ND	0.50	mg/l							
C13-C28 (DRO)	ND	0.50	"							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: <i>p</i> -Terphenyl	3.33		"	4.00		83.3	65-135			

<b>LCS (6080928-BS1)</b>		Prepared: 08/09/16 Analyzed: 08/10/16								
C13-C28 (DRO)	17.2	0.50	mg/l	20.0		86.1	75-125			
Surrogate: <i>p</i> -Terphenyl	3.60		"	4.00		89.9	65-135			

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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080928 - EPA 3510C GC**

**LCS Dup (6080928-BSD1)**

Prepared: 08/09/16 Analyzed: 08/10/16

C13-C28 (DRO)	19.2	0.50	mg/l	20.0		96.0	75-125	10.8	20	
Surrogate: <i>p</i> -Terphenyl	3.77		"	4.00		94.2	65-135			

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.*

*Katherine RunningCrane*

Katherine RunningCrane For Rose Fasheh, Project Manager



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

Environmental Risk Assessors  
 1420 E Roseville Pkwy  
 Roseville CA, 95661

Project: Main Street Property  
 Project Number: 01-2016-1300-001  
 Project Manager: Lita Freeman

Reported:  
 08/11/16 16:52

**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 6080827 - EPA 5030 GCMS**

**Blank (6080827-BLK1)**

Prepared & Analyzed: 08/08/16

Naphthalene	ND	1.0	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: Toluene-d8	7.75		"	8.00		96.9	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.61		"	8.00		95.1	83.5-119			
Surrogate: Dibromofluoromethane	6.88		"	8.00		86.0	81.1-136			

**LCS (6080827-BS1)**

Prepared & Analyzed: 08/08/16

Chlorobenzene	20.3	1.0	ug/l	20.0		102	75-125			
1,1-Dichloroethene	17.0	1.0	"	20.0		85.2	75-125			
Trichloroethene	19.4	1.0	"	20.0		96.9	75-125			
Benzene	20.2	0.50	"	20.0		101	75-125			
Toluene	18.0	0.50	"	20.0		89.8	75-125			
Surrogate: Toluene-d8	7.32		"	8.00		91.5	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.70		"	8.00		96.2	83.5-119			
Surrogate: Dibromofluoromethane	7.02		"	8.00		87.8	81.1-136			

**LCS Dup (6080827-BSD1)**

Prepared & Analyzed: 08/08/16

Chlorobenzene	20.3	1.0	ug/l	20.0		101	75-125	0.197	20	
1,1-Dichloroethene	17.0	1.0	"	20.0		85.2	75-125	0.0587	20	
Trichloroethene	18.3	1.0	"	20.0		91.4	75-125	5.90	20	
Benzene	20.0	0.50	"	20.0		100	75-125	0.747	20	
Toluene	17.4	0.50	"	20.0		87.2	75-125	2.94	20	
Surrogate: Toluene-d8	7.34		"	8.00		91.8	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.97		"	8.00		99.6	83.5-119			
Surrogate: Dibromofluoromethane	6.91		"	8.00		86.4	81.1-136			

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane For Rose Fasheh, Project Manager



25712 Commercentre Drive  
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Environmental Risk Assessors  
 1420 E Roseville Pkwy  
 Roseville CA, 95661

Project: Main Street Property  
 Project Number: 01-2016-1300-001  
 Project Manager: Lita Freeman

Reported:  
 08/11/16 16:52

**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 6080833 - EPA 5030 GCMS**

**Blank (6080833-BLK1)**

Prepared & Analyzed: 08/08/16

Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Methyl tert-butyl ether	ND	20	"							
Surrogate: Toluene-d8	46.3		"	39.6		117	85.5-116			S-GC
Surrogate: 4-Bromofluorobenzene	43.1		"	39.6		109	81.2-123			
Surrogate: Dibromofluoromethane	37.5		"	39.6		94.8	95.7-135			S-GC

**LCS (6080833-BS1)**

Prepared & Analyzed: 08/08/16

Benzene	89.5	5.0	ug/kg	99.8		89.7	75-125			
Toluene	91.0	5.0	"	99.8		91.2	75-125			
Surrogate: Toluene-d8	42.8		"	39.9		107	85.5-116			
Surrogate: 4-Bromofluorobenzene	42.8		"	39.9		107	81.2-123			
Surrogate: Dibromofluoromethane	42.5		"	39.9		106	95.7-135			

**LCS Dup (6080833-BSD1)**

Prepared & Analyzed: 08/08/16

Benzene	100	5.0	ug/kg	99.2		101	75-125	11.1	20	
Toluene	95.3	5.0	"	99.2		96.0	75-125	4.58	20	
Surrogate: Toluene-d8	39.7		"	39.7		100	85.5-116			
Surrogate: 4-Bromofluorobenzene	39.2		"	39.7		98.9	81.2-123			
Surrogate: Dibromofluoromethane	43.4		"	39.7		109	95.7-135			

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane For Rose Fasheh, Project Manager



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Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
08/11/16 16:52

### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
- 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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SunStar Laboratories, Inc.

