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September 10, 2013

Alameda County Department of  
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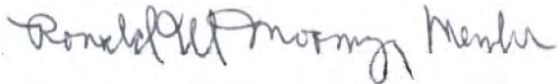
Attention: Mark Detterman

Subject: First Semiannual 2013 Groundwater Monitoring Report  
1355 55<sup>th</sup> Street Emeryville, Ca  
**ACDEH Site No. RO0000046, Geotracker Global ID No. T0600101623**

Ladies and Gentlemen:

Attached please find a copy of the *First Semiannual 2013 Groundwater Monitoring Report* 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,

A handwritten signature in black ink that reads "Ronald W. Mooney Member". The signature is written in a cursive style.

Ronald W. Mooney, Member  
California Syrup & Extract Co. LLC  
PO Box 8305  
Emeryville, CA 94608



September 10, 2013

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

Attention: Mark E. Detterman

Subject: First Semiannual 2013 Groundwater Monitoring Report  
1355 55<sup>th</sup> Street Emeryville, Ca  
**ACDEH Site No. RO0000046, Geotracker Global ID No. T0600101623**

Ladies and Gentlemen:

Gribi Associates is pleased to submit this First Semiannual 2013 Groundwater Monitoring Report on behalf of California Syrup & Extract Company for the underground storage tank (UST) site located at 1355 55<sup>th</sup> Street in Emeryville, California (see Figure 1 and Figure 2). This letter report documents the monitoring and sampling of four site wells on June 28 and July 3, 2013.

#### **DESCRIPTION OF SAMPLING ACTIVITIES**

1. Gribi Associates personnel conducted groundwater monitoring and sampling activities for wells MW-1, MW-2, and MW-4 on June 28, 2013; well MW-3 was inaccessible on June 28, so this well was sampled on July 3, 2013.
2. Groundwater monitoring and sampling was conducted in accordance with California LUFT Field Manual, including the following:
  - a. measuring static water levels;
  - b. checking for presence of free-product;
  - c. and purging of approximately three well volumes while recording of temperature, pH, conductivity, and clarity.
3. Collected groundwater samples were placed in an ice-chilled cooler and submitted to a state-certified laboratory for analyses.
4. Copies of groundwater sampling field data sheets are provided as Attachment A.

## RESULTS OF GROUNDWATER MONITORING

### Hydrologic Conditions

1. Groundwater depths ranged from approximately 6.33 feet (MW-2) to 9.36 feet (MW-4).
2. Groundwater elevations ranged from 16.33 feet above means sea level (msl) (MW-3) to 20.35 feet msl (MW-1).
3. Groundwater flow direction is generally to the southwest at a gradient of approximately 0.040 ft/ft.
4. Groundwater elevations are shown on Figure 3.

### Laboratory Analytical Results

1. Groundwater samples from the two site wells were analyzed for the following parameters with standard method turn around time on results:
  - a. USEPA M8015C Total Petroleum Hydrocarbons as Motor Oil (TPH-MO)
  - b. USEPA M8015C Total Petroleum Hydrocarbons as Diesel (TPH-D)
  - c. USEPA M8015C Total Petroleum Hydrocarbons as Gasoline (TPH-G)
  - d. USEPA 8021B Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
  - e. USEPA 8021B Methyl-tert-butyl Ether (MTBE)
2. Groundwater hydrocarbon results for this monitoring event are summarized in Table 1.
3. Groundwater hydrocarbon results for this monitoring event are summarized on Figure 4.
4. The laboratory analytical data report and chain-of custody are provided as Attachment B.

## CONCLUSIONS

1. Detectable concentrations of hydrocarbons were reported only in well MW-2, and not in upgradient monitoring well MW-1 or downgradient wells MW-3 and MW-4. Thus, the groundwater hydrocarbon impacts associated with this site, which originated from the former gasoline UST (UST No. 5 on report figures) immediately adjacent to MW-2, have not migrated significantly and, hence, are limited in lateral extent.
2. The concentrations of BTEX constituents in MW-2 are low relative to the TPH-G concentration. Thus, significant natural attenuation has occurred over the many decades since UST No. 5 was last used.
3. Given the low concentrations of BTEX constituents and the very limited lateral extent of hydrocarbon impacts, it is likely that this site meets low-threat closure criteria using both the Regional Water Board's 1996 supplemental guidance criteria for low risk case closure and State Water Board Resolution 92-49.

Alameda County Department of  
Environmental Health  
September 10, 2013  
Page 3