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---

Katherine RunningCrane For Rose Fasheh, Project Manager

**Chain of Custody Record**

Client: ENVIRONMENTAL RISK ASSESSORS  
 Address: 1420 E. ROSEVILLE PKWY #140-262, ROSEVILLE, CA 95661  
 Phone: 916-677-9897 Fax: \_\_\_\_\_  
 Project Manager: LITA FREEMAN

Date: 8/5/16 Page: 1 Of 2  
 Project Name: MAIN STREET PROPERTY  
 Collector: LITA FREEMAN Client Project #: 01-2016-1300-001  
 Batch #: T161842 EDF #: \_\_\_\_\_

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 Naphthalene, BTEX only	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel) + TPHMO	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	TPH Standard solvent	Hold	Laboratory ID #	Comments/Preservative	Total # of containers
SB-3-4	8-5-16	0745	Soil	tube												XX	01		1
SB-3-5	8-5-16	0750	Soil	tube												XX	02		1
SB-3-10	8-5-16	0755	Soil	tube	X					XX					X	XX	03		1
SB-3-15	8-5-16	0758	Soil	tube												XX	04		1
SB-3-20	8-5-16	0803	Soil	tube												XX	05		1
SB-3-25	8-5-16	0807	Soil	tube												XX	06		1
SB-3-30	8-5-16	0810	Soil	tube												XX	07		1
SB-3-32	8-5-16	0810	Soil	tube	X					XX					X	XX	08		1
SB-3-32.5	8-5-16	0815	Soil	tube												XX	09		1
SB-3-35.5	8-5-16	0815	Soil	tube												XX	10		1
SB-3-36	8-5-16	0815	Soil	tube												XX	11		1
SB-3-GW	8-5-16	0920	Groundwater	VDAS	X					XX					XX	XX	12		9
SB-5-4.5	8-5-16	1030	Soil	tube	X					XX					XX	XX	13		1
SB-5-8	8-5-16	1035	Soil	tube	X					XX					XX	XX	14		1
SB-5-10	8-5-16	1038	Soil	tube												X	15		1

Relinquished by: (signature) <u>Lita Freeman</u>	Date / Time <u>8-5-16 1710</u>	Received by: (signature) <u>[Signature]</u>	Date / Time <u>8/5/16 17:10</u>
Relinquished by: (signature) <u>GSO</u>	Date / Time <u>8-6-16 840</u>	Received by: (signature) <u>[Signature]</u>	Date / Time <u>8-6-16 840</u>
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers 23  
 Chain of Custody seals  N/NA  
 Seals intact?  N/NA  
 Received good condition/cold  2.2  
 Turn around time: 5 day

Notes  
 Report to:  
lita.freeman@gmail.com  
8-6-16 EM

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



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

### Chain of Custody Record

Client: Environmental Risk Assessors  
 Address: 1420 E. Roseville Hwy #140-262, Roseville CA 95661  
 Phone: 916-677-9897 Fax: \_\_\_\_\_  
 Project Manager: Lita Freeman

Date: 8/5/16 Page: 2 Of 2  
 Project Name: Main Street Property  
 Collector: Lita Freeman Client Project #: 01-2016-1300-001  
 Batch #: TL61842 EDF #: \_\_\_\_\_

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 Naphthalene/BTEX only	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel) + TPHMD	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	TPH Standard Solvent	Hold	Laboratory ID #	Comments/Preservative	Total # of containers
SB-5-15	8-5-16	1040	Soi	tube											XXXX	16		1
SB-5-20	8-5-16	1045	Soi	tube											XXXX	17		1
SB-5-25	8-5-16	1050	Soi	tube											XXXX	18		1
SB-5-32	8-5-16	1055	Soi	tube											XXXX	19		1
SB-5-36	8-5-16	1100	Soi	tube	X					XX				X	XXXX	20		1
SB-5-39	8-5-16	1110	Soi	tube											X	21		1
SB-5-GW	8-5-16	1145	Groundwater	VOAS	X					XX				X	XXXX	22		9

Relinquished by: (signature) <i>Lita Freeman</i>	Date / Time 8-5-16 1710	Received by: (signature) <i>[Signature]</i>	Date / Time 8/5/16 17:10	Total # of containers	15	Notes report to: lita.freeman@gmail.com <b>STD. TAT</b>
Relinquished by: (signature) GSO	Date / Time 8-6-16 840	Received by: (signature) <i>[Signature]</i>	Date / Time 8-6-16 840	Chain of Custody seals	0/N/A	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact?	0/N/A	
				Received good condition/cold	22	Turn around time: <b>5 day</b>
Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____						

COC135467

## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: TL61842

Client Name: Environmental Risk Assessors Project: Main Street Property

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other

If Courier, Received by: \_\_\_\_\_ Date/Time Courier Received: \_\_\_\_\_

Lab Received by: Don M. Date/Time Lab Received: 8-6-16 840

Total number of coolers received: 1

Temperature:	Cooler #1	2.4	°C +/- the CF (- 0.2°C) =	2.2	°C corrected temperature
Temperature:	Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature:	Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>			Within criteria?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If NO:</b>					
Samples received on ice?		<input type="checkbox"/> Yes		<input type="checkbox"/> No → Complete Non-Conformance Sheet	
If on ice, samples received same day collected?		<input type="checkbox"/> Yes → Acceptable		<input type="checkbox"/> No → Complete Non-Conformance Sheet	

Custody seals intact on cooler/sample  Yes  No\*  N/A

Sample containers intact  Yes  No\*

Sample labels match Chain of Custody IDs  Yes  No\*

Total number of containers received match COC  Yes  No\*

Proper containers received for analyses requested on COC  Yes  No\*

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

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

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: DM 8-6-16

**Comments:** \_\_\_\_\_

**WORK ORDER**

**T161842**

<b>Client:</b> Environmental Risk Assessors	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> Main Street Property	<b>Project Number:</b> 01-2016-1300-001

**Report To:**  
 Environmental Risk Assessors  
 Lita Freeman  
 1420 E Roseville Pkwy  
 Roseville, CA 95661

Date Due:	08/11/16 17:00 (3 day TAT)		
Received By:	Dan Marteski	Date Received:	08/06/16 08:40
Logged In By:	Dan Marteski	Date Logged In:	08/06/16 13:07

Samples Received at:	2.2°C		
Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirmed	Yes		