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

Very truly yours,



Matthew A. Rosman  
Project Engineer



James E. Gribi  
Professional Geologist  
California No. 5843



Enclosure

c: Mr. Ron Mooney, California Syrup & Extract

## **TABLES**

**Table 1**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**  
California Syrup & Extract Company UST Site

Sample ID	Sample Date	DTW	GW Elev.	Concentration, micrograms per liter (ug/L)							
				TPH-D	TPH-MO	TPH-G	B	T	E	X	MTBE
<b>MW-1</b>	9/24/1994	8.01	18.69	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-
<26.70>	12/29/1999	5.77	20.93	<50	<100	<b>120</b>	<0.5	<0.5	<0.5	<b>0.84</b>	<0.050
	3/23/2000	4.79	21.91	<50	<100	<b>97</b>	<b>0.58</b>	<0.5	<0.5	<b>21</b>	<0.005
	6/28/2000	8.90	17.80	<50	<100	<b>110</b>	<b>28</b>	<b>2.2</b>	<b>8.7</b>	<b>17</b>	<0.005
	10/04/2000	8.36	18.34	<50	<100	<50	<0.5	<0.5	<0.5	<b>1.5</b>	<0.005
	9/25/2009	6.89	19.81	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	-
	2/18/2010	5.74	20.96	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0
	7/26/2010	6.92	19.78	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0
	2/14/2011	6.76	19.94	<50	<100	<50	<1.0	<b>4.1</b>	<1.0	<2.0	<4.0
	8/03/2011	7.08	19.62	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0
	1/30/2012	7.57	19.13	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0
	8/16/2012	6.49	20.21	<50	<100	<50	<0.50	<0.50	<0.50	<1.0	<1.0
	12/03/2012	4.26	22.44	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0
	06/28/2013	6.35	20.35	<500	<500	<50	<1.0	<1.0	<1.0	<2.0	<4.0
<b>MW-2</b>	9/24/1994	7.88	18.29	<b>630</b>	<0.50	<b>970</b>	<b>57</b>	<b>3.4</b>	<b>3.6</b>	<b>3.0</b>	-
<26.17>	12/29/1999	7.29	18.88	<0.050	<0.100	<b>8,800</b>	<b>430</b>	<b>370</b>	<b>250</b>	<b>410</b>	<1.0
	3/23/2000	6.03	20.14	<0.050	<0.100	<b>10,000</b>	<b>590</b>	<b>90</b>	<b>210</b>	<b>640</b>	<1.0
	6/28/2000	7.11	19.06	<0.050	<0.100	<b>3,600</b>	<b>310</b>	<b>19</b>	<b>94</b>	<b>100</b>	<b>120</b>
	10/4/2000	7.64	18.53	<0.050	<0.100	<b>4,100</b>	<b>280</b>	<b>15</b>	<b>58</b>	<b>81</b>	<b>100</b>
	9/25/2009	7.55	18.62	<b>8,100</b>	<b>2,900</b>	<b>59,000</b>	<b>58</b>	<b>69</b>	<b>170</b>	<b>160</b>	-
	2/18/2010	5.96	20.21	<b>610</b>	<100	<b>1,400</b>	<b>12</b>	<b>5.4</b>	<1.0	<2.0	<b>97</b>
	7/26/2010	6.90	19.27	<b>560</b>	<100	<b>3,700</b>	<b>40</b>	<b>7.5</b>	<1.0	<2.0	<b>100</b>
	2/14/2011	6.99	19.18	<b>1,200</b>	<100	<b>2,400</b>	<b>17</b>	<b>11</b>	<b>4.2</b>	<b>4.4</b>	<b>49</b>
	8/03/2011	6.63	19.54	<b>1,500</b>	<b>860</b>	<b>2,100</b>	<b>6.2</b>	<b>15</b>	<1.0	<2.0	<b>200</b>
	1/30/2012	7.01	19.16	<b>1,100</b>	<b>220</b>	<b>2,400</b>	<b>80</b>	<b>31</b>	<1.0	<2.0	<b>200</b>
	8/16/2012	6.67	19.50	<b>750</b>	<100	<b>4,100</b>	<b>110</b>	<b>9.9</b>	<b>4.0</b>	<b>7.4</b>	<b>26</b>
	12/03/2012	4.35	21.82	<b>1,500</b>	<100	<b>910</b>	<b>9.9</b>	<b>15</b>	<b>1.1</b>	<b>1.4</b>	<b>110</b>
	06/28/2013	6.33	19.84	<b>1,200</b>	<500	<b>1,500</b>	<b>65</b>	<b>15</b>	<b>1.8</b>	<b>4.8</b>	<b>40</b>

**Table 1**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**  
 California Syrup & Extract Company UST Site

Sample ID	Sample Date	DTW	GW Elev.	Concentration, micrograms per liter (ug/L)							
				TPH-D	TPH-MO	TPH-G	B	T	E	X	MTBE
MW-3	8/16/2012	9.04	15.94	<50	<100	<50	<0.50	<0.50	<0.50	<1.0	1.2
<24.98>	12/03/2012	6.28	18.70	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0
	07/03/2013	8.65	16.33	<500	<500	<50	<1.0	<1.0	<1.0	<2.0	<4.0
MW-4	8/16/2012	9.34	16.71	<50	<100	<50	<0.50	<0.50	<0.50	<1.0	<1.0
<26.05>	12/03/2012	7.33	18.72	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0
	06/28/2013	9.36	16.69	<500	<500	<50	<1.0	<1.0	<1.0	<2.0	<4.0