Analysis	Due	TAT	Expires	Comments
<b>T161842-01 SB-3-4 [Soil] Sampled 08/05/16 07:45 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-02 SB-3-5 [Soil] Sampled 08/05/16 07:50 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-03 SB-3-10 [Soil] Sampled 08/05/16 07:55 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/19/16 07:55	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 07:55	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 07:55	BTEX & Naphthalene only
<b>T161842-04 SB-3-15 [Soil] Sampled 08/05/16 07:58 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-05 SB-3-20 [Soil] Sampled 08/05/16 08:03 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-06 SB-3-25 [Soil] Sampled 08/05/16 08:07 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>

**WORK ORDER**

**T161842**

<b>Client:</b> Environmental Risk Assessors	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> Main Street Property	<b>Project Number:</b> 01-2016-1300-001

Analysis	Due	TAT	Expires	Comments
<b>T161842-07 SB-3-30 [Soil] Sampled 08/05/16 08:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-08 SB-3-32 [Soil] Sampled 08/05/16 08:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/19/16 08:10	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 08:10	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 08:10	BTEX & Naphthalene only
<b>T161842-09 SB-3-32.5 [Soil] Sampled 08/05/16 08:15 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-10 SB-3-35.5 [Soil] Sampled 08/05/16 08:15 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-11 SB-3-36 [Soil] Sampled 08/05/16 08:15 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-12 SB-3-GW [Water] Sampled 08/05/16 09:20 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/12/16 09:20	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 09:20	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 09:20	BTEX & Naphthalene only
<b>T161842-13 SB-5-4.5 [Soil] Sampled 08/05/16 10:30 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/19/16 10:30	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 10:30	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 10:30	BTEX & Naphthalene only
<b>T161842-14 SB-5-8 [Soil] Sampled 08/05/16 10:35 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/19/16 10:35	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 10:35	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 10:35	BTEX & Naphthalene only

**WORK ORDER**

**T161842**

<b>Client:</b> Environmental Risk Assessors	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> Main Street Property	<b>Project Number:</b> 01-2016-1300-001

Analysis	Due	TAT	Expires	Comments
<b>T161842-15 SB-5-10 [Soil] Sampled 08/05/16 10:38 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-16 SB-5-15 [Soil] Sampled 08/05/16 10:40 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-17 SB-5-20 [Soil] Sampled 08/05/16 10:45 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-18 SB-5-25 [Soil] Sampled 08/05/16 10:50 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-19 SB-5-32 [Soil] Sampled 08/05/16 10:55 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-20 SB-5-36 [Soil] Sampled 08/05/16 11:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/19/16 11:00	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 11:00	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 11:00	BTEX & Naphthalene only
<b>T161842-21 SB-5-39 [Soil] Sampled 08/05/16 11:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-22 SB-5-GW [Water] Sampled 08/05/16 11:45 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/12/16 11:45	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 11:45	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 11:45	BTEX & Naphthalene only



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Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

28 July 2016

Lita Freeman  
Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville, CA 95661  
RE: Main Street Property

Enclosed are the results of analyses for samples received by the laboratory on 07/23/16 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh  
Project Manager



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Lake Forest, California 92630  
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949.297.5027 Fax

Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
07/28/16 16:43

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-4-3	T161673-01	Soil	07/22/16 10:10	07/23/16 08:00
SB-4-7.5	T161673-03	Soil	07/22/16 10:25	07/23/16 08:00
SB-4-GW	T161673-09	Water	07/22/16 12:00	07/23/16 08:00

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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949.297.5027 Fax

Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
07/28/16 16:43

**DETECTIONS SUMMARY**

**Sample ID:** SB-4-3

**Laboratory ID:** T161673-01

No Results Detected

**Sample ID:** SB-4-7.5

**Laboratory ID:** T161673-03

No Results Detected

**Sample ID:** SB-4-GW

**Laboratory ID:** T161673-09

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager





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 Lake Forest, California 92630  
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Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 07/28/16 16:43
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**SB-4-3**  
**T161673-01 (Soil)**

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

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6072529	07/25/16	07/26/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		95.7 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6072545	07/25/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		71.1 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6072528	07/25/16	07/25/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		112 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	95.7-135		"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 07/28/16 16:43
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**SB-4-7.5**  
**T161673-03 (Soil)**

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

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6072529	07/25/16	07/26/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		56.3 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6072545	07/25/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		76.7 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6072528	07/25/16	07/26/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		111 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	95.7-135		"	"	"	"	

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Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 07/28/16 16:43
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**SB-4-GW**  
**T161673-09 (Water)**

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

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	50	ug/l	1	6072536	07/25/16	07/26/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		122 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	0.50	mg/l	1	6072547	07/25/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		86.0 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	1.0	ug/l	1	6072535	07/25/16	07/25/16	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: Toluene-d8		110 %	88.8-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		142 %	81.1-136		"	"	"	"	S-GC

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Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 07/28/16 16:43
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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6072529 - EPA 5030 GC**

<b>Blank (6072529-BLK1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	ND	500	ug/kg							
Surrogate: 4-Bromofluorobenzene	105		"	100		105	65-135			
<b>LCS (6072529-BS1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	11100	500	ug/kg	10900		102	75-125			
Surrogate: 4-Bromofluorobenzene	83.7		"	100		83.7	65-135			
<b>LCS Dup (6072529-BSD1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	10400	500	ug/kg	11000		94.1	75-125	7.29	20	
Surrogate: 4-Bromofluorobenzene	69.6		"	100		69.6	65-135			