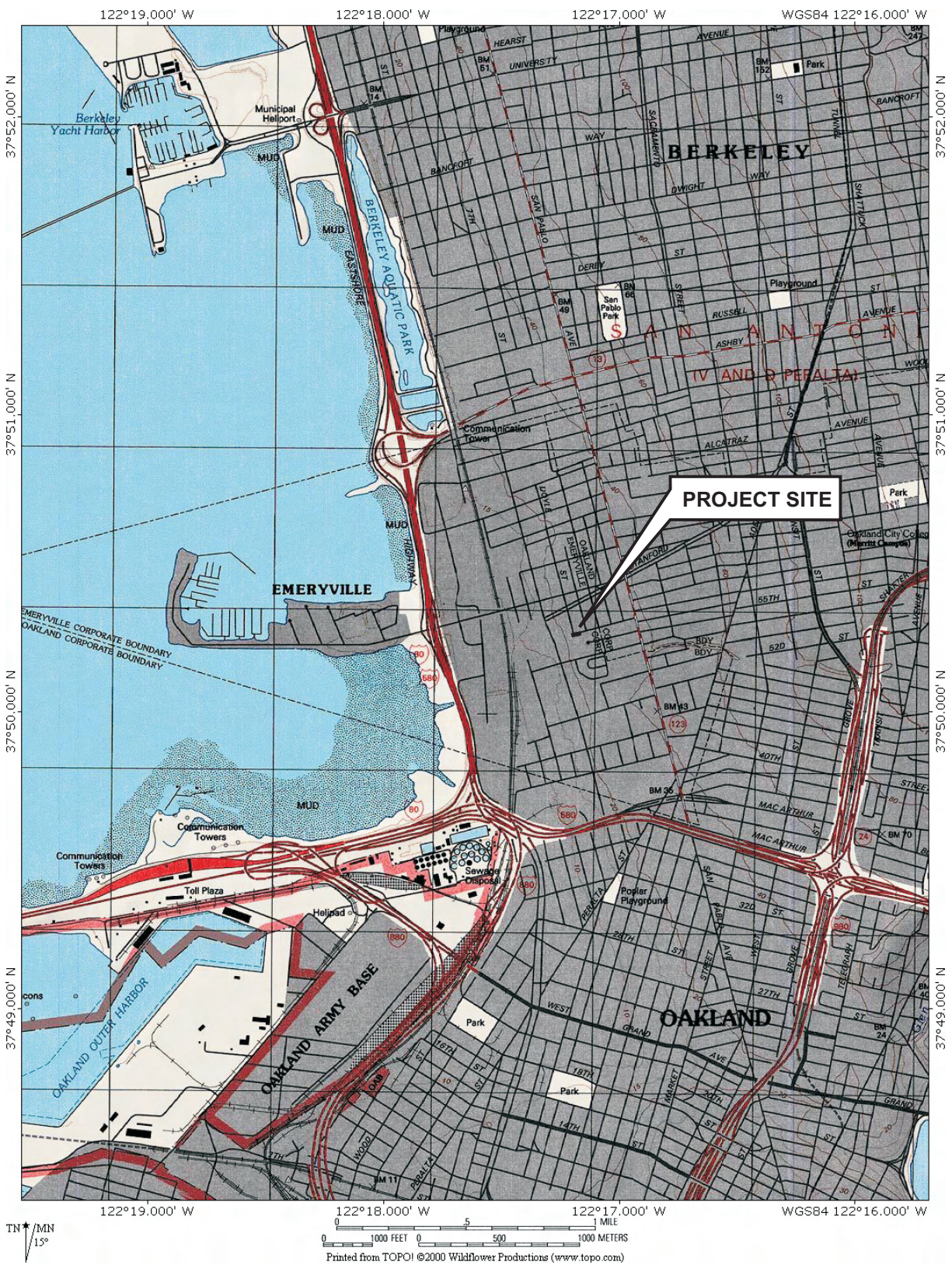
**Table Notes:**

DTW = Depth to Water, in feet below top of casing.  
 GW Elev. = Groundwater mean sea level elevation.  
 TPH-D = Total Petroleum Hydrocarbons as Diesel  
 TPH-MO = Total Petroleum Hydrocarbons as Motor Oil  
 TPH-G = Total Petroleum Hydrocarbons as Gasoline  
 B = Benzene, T = Toluene, E = Ethylbenzene, X = Xylenes

MTBE = Methyl-tert-Butyl Ether  
 <50 = Not detected above the expressed value.  
 – = Not analyzed or not available.  
 ALL ND = No detectable concentrations of individual analytes.  
 <38.15> = Top of casing mean sea level (msl) elevation

## FIGURES




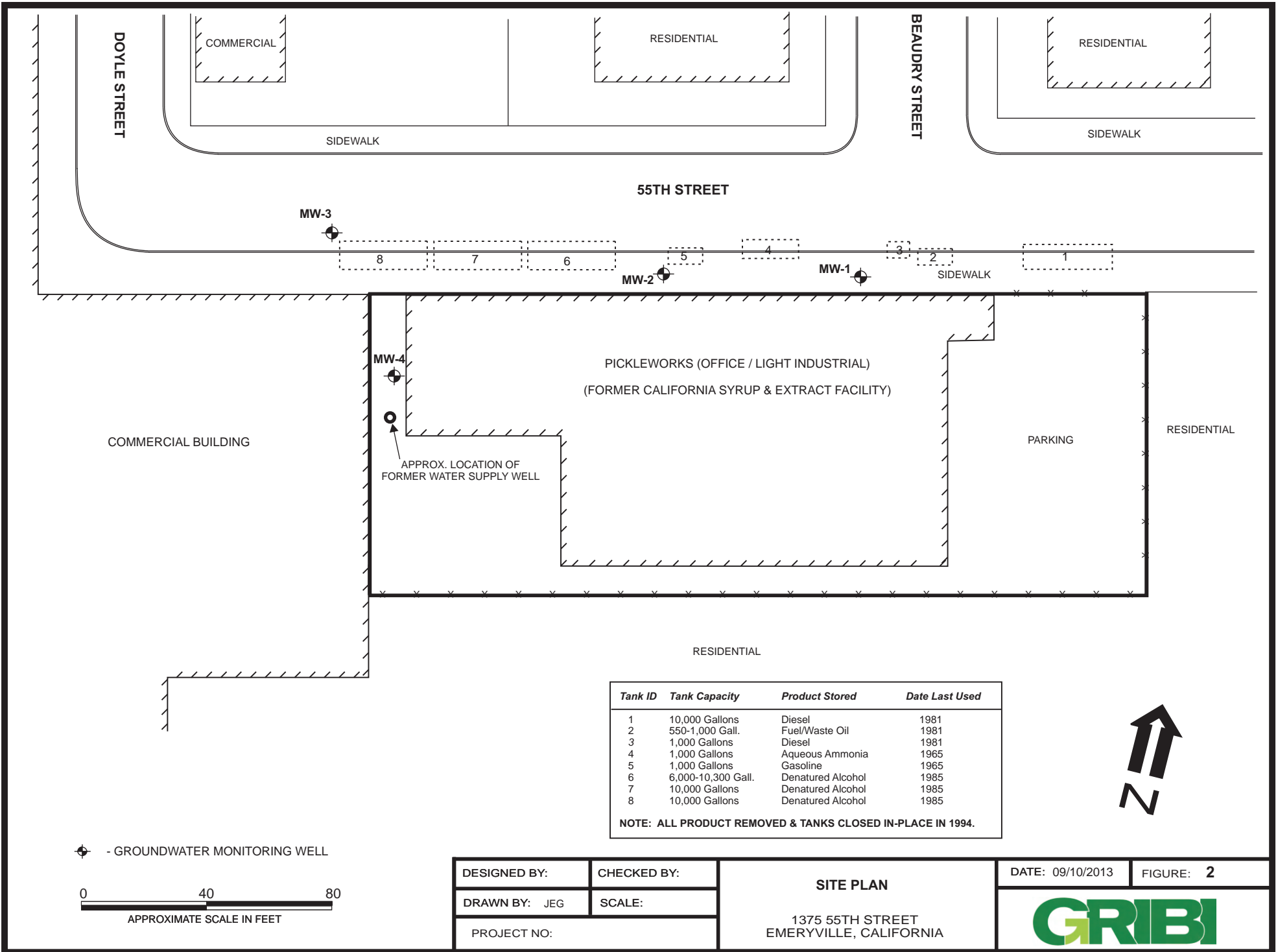


DESIGNED BY:	CHECKED BY:
DRAWN BY: JG	SCALE:
PROJECT NO:	

**SITE VICINITY MAP**

CALIFORNIA SYRUP AND EXTRACT  
1375 55TH STREET  
EMERYVILLE, CALIFORNIA

DATE: 09/10/2010	FIGURE: 1
	

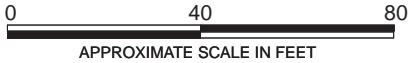


Tank ID	Tank Capacity	Product Stored	Date Last Used
1	10,000 Gallons	Diesel	1981
2	550-1,000 Gall.	Fuel/Waste Oil	1981
3	1,000 Gallons	Diesel	1981
4	1,000 Gallons	Aqueous Ammonia	1965
5	1,000 Gallons	Gasoline	1965
6	6,000-10,300 Gall.	Denatured Alcohol	1985
7	10,000 Gallons	Denatured Alcohol	1985
8	10,000 Gallons	Denatured Alcohol	1985

**NOTE: ALL PRODUCT REMOVED & TANKS CLOSED IN-PLACE IN 1994.**



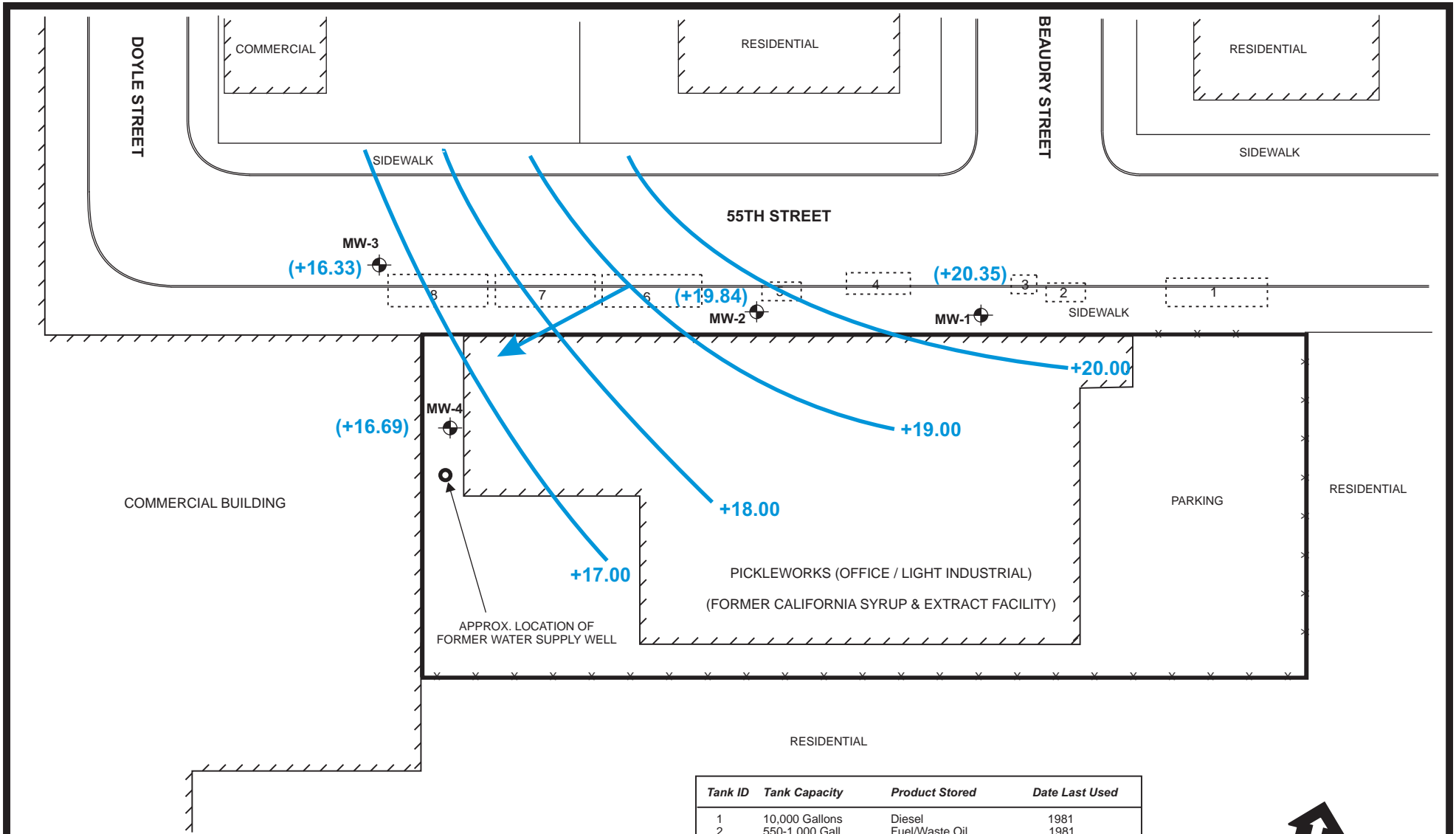
⊕ - GROUNDWATER MONITORING WELL



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

<b>SITE PLAN</b>
1375 55TH STREET EMERYVILLE, CALIFORNIA

DATE: 09/10/2013	FIGURE: <b>2</b>

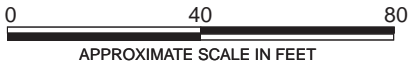


Tank ID	Tank Capacity	Product Stored	Date Last Used
1	10,000 Gallons	Diesel	1981
2	550-1,000 Gall.	Fuel/Waste Oil	1981
3	1,000 Gallons	Diesel	1981
4	1,000 Gallons	Aqueous Ammonia	1965
5	1,000 Gallons	Gasoline	1965
6	6,000-10,300 Gall.	Denatured Alcohol	1985
7	10,000 Gallons	Denatured Alcohol	1985
8	10,000 Gallons	Denatured Alcohol	1985

NOTE: ALL PRODUCT REMOVED & TANKS CLOSED IN-PLACE IN 1994.