**Batch 6072536 - EPA 5030 GC**

<b>Blank (6072536-BLK1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	107		"	100		107	65-135			
<b>LCS (6072536-BS1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	5750	50	ug/l	5500		105	75-125			
Surrogate: 4-Bromofluorobenzene	98.6		"	100		98.6	65-135			
<b>LCS Dup (6072536-BSD1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	6000	50	ug/l	5500		109	75-125	4.16	20	
Surrogate: 4-Bromofluorobenzene	86.5		"	100		86.5	65-135			

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Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 07/28/16 16:43
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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6072545 - EPA 3550B GC**

<b>Blank (6072545-BLK1)</b>		Prepared: 07/25/16 Analyzed: 07/27/16								
Stoddard Solvent	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	80.7		"	99.1		81.4	65-135			

<b>LCS (6072545-BS1)</b>		Prepared: 07/25/16 Analyzed: 07/27/16								
C13-C28 (DRO)	470	10	mg/kg	498		94.2	75-125			
Surrogate: <i>p</i> -Terphenyl	94.0		"	99.5		94.5	65-135			

<b>Matrix Spike (6072545-MS1)</b>		<b>Source: T161613-09</b>		Prepared: 07/25/16 Analyzed: 07/27/16						
C13-C28 (DRO)	440	10	mg/kg	492	ND	90.0	75-125			
Surrogate: <i>p</i> -Terphenyl	78.6		"	98.4		79.9	65-135			

<b>Matrix Spike Dup (6072545-MSD1)</b>		<b>Source: T161613-09</b>		Prepared: 07/25/16 Analyzed: 07/27/16						
C13-C28 (DRO)	480	10	mg/kg	494	ND	96.8	75-125	7.60	20	
Surrogate: <i>p</i> -Terphenyl	80.3		"	98.7		81.3	65-135			

**Batch 6072547 - EPA 3510C GC**

<b>Blank (6072547-BLK1)</b>		Prepared: 07/25/16 Analyzed: 07/27/16								
Stoddard Solvent	ND	0.50	mg/l							
C13-C28 (DRO)	ND	0.50	"							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: <i>p</i> -Terphenyl	3.23		"	4.00		80.7	65-135			

<b>LCS (6072547-BS1)</b>		Prepared: 07/25/16 Analyzed: 07/27/16								
C13-C28 (DRO)	17.3	0.50	mg/l	20.0		86.7	75-125			
Surrogate: <i>p</i> -Terphenyl	3.59		"	4.00		89.8	65-135			

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Rose Fasheh, Project Manager



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Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 07/28/16 16:43
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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6072547 - EPA 3510C GC**

**LCS Dup (6072547-BSD1)**

Prepared: 07/25/16 Analyzed: 07/27/16

C13-C28 (DRO)	17.2	0.50	mg/l	20.0		85.8	75-125	0.998	20	
Surrogate: <i>p</i> -Terphenyl	3.39		"	4.00		84.8	65-135			

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Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 07/28/16 16:43
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**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 6072528 - EPA 5030 GCMS**

Blank (6072528-BLK1)										Prepared & Analyzed: 07/25/16
Naphthalene	ND	5.0	ug/kg							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Surrogate: Toluene-d8	44.8		"	39.8		112	85.5-116			
Surrogate: 4-Bromofluorobenzene	43.5		"	39.8		109	81.2-123			
Surrogate: Dibromofluoromethane	37.8		"	39.8		94.9	95.7-135			S-GC

LCS (6072528-BS1)										Prepared & Analyzed: 07/25/16
Benzene	85.4	5.0	ug/kg	99.4		86.0	75-125			
Toluene	91.8	5.0	"	99.4		92.4	75-125			
Surrogate: Toluene-d8	41.0		"	39.8		103	85.5-116			
Surrogate: 4-Bromofluorobenzene	43.1		"	39.8		108	81.2-123			
Surrogate: Dibromofluoromethane	44.9		"	39.8		113	95.7-135			

LCS Dup (6072528-BSD1)										Prepared & Analyzed: 07/25/16
Benzene	83.7	5.0	ug/kg	99.6		84.0	75-125	2.04	20	
Toluene	91.9	5.0	"	99.6		92.2	75-125	0.0365	20	
Surrogate: Toluene-d8	40.3		"	39.8		101	85.5-116			
Surrogate: 4-Bromofluorobenzene	43.9		"	39.8		110	81.2-123			
Surrogate: Dibromofluoromethane	45.9		"	39.8		115	95.7-135			

**Batch 6072535 - EPA 5030 GCMS**

Blank (6072535-BLK1)										Prepared & Analyzed: 07/25/16
Naphthalene	ND	1.0	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Surrogate: Toluene-d8	8.52		"	8.00		106	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.41		"	8.00		92.6	83.5-119			
Surrogate: Dibromofluoromethane	10.7		"	8.00		134	81.1-136			

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Rose Fasheh, Project Manager



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Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 07/28/16 16:43
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**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 6072535 - EPA 5030 GCMS**

**LCS (6072535-BS1)**

Prepared & Analyzed: 07/25/16

Benzene	21.2	0.50	ug/l	20.0		106	75-125			
Toluene	17.8	0.50	"	20.0		89.0	75-125			
Surrogate: Toluene-d8	8.08		"	8.00		101	88.8-117			
Surrogate: 4-Bromofluorobenzene	6.98		"	8.00		87.2	83.5-119			
Surrogate: Dibromofluoromethane	12.6		"	8.00		158	81.1-136			S-GC

**LCS Dup (6072535-BSD1)**

Prepared & Analyzed: 07/25/16

Benzene	22.6	0.50	ug/l	20.0		113	75-125	6.30	20	
Toluene	19.1	0.50	"	20.0		95.6	75-125	7.20	20	
Surrogate: Toluene-d8	8.01		"	8.00		100	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.21		"	8.00		90.1	83.5-119			
Surrogate: Dibromofluoromethane	12.0		"	8.00		150	81.1-136			S-GC

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Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
07/28/16 16:43

### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
- 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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Rose Fasheh, Project Manager

**Chain of Custody Record**

Client: ENVIRONMENTAL RISK ASSESSORS  
 Address: 1420 E. ROSEVILLE PKWY #140-262, ROSEVILLE, CA 95661  
 Phone: 916 677 9897 Fax: \_\_\_\_\_  
 Project Manager: LITA FREEMAN

Date: 7-22-16 Page: 1 Of \_\_\_\_\_  
 Project Name: Main Street Property  
 Collector: L. FREEMAN Client Project #: DI-2016-1300-001  
 Batch #: T161673 EDF #: \_\_\_\_\_

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 - Naphthalene, BTEX	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel) motor oil	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	TPH Stocked Solvent	Hold	Laboratory ID #	Comments/Preservative	Total # of containers
SB-4-3	7-22-16	1010	Soil	tube	X					X	X				X	X	01		1
SB-4-5	7-22-16	1020	Soil	tube						X	X					X	02		1
SB-4-7.5	7-22-16	1025	Soil	tube	X					X	X				X	X	03		1
SB-4-8	7-22-16	1025	Soil	tube						X	X					X	04		1
SB-4-10	7-22-16	1040	Soil	tube						X	X					X	05		1
SB-4-15	7-22-16	1050	Soil	tube						X	X					X	06		1
SB-4-20	7-22-16	1100	Soil	tube						X	X					X	07		1
SB-4-25	7-22-16	1110	Soil	tube						X	X					X	08		1
SB-4-GW	7-22-16	1200	GW	VOAS	X					X	X				X		09		9

Relinquished by: (signature) <i>Lita Freeman</i>	Date / Time 7-22-16 18:30	Received by: (signature) <i>[Signature]</i>	Date / Time 7-22-16 18:30	Total # of containers	17	Notes Report to: lita.freeman@gmail.com
Relinquished by: (signature) GSO	Date / Time 7/23/16 8:00	Received by: (signature) <i>[Signature]</i>	Date / Time 7/23/16 8:00	Chain of Custody seals Y/N/NA		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA		
				Received good condition/cold	4,2	
				Turn around time:	5 day	

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

## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T161673  
 Client Name: Environmental Risk Assessment Project: Main Street property  
 Delivered by:  Client  SunStar Courier  GSO  FedEx  Other  
 If Courier, Received by: [Signature] Date/Time Courier Received: \_\_\_\_\_  
 Lab Received by: Kyle Date/Time Lab Received: 7/23/16 8:00  
 Total number of coolers received: 1

Temperature: Cooler #1	4.4 °C +/- the CF (- 0.2°C) =	4.2 °C	corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =		°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		Within criteria?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If NO:</b>			
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No →	<b>Complete Non-Conformance Sheet</b>
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No →	<b>Complete Non-Conformance Sheet</b>

Custody seals intact on cooler/sample  Yes  No\*  N/A  
 Sample containers intact  Yes  No\*  
 Sample labels match Chain of Custody IDs  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: GM

**Comments:**  
 \_\_\_\_\_  
 \_\_\_\_\_

**WORK ORDER**

**T161673**

<b>Client:</b> Environmental Risk Assessors	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> Main Street Property	<b>Project Number:</b> 01-2016-1300-001

**Report To:**  
 Environmental Risk Assessors  
 Lita Freeman  
 1420 E Roseville Pkwy  
 Roseville, CA 95661

Date Due:	07/28/16 17:00 (3 day TAT)		
Received By:	Kyler Mondello	Date Received:	07/23/16 08:00
Logged In By:	Kyler Mondello	Date Logged In:	07/23/16 11:41

Samples Received at:	4.2°C		
Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirmed	Yes		

Analysis	Due	TAT	Expires	Comments
<b>T161673-01 SB-4-3 [Soil] Sampled 07/22/16 10:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	07/28/16 15:00	3	08/05/16 10:10	+Stoddard solvent
8015 m Gas Purge	07/28/16 15:00	3	08/05/16 10:10	
8260 BTEX/OXY	07/28/16 15:00	3	08/05/16 10:10	BTEX & Naphthalene only
<b>T161673-02 SB-4-5 [Soil] Sampled 07/22/16 10:20 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T161673-03 SB-4-7.5 [Soil] Sampled 07/22/16 10:25 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	07/28/16 15:00	3	08/05/16 10:25	+Stoddard solvent
8015 m Gas Purge	07/28/16 15:00	3	08/05/16 10:25	
8260 BTEX/OXY	07/28/16 15:00	3	08/05/16 10:25	BTEX & Naphthalene only
<b>T161673-04 SB-4-8 [Soil] Sampled 07/22/16 10:25 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T161673-05 SB-4-10 [Soil] Sampled 07/22/16 10:40 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T161673-06 SB-4-15 [Soil] Sampled 07/22/16 10:50 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				

**WORK ORDER**

**T161673**

<b>Client:</b> Environmental Risk Assessors	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> Main Street Property	<b>Project Number:</b> 01-2016-1300-001

Analysis	Due	TAT	Expires	Comments
<b>T161673-07 SB-4-20 [Soil] Sampled 07/22/16 11:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161673-08 SB-4-25 [Soil] Sampled 07/22/16 11:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161673-09 SB-4-GW [Soil] Sampled 07/22/16 12:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	07/28/16 15:00	3	08/05/16 12:00	+Stoddard solvent
8015 m Gas Purge	07/28/16 15:00	3	08/05/16 12:00	
8260 BTEX/OXY	07/28/16 15:00	3	08/05/16 12:00	BTEX & Naphthalene only



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1607A34 **Amended:** 08/01/2016

**Report Created for:** Environmental Risk Assessors

1420 East Roseville Parkway, Suite 140-262  
Roseville, CA 95661

**Project Contact:** Lita Freeman

**Project P.O.:**

**Project Name:** 01-1300-2016-001; Main St. Property

**Project Received:** 07/22/2016

Analytical Report reviewed & approved for release on 07/29/2016 by:

Angela Rydelius,  
Laboratory Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** Environmental Risk Assessors  
**Project:** 01-1300-2016-001; Main St. Property  
**WorkOrder:** 1607A34

### Glossary Abbreviation

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

### Quality Control Qualifiers

F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.