⊕ - GROUNDWATER MONITORING WELL



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

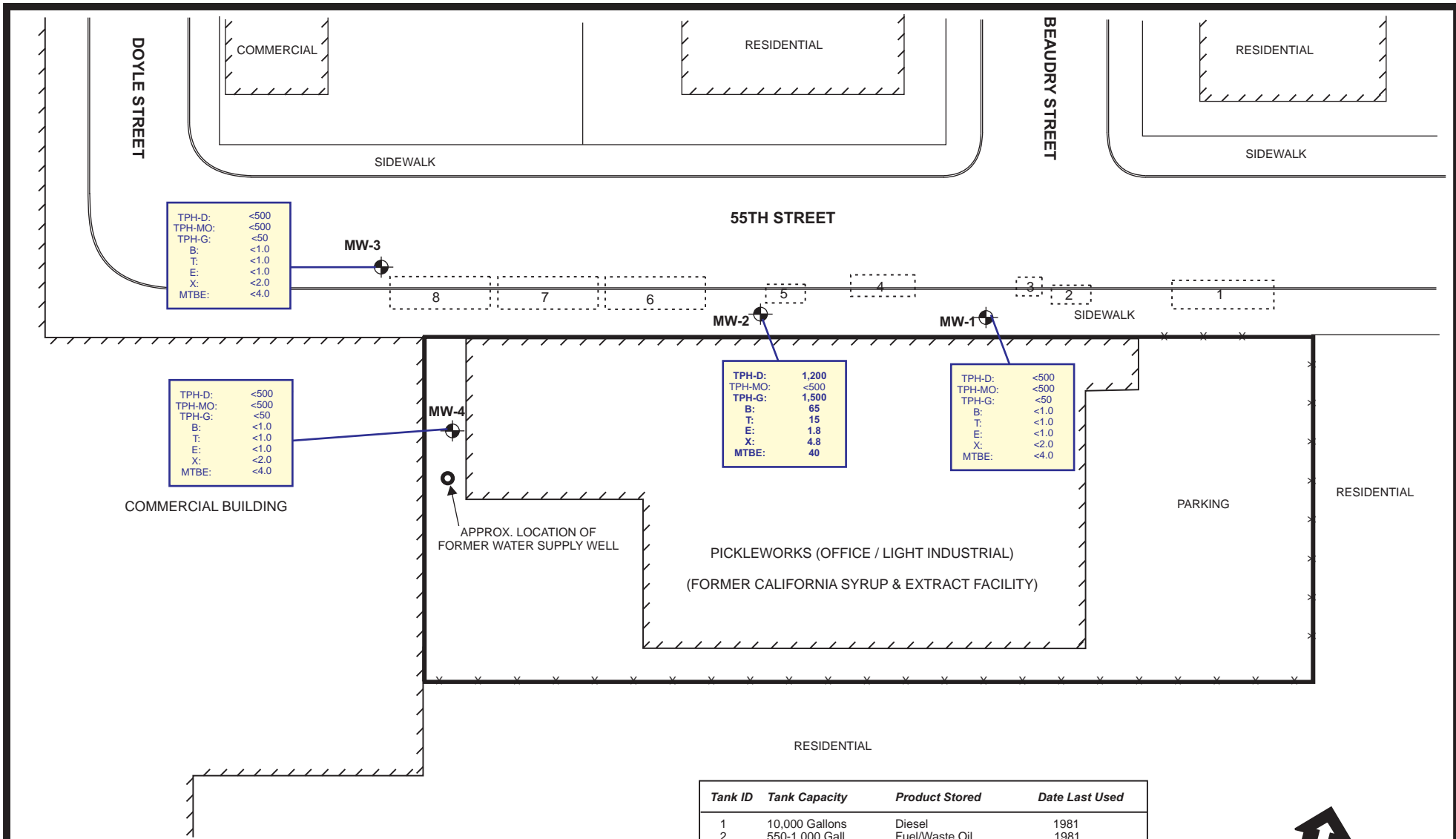
**GROUNDWATER ELEVATION GRADIENT - 06/28/2013**

1375 55TH STREET  
EMERYVILLE, CALIFORNIA

DATE: 09/10/2013

FIGURE: 3



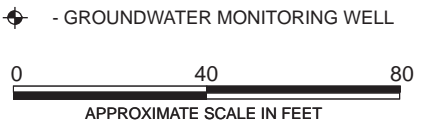


Tank ID	Tank Capacity	Product Stored	Date Last Used
1	10,000 Gallons	Diesel	1981
2	550-1,000 Gall.	Fuel/Waste Oil	1981
3	1,000 Gallons	Diesel	1981
4	1,000 Gallons	Aqueous Ammonia	1965
5	1,000 Gallons	Gasoline	1965
6	6,000-10,300 Gall.	Denatured Alcohol	1985
7	10,000 Gallons	Denatured Alcohol	1985
8	10,000 Gallons	Denatured Alcohol	1985

**NOTE: ALL PRODUCT REMOVED & TANKS CLOSED IN-PLACE IN 1994.**



GROUNDWATER HYDROCARBON RESULTS IN MICROGRAMS PER LITER (UG/L)



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

**GROUNDWATER HYDROCARBON RESULTS - 06/28/2013**

1375 55TH STREET  
EMERYVILLE, CALIFORNIA

DATE: 09/10/2013      FIGURE: 4



**ATTACHMENT A**  
**GROUNDWATER MONITORING FIELD DATA RECORDS**

**Groundwater Gauging Field Sheet**

Client Name California Syrup and Extract      Project Name California Syrup and Extract  
 Field Personnel \_\_\_\_\_      Date \_\_\_\_\_  
 Weather Conditions \_\_\_\_\_

Well ID	Depth to Free Product (feet)	Depth to Groundwater (feet)	Casing Elevation (msl)	Groundwater Elevation (msl)	Total Well Depth (feet)	Well Box Conditions
MW-1		6.35	26.70		16.7	
MW-2		6.33	26.17		19.8	
MW-3		8.65	24.98		14.6	
MW-4		9.36	26.05		19.6	

**Groundwater Monitoring Field Sheet**

Client Name California Syrup and Extract      Project Name California Syrup and Extract  
 Sampling Personnel MAR      Date 6/28/2013  
 Weather Conditions clear, warm  
 Well ID MW-1  
 Casing Diameter (inches) 2.0      Total Depth (feet) 16.7  
 Depth to Water 6.35      Depth to Free Product \_\_\_\_\_  
 Water Column (ft) 10.15      Product Thickness 4  
 One Well Volume (gal) 1.73      3x Well Volume (gal) 5.2

Notes:  
 One Well Volume is determine by multiplying "Water Column" by:  
 • 0.059 for 3/4-inch well, 0.17 for 2-inch well, 0.38 for 3-inch well, 0.66 for 4-inch well, 1.50 for 6-inch well

**FIELD METHODS**

Activity	Bailer	Pump	Comments
Purge Method		X	12 ✓ purge pump
Sample Method		X	12 ✓ purge pump

**FIELD PARAMETERS**

Time	Volume Purged	Temp. (F or C)	E.C. (µmS/cm)	D.O. (mg/L)	pH	ORP (mV)	Comments
<del>1038</del>				/			
1041	2	19.5	527		6.77		
1042	3	19.3	581		6.72		
1043	4	18.8	646		6.71		
1044	5	18.5	656		6.68		

**SAMPLE OBSERVATIONS**

Characteristic	None	Slight	Moderate	Strong	Comments
Color	X				
Odor	X				
Turbidity	X				
Sheen	X				
Other:					

Sample Time 1045      Sampler's Signature MAR

**Groundwater Monitoring Field Sheet**

Client Name California Syrup and Extract Project Name California Syrup and Extract  
 Sampling Personnel MAR Date 6/28/2013  
 Weather Conditions Clear, warm

Well ID MW-2  
 Casing Diameter (inches) 2.0 Total Depth (feet) 19.8  
 Depth to Water 6.33 Depth to Free Product —  
 Water Column (ft) 13.47 Product Thickness 0  
 One Well Volume (gal) 2.29 3x Well Volume (gal) 6.9

Notes:  
 One Well Volume is determined by multiplying "Water Column" by:  
 • 0.059 for 3/4-inch well, 0.17 for 2-inch well, 0.38 for 3-inch well, 0.66 for 4-inch well, 1.50 for 6-inch well

**FIELD METHODS**

Activity	Bailer	Pump	Comments
Purge Method		X	12V purge pump
Sample Method			

**FIELD PARAMETERS**

Time	Volume Purged	Temp. (F or C)	E.C. (µS/cm)	D.O. (mg/L)	pH	ORP (mV)	Comments
1107							
1110	2	18.8	657		6.75		
1112	4	19.2	622		6.80		
1115	6	18.6	742		6.70		
1116	7	18.4	745		6.68		

**SAMPLE OBSERVATIONS**

Characteristic	None	Slight	Moderate	Strong	Comments
Color	X				
Odor		X			H/C
Turbidity	X				
Sheen	X				
Other:					

Sample Time 1120 Sampler's Signature MAR

**Groundwater Monitoring Field Sheet**

Client Name California Syrup and Extract Project Name California Syrup and Extract  
 Sampling Personnel MAR Date 7/03/2013  
 Weather Conditions overcast, cool

Well ID MW-3  
 Casing Diameter (inches) 2.0 Total Depth (feet) 14.6  
 Depth to Water 8.65 Depth to Free Product —  
 Water Column (ft) 5.95 Product Thickness 0  
 One Well Volume (gal) 1.01 3x Well Volume (gal) 3.0

Notes:  
 One Well Volume is determined by multiplying "Water Column" by:  
 • 0.059 for 3/4-inch well, 0.17 for 2-inch well, 0.38 for 3-inch well, 0.66 for 4-inch well, 1.50 for 6-inch well

**FIELD METHODS**

Activity	Bailer	Pump	Comments
Purge Method		X	12V purge pump
Sample Method			

**FIELD PARAMETERS**

Time	Volume Purged	Temp. (F or C)	E.C. (µS/cm)	D.O. (mg/L)	pH	ORP (mV)	Comments
0603							
0605	1	18.7	649		6.62		
0607	2	18.7	645		6.69		
0609	3	18.7	648		6.71		

**SAMPLE OBSERVATIONS**

Characteristic	None	Slight	Moderate	Strong	Comments
Color	X				
Odor	X				
Turbidity	X				
Sheen	X				
Other:					

Sample Time 0610 Sampler's Signature MAR

**Groundwater Monitoring Field Sheet**

Client Name California Syrup and Extract Project Name California Syrup and Extract

Sampling Personnel MAR Date 6/28/2013

Weather Conditions Clear, Warm

Well ID MW-4

Casing Diameter (inches) 2.0 Total Depth (feet) 19.6

Depth to Water 9.36 Depth to Free Product —

Water Column (ft) 10.24 Product Thickness φ

One Well Volume (gal) 1.74 3x Well Volume (gal) 5.2

Notes:

One Well Volume is determine by multiplying "Water Column" by:

- 0.059 for 3/4-inch well, 0.17 for 2-inch well, 0.38 for 3-inch well, 0.66 for 4-inch well, 1.50 for 6-inch well

**FIELD METHODS**

Activity	Bailer	Pump	Comments
Purge Method		X	12V purge pump
Sample Method		X	12V purge pump

**FIELD PARAMETERS**

Time	Volume Purged	Temp. (F or C)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Comments
1011							
1013	2	19.0	1.11		6.70		
1015	3	18.9	1.12		6.74		
1016	4	18.8	1.13		6.76		
1017	5	18.7	1.14		6.78		

**SAMPLE OBSERVATIONS**

Characteristic	None	Slight	Moderate	Strong	Comments
Color	X				
Odor	X				
Turbidity	X				
Sheen	X				
Other:					

Sample Time 1020

Sampler's Signature MAR



**ATTACHMENT B**  
**LABORATORY DATA REPORTS AND**  
**CHAIN-OF-CUSTODY RECORDS**



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

29 July 2013

Jim Gribi  
Gribi Associates  
1090 Adam Street, Suite K  
Benicia, CA 94510  
RE: California Syrup and Extract

Enclosed are the results of analyses for samples received by the laboratory on 07/06/13 10:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez  
Project Manager



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: California Syrup and Extract  
Project Number: [none]  
Project Manager: Jim Gribi

Reported:  
07/29/13 15:28

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T131542-01	Water	06/28/13 10:45	07/06/13 10:35
MW-2	T131542-02	Water	06/28/13 11:20	07/06/13 10:35
MW-3	T131542-03	Water	07/03/13 06:10	07/06/13 10:35
MW-4	T131542-04	Water	06/28/13 10:20	07/06/13 10:35

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: California Syrup and Extract  
1090 Adam Street, Suite K Project Number: [none] Reported:  
Benicia CA, 94510 Project Manager: Jim Gribi 07/29/13 15:28

**MW-1  
T131542-01 (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	3072607	07/26/13	07/26/13	EPA 8015C	I-02
Surrogate: 4-Bromofluorobenzene	115 %	65-135	"	"	"	"	"	"	I-02

**Extractable Petroleum Hydrocarbons by 8015C**

C13-C28 (DRO)	ND	0.50	mg/l	1	3072606	07/26/13	07/29/13	EPA 8015C	I-02
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	I-02
Surrogate: p-Terphenyl	68.6 %	65-135	"	"	"	"	"	"	I-02

**Volatile Organic Compounds by EPA Method 8021B**

Methyl tert-butyl ether	ND	4.0	ug/l	1	3072608	07/26/13	07/26/13	EPA 8021B	I-02
Benzene	ND	1.0	"	"	"	"	"	"	I-02
Toluene	ND	1.0	"	"	"	"	"	"	I-02
Ethylbenzene	ND	1.0	"	"	"	"	"	"	I-02
m,p-Xylene	ND	2.0	"	"	"	"	"	"	I-02
o-Xylene	ND	1.0	"	"	"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	119 %	65-135	"	"	"	"	"	"	I-02

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Daniel Chavez, Project Manager



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Gribi Associates Project: California Syrup and Extract  
1090 Adam Street, Suite K Project Number: [none] Reported:  
Benicia CA, 94510 Project Manager: Jim Gribi 07/29/13 15:28

**MW-2  
T131542-02 (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)	1500	50	ug/l	1	3072607	07/26/13	07/26/13	EPA 8015C	I-02
Surrogate: 4-Bromofluorobenzene	92.0 %	65-135	"	"	"	"	"	"	I-02

**Extractable Petroleum Hydrocarbons by 8015C**

C13-C28 (DRO)	1.2	0.50	mg/l	1	3072606	07/26/13	07/29/13	EPA 8015C	I-02
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	I-02
Surrogate: p-Terphenyl	72.8 %	65-135	"	"	"	"	"	"	I-02

**Volatile Organic Compounds by EPA Method 8021B**

Methyl tert-butyl ether	40	4.0	ug/l	1	3072608	07/26/13	07/26/13	EPA 8021B	I-02
Benzene	65	1.0	"	"	"	"	"	"	I-02
Toluene	15	1.0	"	"	"	"	"	"	I-02
Ethylbenzene	1.8	1.0	"	"	"	"	"	"	I-02
m,p-Xylene	2.7	2.0	"	"	"	"	"	"	I-02
o-Xylene	2.1	1.0	"	"	"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	103 %	65-135	"	"	"	"	"	"	I-02

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**MW-3  
 T131542-03 (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	3072607	07/26/13	07/26/13	EPA 8015C	I-02
Surrogate: 4-Bromofluorobenzene	114 %	65-135							I-02

**Extractable Petroleum Hydrocarbons by 8015C**

C13-C28 (DRO)	ND	0.50	mg/l	1	3072606	07/26/13	07/29/13	EPA 8015C	I-02
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	I-02
Surrogate: p-Terphenyl	72.2 %	65-135							I-02

**Volatile Organic Compounds by EPA Method 8021B**

Methyl tert-butyl ether	ND	4.0	ug/l	1	3072608	07/26/13	07/26/13	EPA 8021B	I-02
Benzene	ND	1.0	"	"	"	"	"	"	I-02
Toluene	ND	1.0	"	"	"	"	"	"	I-02
Ethylbenzene	ND	1.0	"	"	"	"	"	"	I-02
m,p-Xylene	ND	2.0	"	"	"	"	"	"	I-02
o-Xylene	ND	1.0	"	"	"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	123 %	65-135							I-02

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**MW-4  
 T131542-04 (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	3072607	07/26/13	07/26/13	EPA 8015C	I-02
Surrogate: 4-Bromofluorobenzene	114 %	65-135							I-02

**Extractable Petroleum Hydrocarbons by 8015C**

C13-C28 (DRO)	ND	0.50	mg/l	1	3072606	07/26/13	07/29/13	EPA 8015C	I-02
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	I-02
Surrogate: p-Terphenyl	71.8 %	65-135							I-02

**Volatile Organic Compounds by EPA Method 8021B**

Methyl tert-butyl ether	ND	4.0	ug/l	1	3072608	07/26/13	07/26/13	EPA 8021B	I-02
Benzene	ND	1.0	"	"	"	"	"	"	I-02
Toluene	ND	1.0	"	"	"	"	"	"	I-02
Ethylbenzene	ND	1.0	"	"	"	"	"	"	I-02
m,p-Xylene	ND	2.0	"	"	"	"	"	"	I-02
o-Xylene	ND	1.0	"	"	"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	122 %	65-135							I-02

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Benicia CA, 94510 Project Manager: Jim Gribi 07/29/13 15:28

**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 3072607 - EPA 5030 GC**

**Blank (3072607-BLK1)** Prepared & Analyzed: 07/26/13

C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	118	"		100	118	65-135				

**LCS (3072607-BS1)** Prepared & Analyzed: 07/26/13

C6-C12 (GRO)	5010	50	ug/l			75-125				
Surrogate: 4-Bromofluorobenzene	83.8	"		100	83.8	65-135				

**Matrix Spike (3072607-MS1)** Source: T131542-02 Prepared & Analyzed: 07/26/13

C6-C12 (GRO)	6420	50	ug/l		1470	65-135				
Surrogate: 4-Bromofluorobenzene	84.5	"		100	84.5	65-135				

**Matrix Spike Dup (3072607-MSD1)** Source: T131542-02 Prepared & Analyzed: 07/26/13

C6-C12 (GRO)	6210	50	ug/l		1470	65-135	3.40	20		
Surrogate: 4-Bromofluorobenzene	78.3	"		100	78.3	65-135				

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Benicia CA, 94510 Project Manager: Jim Gribi 07/29/13 15:28

**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 3072606 - EPA 3510C GC**

**Blank (3072606-BLK1)** Prepared: 07/26/13 Analyzed: 07/29/13

C13-C28 (DRO)	ND	0.50	mg/l							
C29-C40 (MORO)	ND	0.50	"							

Surrogate: p-Terphenyl 2.90 " 4.00 72.4 65-135

**LCS (3072606-BS1)** Prepared: 07/26/13 Analyzed: 07/29/13

C13-C28 (DRO)	17.7	0.50	mg/l	20.0	88.5	75-125				
Surrogate: p-Terphenyl	2.93	"		4.00	73.4	65-135				

**Matrix Spike (3072606-MS1)** Source: T131542-01 Prepared: 07/26/13 Analyzed: 07/29/13

C13-C28 (DRO)	18.9	0.50	mg/l	20.0	ND	94.3	75-125			
Surrogate: p-Terphenyl	2.91	"		4.00	72.7	65-135				

**Matrix Spike Dup (3072606-MSD1)** Source: T131542-01 Prepared: 07/26/13 Analyzed: 07/29/13

C13-C28 (DRO)	18.7	0.50	mg/l	20.0	ND	93.7	75-125	0.653	20	
Surrogate: p-Terphenyl	3.03	"		4.00	75.6	65-135				

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Benicia CA, 94510 Project Manager: Jim Gribi 07/29/13 15:28

**Volatile Organic Compounds by EPA Method 8021B - 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 3072608 - EPA 5030 GC**

**Blank (3072608-BLK1)** Prepared & Analyzed: 07/26/13

Methyl tert-butyl ether	ND	4.0	ug/l							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Surrogate: 4-Bromofluorobenzene	108		"	100		108	65-135			

**LCS (3072608-BS1)** Prepared & Analyzed: 07/26/13

Benzene	91.7	1.0	ug/l	100		91.7	70-130			
Toluene	87.0	1.0	"	100		87.0	70-130			
Ethylbenzene	86.1	1.0	"	100		86.1	70-130			
m,p-Xylene	167	2.0	"	200		83.3	70-130			
o-Xylene	85.9	1.0	"	100		85.9	70-130			
Surrogate: 4-Bromofluorobenzene	112		"	100		112	65-135			

**Matrix Spike (3072608-MS1)** Source: T131542-02 Prepared & Analyzed: 07/26/13

Benzene	170	1.0	ug/l	100	64.6	105	70-130			
Toluene	89.9	1.0	"	100	15.1	74.9	70-130			
Ethylbenzene	80.5	1.0	"	100	1.81	78.7	70-130			
m,p-Xylene	158	2.0	"	200	2.66	77.7	70-130			
o-Xylene	87.1	1.0	"	100	2.11	84.9	70-130			
Surrogate: 4-Bromofluorobenzene	98.3		"	100		98.3	65-135			

**Matrix Spike Dup (3072608-MSD1)** Source: T131542-02 Prepared & Analyzed: 07/26/13

Benzene	148	1.0	ug/l	100	64.6	83.8	70-130	13.5	20	
Toluene	83.8	1.0	"	100	15.1	68.7	70-130	7.07	20	QM-05
Ethylbenzene	80.7	1.0	"	100	1.81	78.8	70-130	0.180	20	
m,p-Xylene	160	2.0	"	200	2.66	78.7	70-130	1.25	20	
o-Xylene	88.4	1.0	"	100	2.11	86.3	70-130	1.51	20	
Surrogate: 4-Bromofluorobenzene	93.6		"	100		93.6	65-135			

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Benicia CA, 94510 Project Manager: Jim Gribi 07/29/13 15:28

**Notes and Definitions**

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- L-02 This result was analyzed outside of the EPA recommended holding time.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Daniel Chavez, Project Manager

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### SAMPLE RECEIVING REVIEW SHEET

BATCH # T131542  
 Client Name: Gribi Associates Project: California Syrup  
 Received by: DM Date/Time Received: 7/6/13 1035

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other

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

Temperature: cooler #1 4.8 °C +/- the CF (-0.2°C) = 4.6 °C corrected temperature

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

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

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

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

Sample Containers Intact  Yes  No\*  N/A

Sample labels match COC ID's  Yes  No\*  N/A

Total number of containers received match COC  Yes  No\*  N/A

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

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 7/6/13

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

T131542

SAMPLE ID	LOCATION Field Point Name	Date	Time	Containers	Type Containers	MATERIAL			METHOD PRESERVED	COMMENTS
						Water	Soil	Air		
MW-1		6/28	1035	4	VOG	X	X	X		
MW-2		6/28	1120	4	VOG	X	X	X		
MW-3		7/03	0815	4	VOG	X	X	X		
MW-4		7/28	1020	4	VOG	X	X	X		

Report To: <u>James Gribi</u>	Company: <u>Gri I Associates</u>	1090 Adams Street Suite	Benicia CA 94 10	E-Mail: <u></u>	707 748-7743	Fax: <u>707 748-7763</u>
Client Name: <u>California Syrup Extract</u>	Pre cert Name: <u>California Syrup Extract</u>	Sampler Signature: <u>[Signature]</u>	Client Name: <u>Gri I Associates</u>	2 712 COMMERCE DRIVE	LA FOREST CA 92630	www.SUNSTARLABS.com Email: <u>ohi_sunstar@sunstar.com</u> Fax: <u>949 297 027</u>

MTBE BTE	TPH as Gas	602	8021	801
MTBE BTE	ONL	EPA 602	8021	
TPH as Diesel	Motor Oil	801		
Total Petroleum Oil	Grease	1664	20 E B F	
Total Petroleum Hydrocarbons	418.1			
EPA 02.2	601 8010 8021	HVOCs		
EPA 0	608 8081	Cl Pesticides		
EPA 608	8082	PCB's ONL Aroclors Congeners		
EPA 07	8141	NP Pesticides		
EPA 1	81.1	Acidic Chlorides		
EPA 24.2	624 8260	VOCs		
EPA 2.2	62 8270	SVOCs		
EPA 8270	SIM 8310	PAHs PNAs		
CAM 17	Metals 200.7 200.8 6010 6020			
L FT	Metals 200.7 200.8 6010 6020			
Lead	200.7 200.8 6010 6020			

Analysis Requested	Other	Comments
<input type="checkbox"/> T RN ARO ND TIME <input checked="" type="checkbox"/> GeoTrac er EDF <input type="checkbox"/> PDF <input type="checkbox"/> Excel <input type="checkbox"/> White On DW		Filter Samples for Metals analysis es No

ICE 1	GOOD CONDITION
HEADSPACE ASSESS	HEADSPACE ASSESS
HEAVY METALS IN LAB	HEAVY METALS IN LAB
PRESERVED IN LAB	PRESERVED IN LAB
VOAS	OG METALS OTHER
pH 2	

Revised By: [Signature] Date: 7/23/13 Time: 0715 Rec'd By: [Signature] Date: 7/23/13 Time: 1035  
 Reim. Method By: GSO Reim. Method By: [Signature] Date: 7/6/13 Time: 1035

STP. TAT [Signature]