## Analytical Report

**Client:** Environmental Risk Assessors  
**Date Received:** 7/22/16 18:00  
**Date Prepared:** 7/26/16  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**Extraction Method:** ASTM D 1946-90  
**Analytical Method:** ASTM D 1946-90  
**Unit:** %

### Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-SG	1607A34-001A	SoilGas	07/22/2016 15:00	GC26	124421

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.73	23.38	AK

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	07/26/2016 08:39

 Angela Rydelius, Lab Manager





# Analytical Report

**Client:** Environmental Risk Assessors  
**Date Received:** 7/22/16 18:00  
**Date Prepared:** 7/27/16  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**Extraction Method:** ASTM D 1946-90  
**Analytical Method:** ASTM D 1946-90  
**Unit:** uL/L

## Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-SG	1607A34-001A	SoilGas	07/22/2016 15:00	GC26	124423

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.73	23.38	AK

Analytes	Result	RL	DF	Date Analyzed
Methane	9.0	2.0	1	07/27/2016 10:53

 Angela Rydelius, Lab Manager



## Analytical Report

**Client:** Environmental Risk Assessors  
**Date Received:** 7/22/16 18:00  
**Date Prepared:** 7/27/16  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**Extraction Method:** ASTM D 1946-90  
**Analytical Method:** ASTM D 1946-90  
**Unit:** %

### Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-SG	1607A34-001A	SoilGas	07/22/2016 15:00	GC26	124423

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.73	23.38	AK

Analytes	Result	RL	DF	Date Analyzed
Methane	0.00090	0.00020	1	07/27/2016 10:53

Angela Rydelius, Lab Manager



## Analytical Report

**Client:** Environmental Risk Assessors  
**Date Received:** 7/22/16 18:00  
**Date Prepared:** 7/27/16  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-SG	1607A34-001A	SoilGas	07/22/2016 15:00	GC24	124413

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.73	23.38	AK

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	ND	11	2	07/27/2016 19:50
Surrogates	REC (%)	Limits		
1,2-DCA-d4	111	70-130		07/27/2016 19:50
Toluene-d8	106	70-130		07/27/2016 19:50
4-BFB	100	70-130		07/27/2016 19:50

 Angela Rydelius, Lab Manager



## Analytical Report

**Client:** Environmental Risk Assessors  
**Date Received:** 7/22/16 18:00  
**Date Prepared:** 7/27/16  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µL/L

### Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-SG	1607A34-001A	SoilGas	07/22/2016 15:00	GC24	124413

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.73	23.38	AK

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	ND	0.0020	2	07/27/2016 19:50
Surrogates	REC (%)	Limits		
1,2-DCA-d4	111	70-130		07/27/2016 19:50
Toluene-d8	106	70-130		07/27/2016 19:50
4-BFB	100	70-130		07/27/2016 19:50

 Angela Rydelius, Lab Manager



## Quality Control Report

**Client:** Environmental Risk Assessors  
**Date Prepared:** 7/26/16  
**Date Analyzed:** 7/26/16  
**Instrument:** GC26  
**Matrix:** Soilgas  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**BatchID:** 124421  
**Extraction Method:** ASTM D 1946-90  
**Analytical Method:** ASTM D 1946-90  
**Unit:** %  
**Sample ID:** MB/LCS-124421

---

### QC Summary Report for ASTM D1946-90

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Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Helium	ND	0.0733	0.025	0.10	-	73	60-140

---

QA/QC Officer



## Quality Control Report

**Client:** Environmental Risk Assessors  
**Date Prepared:** 7/27/16  
**Date Analyzed:** 7/27/16  
**Instrument:** GC26  
**Matrix:** SoilGas  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**BatchID:** 124423  
**Extraction Method:** ASTM D 1946-90  
**Analytical Method:** ASTM D 1946-90  
**Unit:** uL/L  
**Sample ID:** MB/LCS-124423

### QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Methane	ND	112	1.0	100	-	112	70-130

  
 QA/QC Officer



## Quality Control Report


**Client:** Environmental Risk Assessors  
**Date Prepared:** 7/27/16  
**Date Analyzed:** 7/27/16  
**Instrument:** GC24  
**Matrix:** SoilGas  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**BatchID:** 124413  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>  
**Sample ID:** MB/LCS-124413

### QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	46.2	30	60	-	77	60-140
Acrolein	ND	51.6	2.9	58.25	-	89	60-140
Acrylonitrile	ND	54.2	0.55	55	-	99	60-140
tert-Amyl methyl ether (TAME)	ND	102	1.0	105	-	97	60-140
Benzene	ND	66.8	0.80	80	-	83	60-140
Benzyl chloride	ND	169	1.3	132.5	-	128	60-140
Bromodichloromethane	ND	171	1.8	175	-	98	60-140
Bromoform	ND	293	2.6	262.5	-	112	60-140
Bromomethane	ND	101	1.0	97.5	-	103	60-140
1,3-Butadiene	ND	46.6	0.55	55	-	85	60-140
2-Butanone (MEK)	ND	71.6	38	75	-	95	60-140
t-Butyl alcohol (TBA)	ND	66.8	16	77.5	-	86	60-140
Carbon Disulfide	ND	75.3	0.80	80	-	94	60-140
Carbon Tetrachloride	ND	94.3	1.6	160	-	59, F2	60-140
Chlorobenzene	ND	116	1.2	117.5	-	99	60-140
Chloroethane	ND	55.4	0.65	67.5	-	82	60-140
Chloroform	ND	106	1.2	122.5	-	86	60-140
Chloromethane	ND	42.6	0.50	52.5	-	81	60-140
Cyclohexane	ND	77.2	9.0	87.5	-	88	60-140
Dibromochloromethane	ND	237	2.2	217.5	-	109	60-140
1,2-Dibromo-3-chloropropane	ND	284	0.060	245	-	116	60-140
1,2-Dibromoethane (EDB)	ND	213	2.0	195	-	109	60-140
1,2-Dichlorobenzene	ND	166	1.5	152.5	-	109	60-140
1,3-Dichlorobenzene	ND	162	1.5	152.5	-	107	60-140
1,4-Dichlorobenzene	ND	168	1.5	152.5	-	110	60-140
Dichlorodifluoromethane	ND	113	1.2	125	-	90	60-140
1,1-Dichloroethane	ND	94.9	1.0	102.5	-	93	60-140
1,2-Dichloroethane (1,2-DCA)	ND	90.8	1.0	102.5	-	89	60-140
1,1-Dichloroethene	ND	107	1.0	100	-	107	60-140
cis-1,2-Dichloroethene	ND	91.8	1.0	100	-	92	60-140
trans-1,2-Dichloroethene	ND	83.9	1.0	100	-	84	60-140
1,2-Dichloropropane	ND	102	1.2	117.5	-	87	60-140
cis-1,3-Dichloropropene	ND	140	1.2	115	-	121	60-140
trans-1,3-Dichloropropene	ND	128	1.2	115	-	111	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	156	1.8	177.5	-	88	60-140
Diisopropyl ether (DIPE)	ND	93.2	1.0	105	-	89	60-140
1,4-Dioxane	ND	99.0	0.90	92.5	-	107	60-140

(Cont.)

 QA/QC Officer



## Quality Control Report


**Client:** Environmental Risk Assessors  
**Date Prepared:** 7/27/16  
**Date Analyzed:** 7/27/16  
**Instrument:** GC24  
**Matrix:** SoilGas  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**BatchID:** 124413  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>  
**Sample ID:** MB/LCS-124413

### QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethanol	ND	ND	48	47.5	-	80	60-140
Ethyl acetate	ND	92.2	0.90	92.5	-	100	60-140
Ethyl tert-butyl ether (ETBE)	ND	98.9	1.0	105	-	94	60-140
Ethylbenzene	ND	115	1.1	110	-	104	60-140
4-Ethyltoluene	ND	137	1.2	125	-	109	60-140
Freon 113	ND	173	2.0	195	-	89	60-140
Heptane	ND	90.3	10	105	-	86	60-140
Hexachlorobutadiene	ND	312	2.7	270	-	116	60-140
Hexane	ND	76.0	9.0	90	-	84	60-140
2-Hexanone	ND	133	1.0	105	-	127	60-140
Isopropyl Alcohol	ND	58.5	25	62.5	-	94	60-140
4-Methyl-2-pentanone (MIBK)	ND	116	1.0	105	-	110	60-140
Methyl-t-butyl ether (MTBE)	ND	89.0	0.90	92.5	-	96	60-140
Methylene chloride	ND	86.1	4.4	87.5	-	98	60-140
Methyl methacrylate	ND	102	1.0	104	-	98	60-140
Naphthalene	ND	316	2.6	265	-	119	60-140
Propene	ND	ND	44	42.5	-	92	60-140
Styrene	ND	113	1.1	107.5	-	105	60-140
1,1,1,2-Tetrachloroethane	ND	169	1.8	175	-	97	60-140
1,1,2,2-Tetrachloroethane	ND	175	1.8	175	-	100	60-140
Tetrachloroethene	ND	189	1.7	172	-	110	60-140
Tetrahydrofuran	ND	65.8	1.5	75	-	88	60-140
Toluene	ND	93.0	0.95	95	-	98	60-140
1,2,4-Trichlorobenzene	ND	227	1.9	187.5	-	121	60-140
1,1,1-Trichloroethane	ND	160	1.4	137.5	-	116	60-140
1,1,2-Trichloroethane	ND	135	1.4	137.5	-	98	60-140
Trichloroethene	ND	121	1.4	137.5	-	88	60-140
Trichlorofluoromethane	ND	140	1.4	142.5	-	98	60-140
1,2,4-Trimethylbenzene	ND	137	1.2	125	-	110	60-140
1,3,5-Trimethylbenzene	ND	133	1.2	125	-	106	60-140
Vinyl Acetate	ND	107	9.0	90	-	119	60-140
Vinyl Chloride	ND	48.6	0.65	65	-	75	60-140
Xylenes, Total	ND	347	3.3	330	-	105	60-140

(Cont.)

 QA/QC Officer





## Quality Control Report

<b>Client:</b> Environmental Risk Assessors	<b>WorkOrder:</b> 1607A34
<b>Date Prepared:</b> 7/27/16	<b>BatchID:</b> 124413
<b>Date Analyzed:</b> 7/27/16	<b>Extraction Method:</b> TO15
<b>Instrument:</b> GC24	<b>Analytical Method:</b> TO15
<b>Matrix:</b> SoilGas	<b>Unit:</b> µg/m <sup>3</sup>
<b>Project:</b> 01-1300-2016-001; Main St. Property	<b>Sample ID:</b> MB/LCS-124413

### QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
1,2-DCA-d4	562	506		500	112	101	70-130
Toluene-d8	541	551		500	108	110	70-130
4-BFB	506	515		500	101	103	70-130

QA/QC Officer

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262



# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1607A34

ClientCode: ERAR

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Lita Freeman  
 Environmental Risk Assessors  
 1420 East Roseville Parkway, Suite 140-262  
 Roseville, CA 95661  
 (916) 677-9897    FAX:

Email: litafreeman@gmail.com  
 cc/3rd Party:  
 PO:  
 ProjectNo: 01-1300-2016-001; Main St. Property

**Bill to:**  
 Accounts Payable  
 Environmental Risk Assessors  
 1420 East Roseville Parkway, Suite 140  
 Roseville, CA 95661

**Requested TAT: 5 days;**  
**Date Received: 07/22/2016**  
**Date Logged: 07/22/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1607A34-001	SB-3-SG	SoilGas	7/22/2016 15:00	<input type="checkbox"/>	A	A	A	A	A	A						

**Test Legend:**

1	HELIUM_LC_SOILGAS(%)	2	LG_SUMMA_SOILGAS	3	PREFD REPORT	4	PRHELIUM SHROUD
5	TO15_Scan-SIM_SOIL(UG/M3)	6	TO15-8260_SOIL(UG/M3)	7		8	
9		10		11		12	

**Prepared by: Jena Alfaro**

The following SampID: 001A contains testgroup TO15He\_SG(UG/M3).

**Comments:**

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



## WORK ORDER SUMMARY

**Client Name:** ENVIRONMENTAL RISK ASSESSORS

**QC Level:** LEVEL 2

**Work Order:** 1607A34

**Project:** 01-1300-2016-001; Main St. Property

**Client Contact:** Lita Freeman

**Date Logged:** 7/22/2016

**Comments:**

**Contact's Email:** litafreeman@gmail.com

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1607A34-001A	SB-3-SG	SoilGas	ASTM D1946-90 (Light Gases) <Methane_4> TO15 w/ Helium	1	1L Summa	<input type="checkbox"/>	7/22/2016 15:00	5 days		<input type="checkbox"/>	
						<input type="checkbox"/>		5 days		<input type="checkbox"/>	

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

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

11007A34



# McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701  
 www.mcccampbell.com / main@mcccampbell.com  
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

## CHAIN OF CUSTODY RECORD

**TURN AROUND TIME:** RUSH  1 DAY  2 DAY  3 DAY  5 DAY   
 GeoTracker EDF  PDF  EDD  EQuIS  10 DAY   
 UST CLEAN UP FUND  ; Claim #

**Report To:** Lita Freeman **Bill To:** Environmental Risk Assessors  
**Company:** Environmental Risk Assessors  
 1420 E. ROSEVILLE PKWY #140-262  
 ROSEVILLE CA 95661 **E-Mail:** litafreeman@gmail.com  
**Tele:** (916) 1677 9897 **Fax:** ( )  
**Project #:** 01-1300-2016-001 **Project Name:** Main St. Property  
**Project Location:** 927 Main Street  
**Sampler Signature:** Lita Freeman

### Analysis Requested

### Helium Shroud SN#

**Other:**  
**Notes:** Please Specify units if different than default: VOCs is reported in ug/m3, fixed gas is reported in uL/L. Leak check default is IPA. Helium Shroud ✓

Field Sample ID (Location)	Collection		Canister SN#	Sample Kit SN#	VOCs by TO-15 (ug/m3)	8010 by TO-15 (ug/m3)	TPH(g) (ug/m3)	LEED (inc. 4PCH, Formaldehyde, CO, Total VOCs)	Fixed Gas: CO2, Methane, Ethane, Ethylene, Acetylene, CO (please circle or indicate in notes) uL/L	Fixed Gas: O2, N2 (please circle) uL/L	Fixed Gas: Propane uL/L	Helium Leak Check (%)	Leak Check (IPA, Norflorane, 1,1-difluoroethane) ug/m3	APH: Aliphatic and/or Aromatic (please circle) ug/m3	Other:	Matrix		Canister Pressure/ Vacuum	
	Date	Time														Soilgas	Indoor Air	Initial	Final
SB-3-SG	7-22-16	1500	CAN1926-1909	MAN316T-1309	X							X				X		-10	-5

<b>Relinquished By:</b> <i>Lita Freeman</i>	<b>Date:</b> 7-22-16	<b>Time:</b> 1500	<b>Received By:</b> <i>[Signature]</i>
<b>Relinquished By:</b> <i>[Signature]</i>	<b>Date:</b> 7/22	<b>Time:</b> 1800	<b>Received By:</b> <i>[Signature]</i>
<b>Relinquished By:</b>	<b>Date:</b>	<b>Time:</b>	<b>Received By:</b>

Temp (°C): \_\_\_\_\_ Work Order #: \_\_\_\_\_  
 Condition: \_\_\_\_\_  
 Custody Seals Intact?: Yes \_\_\_\_\_ No \_\_\_\_\_ None \_\_\_\_\_  
 Shipped Via: \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **Environmental Risk Assessors**  
 Project Name: **01-1300-2016-001; Main St. Property**  
 WorkOrder No: **1607A34** Matrix: SoilGas  
 Carrier: Benjamin Yslas (MAI Courier)

Date and Time Received: **7/22/2016 18:00**  
 Date Logged: **7/22/2016**  
 Received by: **Jena Alfaro**  
 Logged by: **Jena Alfaro**

#### Chain of Custody (COC) Information

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

#### Sample Receipt Information

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

#### Sample Preservation and Hold Time (HT) Information

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

#### UCMR3 Samples:

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

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 Comments: