

## Appendices

# Appendix F2      Phase II Investigation Report

## Appendices

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Revised for  
CONCLUSION OF  
RESIDATION

## LEYMASTER ENVIRONMENTAL CONSULTING, LLC

5500 E. Atherton Street, Suite 210 • Long Beach, CA 90815  
Office: (562) 799-9866 • Fax: (562) 799-1963  
www.leymaster.net

April 22, 2013

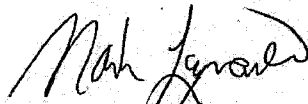
Ms. Dana Davis  
Business Properties Management Company, LLC  
17631 Fitch  
Irvine, CA 92614-6021

Re: PHASE II INVESTIGATION REPORT  
MacArthur Square  
Newport Beach, California

Dear Ms. Davis:

Enclosed is a *Phase II Investigation Report* for the above-referenced site. Please call if you have questions or comments.

Sincerely,

  
Mark Leymaster, PE



Myrna Rangel  
Project Manager

Enclosure

**PHASE II INVESTIGATION REPORT**

**MacArthur Square  
Newport Beach, California**

**April 22, 2013**

## **1.0 Introduction**

This report describes the field activities and analytical results of a Phase II investigation conducted by Leymaster Environmental Consulting, LLC (LEC) on the property known as MacArthur Square, Newport Beach, California, California (Figure 1). The investigation was completed on April 9, 2013.

The purpose of the investigation was to assist in determining whether former dry cleaning operations on the property represent a human health risk and as a screening tool to evaluate possible impacts to the subsurface from either onsite or offsite sources.

## **2.0 Soil-Vapor Investigation**

LEC collected three sub-slab vapor samples from beneath the former Enjay Cleaners, located at 1701 Corinthian Way, Suite H. Seven soil vapor probes (SV-1 through SV-7) were installed around the perimeter of MacArthur Square. Soil vapor samples were collected at five feet beneath the surface (bgs) from all locations. In addition, 15-foot vapor samples were collected from four of the probes (SV-1, SV-2, SV-4, and SV-6). Sampling locations are shown on Figure 2.

The sub-slab vapor samples were collected using the procedure that conforms to the Department of Toxic Substances Control (DTSC) and the Los Angeles Regional Water Quality Control Board (RWQCB) specifications. The vapor samples were collected directly beneath the concrete slab. A default 3 purge volume was used to purge ambient air from the sampling system. At each location, the vapor probe seal was tested using the tracer compound 1,1,1-trifluoroethane to ensure the integrity of the seal. After an equilibration period of at least 30 minutes, ambient vapors were extracted from the tube using a syringe and were analyzed onsite in a California state-certified mobile laboratory by EPA Method 8260B for concentrations of volatile organic compounds (VOCs).

A sub-slab soil-vapor sample and an ambient air sample were also collected in Tedlar bags, and transported to Dr. Douglas E. Hammond at the University of Southern California Department of Geological Sciences and analyzed for radon by liquid scintillation counting within approximately three hours of sampling.

The analytical results of detectable VOC concentrations for the sub-slab samples are shown on the following table. Results are reported in micrograms per liter ( $\mu\text{g/l}$ ). Laboratory data are included in Attachment A.

Phase II Investigation Report  
MacArthur Square  
Newport Beach, CA  
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| Sample ID        | Date     | Tetrachloroethene (PCE) |
|------------------|----------|-------------------------|
| CHHLS-Commercial |          | 1.6                     |
| SS-1             | 4/9/2013 | 0.73                    |
| SS-2             | 4/9/2013 | 0.21                    |
| SS-3             | 4/9/2013 | 0.35                    |

All PCE concentrations detected are below the sub-slab California Human Health Screening Levels (CHHSLs) for commercial land use. The former dry cleaning operations have not significantly impacted the subsurface and there is no human health risk based on these analytical results. Therefore, a Screening Level Risk Assessment was not completed. The results of the radon analysis are included in Attachment II for informational purposes only.

Soil-vapor samples from SV1 through SV7 were collected using the procedure that conforms to the DTSC and RWQCB specifications by driving a rod to the target depth and inserting a perforated Tygon® tube into the rod, which was then withdrawn, leaving the tube in the ground. The annular space around the tube was backfilled with bentonite chips that were then hydrated with drinking water to create a seal around the tube. A purge volume test was completed and based on the results; a 10 purge volume was used for the survey. Each vapor probe was tested using the tracer compound 1,1,-difluoroethane to ensure the integrity of the seal. After an equilibration period of at least 30 minutes, ambient vapors were extracted from the tube using a syringe and were analyzed onsite in a California state-certified mobile laboratory by EPA Method 8260B for concentrations VOCs.

The analytical results of detectable VOC concentrations for the vapor probes are shown on the following table. Results are reported in µg/l. Laboratory data are included in Attachment A.

Phase II Investigation Report  
 MacArthur Square  
 Newport Beach, CA  
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| Sample ID | Date     | Tetrachloroethene (PCE) |
|-----------|----------|-------------------------|
| SV-1-5'   | 4/9/2013 | <0.10                   |
| SV-1-15'  | 4/9/2013 | <0.10                   |
| SV-2-5'   | 4/9/2013 | 0.15                    |
| SV-2-15'  | 4/9/2013 | 1.5                     |
| SV-3-5'   | 4/9/2013 | 0.38                    |
| SV-4-5'   | 4/9/2013 | <0.10                   |
| SV-4-15'  | 4/9/2013 | 1.4                     |
| SV-5-5'   | 4/9/2013 | <0.10                   |
| SV-6-5'   | 4/9/2013 | <0.10                   |
| SV-6-15'  | 4/9/2013 | <0.10                   |
| SV-7-5'   | 4/9/2013 | <0.10                   |

The PCE concentrations detected in SV-2-5' and SV-3-5' are below the CHHSLs of 0.603 µg/l for commercial land use. There is no corresponding CHHSL for samples collected at depths greater than five feet bgs.

It is possible that the PCE concentrations detected at 15 feet bgs are off-gassing from the groundwater, which is approximately 20 feet bgs. However, there is no indication that current and or former operations at the property are the source of this impact.

### 3.0 Conclusion

No further investigation is recommended. However, should the property be re-developed for residential purposes it is possible that certain measures might be required to mitigate any potential risk associated with the PCE concentrations in the soil-vapor. Examples of such measures include but are not limited to the following:

- Installation of a vapor barrier beneath the footprint of the planned development;
- Construction of an underground parking structure with sufficient

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MacArthur Square  
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- open air circulation; and
- No residential units on the first floor of the development.

Any of these measures would sufficiently address potential vapor-intrusion issues.

**Leymaster Environmental Consulting, LLC**

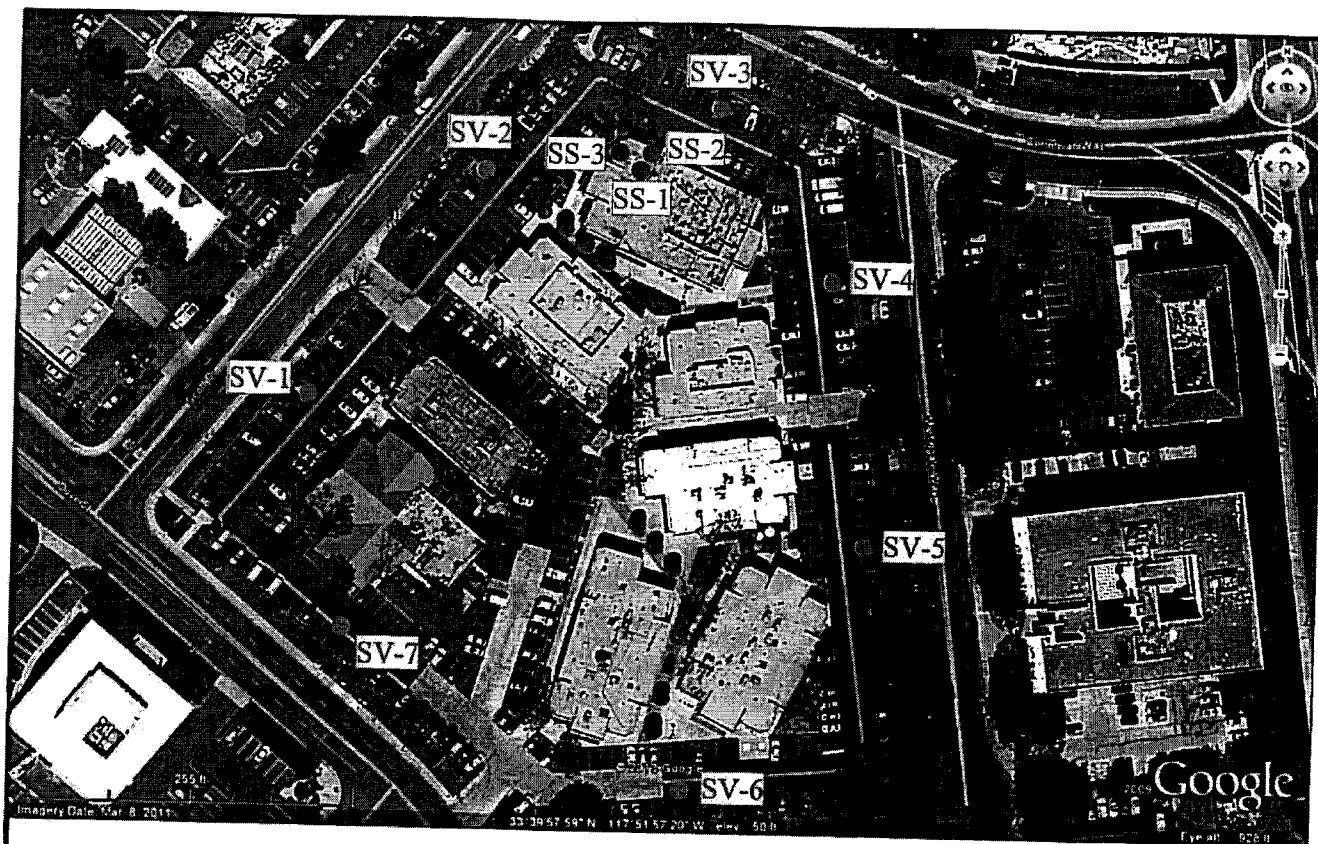
5500 E. Atherton St., Suite 210  
Long Beach, CA 90815

**Local Area Map**

1660 Dove Street  
4200 & 4220 Scott Drive  
4251 & 4253 Martingale Way  
Newport Beach, CA 92660

Figure 1

April 22, 2013



### Legend

- Soil-Vapor Probe Location
- Sub-Slab Location

**Leymaster Environmental Consulting, LLC**

5500 E. Atherton St., Suite 210  
Long Beach, CA 90815

### Sampling Locations

1660 Dove Street  
4200 & 4220 Scott Drive  
4251 & 4253 Martingale Way  
Newport Beach, CA 92660

Figure 2

April 22, 2013

## **ATTACHMENT I**

### **Laboratory Data**



Mobile  
Geochemistry  
Inc.

16 April 2013

Ms. Myrna Rangel  
Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815



H&P Project: LEY040913-SB2  
Client Project: 4200 SCOTT ST.

Dear Ms. Myrna Rangel:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 09-Apr-13 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

A handwritten signature in cursive script that reads 'Janis Villarreal'.

Janis Villarreal  
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

2470 Impala Drive, Carlsbad, California 92010 - 760.804.9678 - Fax 760.804.9159  
1855 Coronado Avenue, Signal Hill, California 90755  
www.HandPmg.com 1-800-834-9888

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# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID              | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------------------|---------------|--------|--------------|---------------|
| SV-2-5', IPV, P111cc   | E304026-01    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-2-5', 3PV, P333cc   | E304026-02    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-2-5', 10PV, P1108cc | E304026-03    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-3-5', P1108cc       | E304026-04    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-2-15', P1202cc      | E304026-05    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-4-5', P1111cc       | E304026-06    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-5-5', P1111cc       | E304026-07    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-4-15', P1202cc      | E304026-08    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-4-15' Rep, P1252cc  | E304026-09    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-6-15', P1202cc      | E304026-10    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-6-5', P1111cc       | E304026-11    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-7-5', P1111cc       | E304026-12    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SS1, P135cc            | E304026-13    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SS2, P135cc            | E304026-14    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SS3, P135cc            | E304026-15    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-1-5', P1111cc       | E304026-16    | Vapor  | 09-Apr-13    | 09-Apr-13     |
| SV-1-15', P1202cc      | E304026-17    | Vapor  | 09-Apr-13    | 09-Apr-13     |

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2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

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5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                        | Result | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|--------------------------------------------------------------------------------|--------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SV-2-5', IPV, P111cc (E304026-01) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                       | ND     | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                                 | ND     | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                             | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                           | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                             | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                                     | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                           | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                       | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                                        | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                                | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                                        | ND     | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                              | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                                     | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                                |        | 100 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                               |        | 107 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                          |        | 102 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                                |        | 110 %           | 75-125 | "               | "       | "         | "         | "           |       |

# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

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Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                        | Result | Reporting<br>Limit | Units  | Dilution<br>Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|--------------------------------------------------------------------------------|--------|--------------------|--------|--------------------|---------|-----------|-----------|-------------|-------|
| SV-2-5', 3PV, P333cc (E304026-02) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                    |        |                    |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                       | ND     | 0.50               | ug/l   | 0.05               | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                                  | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Vinyl chloride                                                                 | ND     | 0.05               | "      | "                  | "       | "         | "         | "           |       |
| Chloroethane                                                                   | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                                   | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                             | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                           | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                          | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                       | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                             | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                         | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Chloroform                                                                     | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                          | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                           | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                       | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| Benzene                                                                        | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| Trichloroethene                                                                | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| Toluene                                                                        | ND     | 1.0                | "      | "                  | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                          | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Tetrachloroethene                                                              | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| Ethylbenzene                                                                   | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                      | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| m,p-Xylene                                                                     | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| o-Xylene                                                                       | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                      | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                                |        | 111 %              | 75-125 |                    | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                               |        | 110 %              | 75-125 |                    | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                          |        | 104 %              | 75-125 |                    | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                                |        | 107 %              | 75-125 |                    | "       | "         | "         | "           |       |

# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

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Project: LEY040913-SB2  
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Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                          | Result | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|----------------------------------------------------------------------------------|--------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SV-2-5', 10PV, P1108cc (E304026-03) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                         | ND     | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                                    | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                                   | ND     | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                                     | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                                     | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                             | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                            | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                           | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                                       | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                            | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                             | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                         | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                                          | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                                  | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                                          | ND     | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                            | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                                | 0.15   | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                                     | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                        | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                        | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                                  |        | 110 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                                 |        | 112 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                            |        | 107 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                                  |        | 105 %           | 75-125 | "               | "       | "         | "         | "           |       |

# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myma Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                    | Result      | Reporting<br>Limit | Units | Dilution<br>Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|----------------------------------------------------------------------------|-------------|--------------------|-------|--------------------|---------|-----------|-----------|-------------|-------|
| SV-3-S', P1108cc (E304026-04) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |             |                    |       |                    |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                   | ND          | 0.50               | ug/l  | 0.05               | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                              | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Vinyl chloride                                                             | ND          | 0.05               | "     | "                  | "       | "         | "         | "           |       |
| Chloroethane                                                               | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                               | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                         | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                       | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                      | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                   | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                         | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                     | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Chloroform                                                                 | ND          | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                      | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                       | ND          | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                   | ND          | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| Benzene                                                                    | ND          | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| Trichloroethene                                                            | ND          | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| Toluene                                                                    | ND          | 1.0                | "     | "                  | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                      | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| <b>Tetrachloroethene</b>                                                   | <b>0.38</b> | <b>0.10</b>        | "     | "                  | "       | "         | "         | "           |       |
| Ethylbenzene                                                               | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                  | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| m,p-Xylene                                                                 | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| o-Xylene                                                                   | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                  | ND          | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                            | 111 %       | 75-125             | "     | "                  | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                           | 114 %       | 75-125             | "     | "                  | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                      | 103 %       | 75-125             | "     | "                  | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                            | 114 %       | 75-125             | "     | "                  | "       | "         | "         | "           |       |

# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                     | Result | Reporting<br>Limit | Units  | Dilution<br>Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|-----------------------------------------------------------------------------|--------|--------------------|--------|--------------------|---------|-----------|-----------|-------------|-------|
| SV-2-15', P1202cc (E304026-05) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                    |        |                    |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                    | ND     | 0.50               | ug/l   | 0.05               | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                               | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Vinyl chloride                                                              | ND     | 0.05               | "      | "                  | "       | "         | "         | "           |       |
| Chloroethane                                                                | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                                | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                          | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                        | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                       | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                    | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                          | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                      | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Chloroform                                                                  | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                       | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                        | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                    | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| Benzene                                                                     | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| Trichloroethene                                                             | ND     | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| Toluene                                                                     | ND     | 1.0                | "      | "                  | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                       | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Tetrachloroethene                                                           | 1.5    | 0.10               | "      | "                  | "       | "         | "         | "           |       |
| Ethylbenzene                                                                | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                   | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| m,p-Xylene                                                                  | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| o-Xylene                                                                    | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                   | ND     | 0.50               | "      | "                  | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                             |        | 109 %              | 75-125 |                    | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                            |        | 105 %              | 75-125 |                    | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                       |        | 102 %              | 75-125 |                    | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                             |        | 107 %              | 75-125 |                    | "       | "         | "         | "           |       |

# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                    | Result | Reporting<br>Limit | Units | Dilution<br>Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|----------------------------------------------------------------------------|--------|--------------------|-------|--------------------|---------|-----------|-----------|-------------|-------|
| SV-4-S', P1111cc (E304026-06) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                    |       |                    |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                   | ND     | 0.50               | ug/l  | 0.05               | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                              | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Vinyl chloride                                                             | ND     | 0.05               | "     | "                  | "       | "         | "         | "           |       |
| Chloroethane                                                               | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                               | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                         | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                       | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                      | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                   | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                         | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                     | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Chloroform                                                                 | ND     | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                      | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                       | ND     | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                   | ND     | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| Benzene                                                                    | ND     | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| Trichloroethene                                                            | ND     | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| Toluene                                                                    | ND     | 1.0                | "     | "                  | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                      | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Tetrachloroethene                                                          | ND     | 0.10               | "     | "                  | "       | "         | "         | "           |       |
| Ethylbenzene                                                               | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                  | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| m,p-Xylene                                                                 | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| o-Xylene                                                                   | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                  | ND     | 0.50               | "     | "                  | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                            | 112 %  | 75-125             | "     | "                  | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                           | 120 %  | 75-125             | "     | "                  | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                      | 102 %  | 75-125             | "     | "                  | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                            | 112 %  | 75-125             | "     | "                  | "       | "         | "         | "           |       |

# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
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Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                    | Result | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|----------------------------------------------------------------------------|--------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SV-5-5', P1111cc (E304026-07) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                   | ND     | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                              | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                             | ND     | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                     | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                                 | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                       | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                   | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                                    | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                            | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                                    | ND     | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                          | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                                 | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                            |        | 108 %           | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                           |        | 113 %           | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                      |        | 99.8 %          | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                            |        | 111 %           | 75-125 |                 | "       | "         | "         | "           |       |

# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

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16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                     | Result     | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|-----------------------------------------------------------------------------|------------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SV-4-15', P1202cc (E304026-08) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |            |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                    | ND         | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                               | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                              | ND         | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                                | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                                | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                          | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                        | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                       | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                    | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                          | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                      | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                                  | ND         | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                       | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                        | ND         | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                    | ND         | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                                     | ND         | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                             | ND         | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                                     | ND         | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                       | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| <b>Tetrachloroethene</b>                                                    | <b>1.4</b> | <b>0.10</b>     | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                                | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                   | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                                  | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                                    | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                   | ND         | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                             |            | 110 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                            |            | 120 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                       |            | 101 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                             |            | 107 %           | 75-125 | "               | "       | "         | "         | "           |       |

# H&P Mobile Geochemistry Inc.

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Carlsbad, CA 92010  
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Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                         | Result | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|---------------------------------------------------------------------------------|--------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SV-4-15' Rep, P1252cc (E304026-09) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                        | ND     | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                                  | ND     | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                                    | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                                    | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                              | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                            | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                           | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                        | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                              | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                                      | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                           | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                            | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                        | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                                         | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                                 | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                                         | ND     | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                           | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                               | 1.3    | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                                    | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                                        | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                                 |        | 114 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                                |        | 119 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                           |        | 101 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                                 |        | 101 %           | 75-125 | "               | "       | "         | "         | "           |       |

# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                     | Result | Reporting Limit | Units | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|-----------------------------------------------------------------------------|--------|-----------------|-------|-----------------|---------|-----------|-----------|-------------|-------|
| SV-6-15', P1202cc (E304026-10) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |       |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                    | ND     | 0.50            | ug/l  | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                               | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                              | ND     | 0.05            | "     | "               | "       | "         | "         | "           |       |
| Chloroethane                                                                | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                                | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                          | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                        | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                       | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                    | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                          | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                      | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| Chloroform                                                                  | ND     | 0.10            | "     | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                       | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                        | ND     | 0.10            | "     | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                    | ND     | 0.10            | "     | "               | "       | "         | "         | "           |       |
| Benzene                                                                     | ND     | 0.10            | "     | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                             | ND     | 0.10            | "     | "               | "       | "         | "         | "           |       |
| Toluene                                                                     | ND     | 1.0             | "     | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                       | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                           | ND     | 0.10            | "     | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                                | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                   | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                                  | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| o-Xylene                                                                    | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                   | ND     | 0.50            | "     | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                             | 102 %  | 75-125          | "     | "               | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                            | 120 %  | 75-125          | "     | "               | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                       | 100 %  | 75-125          | "     | "               | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                             | 107 %  | 75-125          | "     | "               | "       | "         | "         | "           |       |

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2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                    | Result | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|----------------------------------------------------------------------------|--------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SV-6-5', P1111cc (E304026-11) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                   | ND     | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                              | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                             | ND     | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                     | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                                 | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                       | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                   | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                                    | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                            | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                                    | ND     | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                          | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                                 | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                            |        | 121 %           | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                           |        | 123 %           | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                      |        | 103 %           | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                            |        | 104 %           | 75-125 |                 | "       | "         | "         | "           |       |

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Carlsbad, CA 92010  
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Long Beach, CA 90815

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## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                    | Result | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|----------------------------------------------------------------------------|--------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SV-7-5', P1111cc (E304026-12) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                   | ND     | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                              | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                             | ND     | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                     | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                                 | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                       | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                   | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                                    | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                            | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                                    | ND     | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                          | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                                 | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                            |        | 112 %           | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                           |        | 116 %           | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                      |        | 102 %           | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                            |        | 110 %           | 75-125 |                 | "       | "         | "         | "           |       |

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Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

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Long Beach, CA 90815

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## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                               | Result | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|-----------------------------------------------------------------------|--------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SS1, P135cc (E304026-13) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                              | ND     | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                        | ND     | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                    | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                 | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                              | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                    | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                            | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                 | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                  | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                              | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                               | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                       | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                               | ND     | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                 | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                     | 0.73   | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                             | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                            | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                              | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                             | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                       |        | 117 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                      |        | 124 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                 |        | 103 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                       |        | 103 %           | 75-125 | "               | "       | "         | "         | "           |       |

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## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                               | Result      | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|-----------------------------------------------------------------------|-------------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SS2, P135cc (E304026-14) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |             |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                              | ND          | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                         | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                        | ND          | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                          | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                          | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                    | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                  | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                 | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                              | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                    | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                            | ND          | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                 | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                  | ND          | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                              | ND          | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                               | ND          | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                       | ND          | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                               | ND          | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                 | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| <b>Tetrachloroethene</b>                                              | <b>0.21</b> | <b>0.10</b>     | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                          | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                             | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                            | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                              | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                             | ND          | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                       |             | 114 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                      |             | 124 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                 |             | 102 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                       |             | 124 %           | 75-125 | "               | "       | "         | "         | "           |       |

# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                               | Result | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|-----------------------------------------------------------------------|--------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SS3, P135cc (E304026-15) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                              | ND     | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                        | ND     | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                    | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                 | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                              | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                    | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                            | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                 | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                  | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                              | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                               | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                       | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                               | ND     | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                 | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                     | 0.35   | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                             | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                            | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                              | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                             | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                       |        | 109 %           | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                      |        | 122 %           | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                 |        | 97.7 %          | 75-125 |                 | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                       |        | 113 %           | 75-125 |                 | "       | "         | "         | "           |       |

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2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangcl

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                    | Result | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|----------------------------------------------------------------------------|--------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SV-1-5', P1111cc (E304026-16) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                   | ND     | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                              | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                             | ND     | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                         | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                     | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                                 | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                       | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                   | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                                    | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                            | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                                    | ND     | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                          | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                                 | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                            |        | 114 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                           |        | 122 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                      |        | 101 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                            |        | 109 %           | 75-125 | "               | "       | "         | "         | "           |       |

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2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV

### H&P Mobile Geochemistry, Inc.

| Analyte                                                                     | Result | Reporting Limit | Units  | Dilution Factor | Batch   | Prepared  | Analyzed  | Method      | Notes |
|-----------------------------------------------------------------------------|--------|-----------------|--------|-----------------|---------|-----------|-----------|-------------|-------|
| SV-1-15', P1202cc (E304026-17) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13 |        |                 |        |                 |         |           |           |             |       |
| 1,1-Difluoroethane (LCC)                                                    | ND     | 0.50            | ug/l   | 0.05            | ED30906 | 09-Apr-13 | 09-Apr-13 | H&P 8260 SV |       |
| Dichlorodifluoromethane (F12)                                               | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Vinyl chloride                                                              | ND     | 0.05            | "      | "               | "       | "         | "         | "           |       |
| Chloroethane                                                                | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Trichlorofluoromethane (F11)                                                | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethene                                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Methylene chloride (Dichloromethane)                                        | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2 Trichlorotrifluoroethane (F113)                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| trans-1,2-Dichloroethene                                                    | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1-Dichloroethane                                                          | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| cis-1,2-Dichloroethene                                                      | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Chloroform                                                                  | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1-Trichloroethane                                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Carbon tetrachloride                                                        | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| 1,2-Dichloroethane (EDC)                                                    | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Benzene                                                                     | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Trichloroethene                                                             | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Toluene                                                                     | ND     | 1.0             | "      | "               | "       | "         | "         | "           |       |
| 1,1,2-Trichloroethane                                                       | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Tetrachloroethene                                                           | ND     | 0.10            | "      | "               | "       | "         | "         | "           |       |
| Ethylbenzene                                                                | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,1,2-Tetrachloroethane                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| m,p-Xylene                                                                  | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| o-Xylene                                                                    | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| 1,1,2,2-Tetrachloroethane                                                   | ND     | 0.50            | "      | "               | "       | "         | "         | "           |       |
| Surrogate: Dibromofluoromethane                                             |        | 116 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 1,2-Dichloroethane-d4                                            |        | 118 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: Toluene-d8                                                       |        | 103 %           | 75-125 | "               | "       | "         | "         | "           |       |
| Surrogate: 4-Bromofluorobenzene                                             |        | 101 %           | 75-125 | "               | "       | "         | "         | "           |       |

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2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
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Project Manager: Ms. Myma Rangel

Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV - Quality Control

### H&P Mobile Geochemistry, Inc.

| Analyte                               | Result | Reporting<br>Limit | Units | Spike<br>Level                 | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------------|--------|--------------------|-------|--------------------------------|------------------|------|----------------|-----|--------------|-------|
| <b>Batch ED30906 - EPA 5030</b>       |        |                    |       |                                |                  |      |                |     |              |       |
| <b>Blank (ED30906-BLK1)</b>           |        |                    |       | Prepared & Analyzed: 09-Apr-13 |                  |      |                |     |              |       |
| 1,1-Difluoroethane (LCC)              | ND     | 0.50               | ug/l  |                                |                  |      |                |     |              |       |
| Dichlorodifluoromethane (F12)         | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| Vinyl chloride                        | ND     | 0.05               | "     |                                |                  |      |                |     |              |       |
| Chloroethane                          | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| Trichlorofluoromethane (F11)          | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| 1,1-Dichloroethene                    | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| Methylene chloride (Dichloromethane)  | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| trans-1,2-Dichloroethene              | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| 1,1-Dichloroethane                    | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| cis-1,2-Dichloroethene                | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| Chloroform                            | ND     | 0.10               | "     |                                |                  |      |                |     |              |       |
| 1,1,1-Trichloroethane                 | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| Carbon tetrachloride                  | ND     | 0.10               | "     |                                |                  |      |                |     |              |       |
| 1,2-Dichloroethane (EDC)              | ND     | 0.10               | "     |                                |                  |      |                |     |              |       |
| Benzene                               | ND     | 0.10               | "     |                                |                  |      |                |     |              |       |
| Trichloroethene                       | ND     | 0.10               | "     |                                |                  |      |                |     |              |       |
| Toluene                               | ND     | 1.0                | "     |                                |                  |      |                |     |              |       |
| 1,1,2-Trichloroethane                 | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| Tetrachloroethene                     | ND     | 0.10               | "     |                                |                  |      |                |     |              |       |
| Ethylbenzene                          | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| 1,1,1,2-Tetrachloroethane             | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| m,p-Xylene                            | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| o-Xylene                              | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| 1,1,2,2-Tetrachloroethane             | ND     | 0.50               | "     |                                |                  |      |                |     |              |       |
| Surrogate: Dibromofluoromethane       | 2.71   |                    | "     | 2.50                           |                  | 109  | 75-125         |     |              |       |
| Surrogate: 1,2-Dichloroethane-d4      | 2.64   |                    | "     | 2.50                           |                  | 106  | 75-125         |     |              |       |
| Surrogate: Toluene-d8                 | 2.62   |                    | "     | 2.50                           |                  | 105  | 75-125         |     |              |       |
| Surrogate: 4-Bromofluorobenzene       | 2.76   |                    | "     | 2.50                           |                  | 110  | 75-125         |     |              |       |

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Long Beach, CA 90815

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Reported:  
16-Apr-13 10:11

## Volatile Organic Compounds by 8260SV - Quality Control H&P Mobile Geochemistry, Inc.

| Analyte                               | Result | Reporting<br>Limit | Units | Spike<br>Level                 | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------------|--------|--------------------|-------|--------------------------------|------------------|------|----------------|-----|--------------|-------|
| <b>Batch ED30906 - EPA 5030</b>       |        |                    |       |                                |                  |      |                |     |              |       |
| <b>LCS (ED30906-BS1)</b>              |        |                    |       | Prepared & Analyzed: 09-Apr-13 |                  |      |                |     |              |       |
| Dichlorodifluoromethane (F12)         | 3.82   | 0.50               | ug/l  | 5.00                           |                  | 76.3 | 70-130         |     |              |       |
| Vinyl chloride                        | 4.11   | 0.05               | "     | 5.00                           |                  | 82.2 | 70-130         |     |              |       |
| Chloroethane                          | 4.09   | 0.50               | "     | 5.00                           |                  | 81.8 | 70-130         |     |              |       |
| Trichlorofluoromethane (F11)          | 5.12   | 0.50               | "     | 5.00                           |                  | 102  | 70-130         |     |              |       |
| 1,1-Dichloroethene                    | 4.94   | 0.50               | "     | 5.00                           |                  | 98.7 | 70-130         |     |              |       |
| Methylene chloride (Dichloromethane)  | 4.70   | 0.50               | "     | 5.00                           |                  | 94.0 | 70-130         |     |              |       |
| 1,1,2 Trichlorotrifluoroethane (F113) | 4.88   | 0.50               | "     | 5.00                           |                  | 97.6 | 70-130         |     |              |       |
| trans-1,2-Dichloroethene              | 5.29   | 0.50               | "     | 5.00                           |                  | 106  | 70-130         |     |              |       |
| 1,1-Dichloroethane                    | 4.41   | 0.50               | "     | 5.00                           |                  | 88.3 | 70-130         |     |              |       |
| cis-1,2-Dichloroethene                | 5.06   | 0.50               | "     | 5.00                           |                  | 101  | 70-130         |     |              |       |
| Chloroform                            | 4.99   | 0.10               | "     | 5.00                           |                  | 99.8 | 70-130         |     |              |       |
| 1,1,1-Trichloroethane                 | 4.91   | 0.50               | "     | 5.00                           |                  | 98.1 | 70-130         |     |              |       |
| Carbon tetrachloride                  | 5.11   | 0.10               | "     | 5.00                           |                  | 102  | 70-130         |     |              |       |
| 1,2-Dichloroethane (EDC)              | 5.11   | 0.10               | "     | 5.00                           |                  | 102  | 70-130         |     |              |       |
| Benzene                               | 4.88   | 0.10               | "     | 5.00                           |                  | 97.6 | 70-130         |     |              |       |
| Trichloroethene                       | 4.82   | 0.10               | "     | 5.00                           |                  | 96.4 | 70-130         |     |              |       |
| Toluene                               | 5.13   | 1.0                | "     | 5.00                           |                  | 103  | 70-130         |     |              |       |
| 1,1,2-Trichloroethane                 | 4.55   | 0.50               | "     | 5.00                           |                  | 90.9 | 70-130         |     |              |       |
| Tetrachloroethene                     | 5.01   | 0.10               | "     | 5.00                           |                  | 100  | 70-130         |     |              |       |
| Ethylbenzene                          | 5.46   | 0.50               | "     | 5.00                           |                  | 109  | 70-130         |     |              |       |
| 1,1,1,2-Tetrachloroethane             | 4.88   | 0.50               | "     | 5.00                           |                  | 97.5 | 70-130         |     |              |       |
| m,p-Xylene                            | 10.3   | 0.50               | "     | 10.0                           |                  | 103  | 70-130         |     |              |       |
| o-Xylene                              | 5.07   | 0.50               | "     | 5.00                           |                  | 101  | 70-130         |     |              |       |
| 1,1,2,2-Tetrachloroethane             | 4.92   | 0.50               | "     | 5.00                           |                  | 98.4 | 70-130         |     |              |       |
| Surrogate: Dibromodifluoromethane     | 2.54   |                    | "     | 2.50                           |                  | 102  | 75-125         |     |              |       |
| Surrogate: 1,2-Dichloroethane-d4      | 2.59   |                    | "     | 2.50                           |                  | 104  | 75-125         |     |              |       |
| Surrogate: Toluene-d8                 | 2.76   |                    | "     | 2.50                           |                  | 111  | 75-125         |     |              |       |
| Surrogate: 4-Bromofluorobenzene       | 2.78   |                    | "     | 2.50                           |                  | 111  | 75-125         |     |              |       |

# H&P Mobile Geochemistry Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
760-804-9678 Phone  
760-804-9159 Fax

Leymaster Environmental Consulting, LLC  
5500 East Atherton St, Suite 210  
Long Beach, CA 90815

Project: LEY040913-SB2  
Project Number: 4200 SCOTT ST.  
Project Manager: Ms. Myrna Rangel

Reported:  
16-Apr-13 10:11

## Notes and Definitions

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

## Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2734 & 2740 approved for EPA 8260 and LUFT GC/MS

Certificate# 2742, 2745, & 2741 approved for LUFT

Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A  
Hexachlorobutadiene by EPA TO-15 & TO-14A  
Bromodichloromethane by EPA TO-15 & TO-14A  
1,2-Dichlorobenzene by EPA TO-15 & TO-14A  
Dichlorotetrafluoroethane by EPA TO-14A  
1,4-Dichlorobenzene by EPA TO-15 & TO-14A  
Benzene by EPA TO-15 & TO-14A  
Chlorobenzene by EPA TO-15 & TO-14A  
Ethyl benzene by EPA TO-15 & TO-14A  
Styrene by EPA TO-15 & TO-14A  
Toluene by EPA TO-15 & TO-14A  
Total Xylenes by EPA TO-15 & TO-14A  
1,1,1-Trichloroethane by EPA TO-15 & TO-14A  
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A  
1,1,2-Trichloroethane by EPA TO-15 & TO-14A  
1,1-Dichloroethane by EPA TO-15 & TO-14A  
1,1-Dichloroethene by EPA TO-15 & TO-14A  
1,2-Dichloroethane by EPA TO-15 & TO-14A  
1,2-Dichloropropane by EPA TO-15 & TO-14A  
Benzyl Chloride by EPA TO-15 & TO-14A  
Bromoform by EPA TO-15  
Bromomethane by EPA TO-15 & TO-14A  
Carbon tetrachloride by EPA TO-15 & TO-14A  
Chloroethane by EPA TO-15 & TO-14A  
Chloroform by EPA TO-15 & TO-14A  
Chloromethane by EPA TO-15 & TO-14A  
cis-1,2-Dichloroethene by EPA TO-15 & TO-14A  
cis-1,3-Dichloropropene by EPA TO-15 & TO-14A  
Methylene chloride by EPA TO-15 & TO-14A  
Tetrachloroethane by EPA TO-15 & TO-14A  
trans-1,2-Dichloroethene by EPA TO-15  
trans-1,3-Dichloropropene by EPA TO-15 & TO-14A  
Trichloroethene by EPA TO-15 & TO-14A  
Vinyl chloride by EPA TO-15 & TO-14A  
2-Butanone by EPA TO-15  
4-Methyl-2-Pentanone by EPA TO-15  
Hexane by EPA TO-15  
Methyl tert-butyl ether by EPA TO-15  
Vinyl acetate by EPA TO-15

Dibromochloromethane by EPA TO-15  
1,3-Dichlorobenzene by EPA TO-15 & TO-14A  
Trichlorofluoromethane by EPA TO-14A  
Naphthalene by H&P SOP TO-15/GC-MS  
1,2-Dibromoethane (EDB) by EPA TO-15 & TO-14A  
1,2-Dibromo-3-chloropropane by EPA TO-15  
1,3-Butadiene by EPA TO-15  
1,1,2-Trichlorotrifluoroethane by EPA TO-15 & TO-14A  
Carbon disulfide by EPA TO-15  
1,4-Dioxane by EPA TO-15

This certification applies to samples analyzed in stainless canisters.

## Chain of Custody Record

**Hi-P**  
Mobile  
Geochemistry  
Inc.

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159  
1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 09/09/13  
H&P Project # LEY 041  
Outside Lab:

[illegible]

# Chain of Custody Record

**Hi-P**  
Mobile  
Geochemistry  
Inc.

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159  
 1855 Coronada Ave., Signal Hill, CA 90755 • ph 800.834.9888

**Deaf:**

H&amp;P Project #

**Outside Lab:**

**Client:**

**Address:**

## ACKNOWLEDGMENTS

Email:

LYMASTER

500 E Anderson

Long Beach, CA 90815

My email  
LEYNASTER.COM

Collector:

Client Project #

**Location:**

שלח.

A.  $\sqrt{P_{1V14T}}$

\_\_\_\_\_

2002 Scott D

02 } 453-5570 ENV

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Page: 5  
dyRNA

4

**Geotracker EDF:**

Global ID:

**Excel EDD:**

**Special Instructions:**

Lab Work Order # E309026 Batch # EP30906

[illegible]

Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

**ATTACHMENT II**

**Radon Analytical**

| Radon Analysis (EPA Method GS: Grab Sample/Scintillation Cell counting)                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                    |            |       |          |                                         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------|-------|----------|-----------------------------------------|--------|------------|--------------|---------------|-----------------------------------------------------------------------|---------|-----------------|--------------|-------------------------|-------------|------|
| For Leymaster Environmental                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                    |            |       |          | Client Project Number: 4200 Scott Drive |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Samples Collected by: Myrna Rangel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |            |       |          | Sample Dates: 4/09/13                   |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Site: 4200 Scott Drive, Newport Beach, CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |            |       |          | Sample containers: Tediator bags        |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Analysts: Doug Hammond                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                    |            |       |          | Assumed Site Pressure: 1.00 atm         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Phone: 310-490-7896                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    |            |       |          | Based on an elevation of 50 ft          |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| email: dhammond@usc.edu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                    |            |       |          | Time Zone adjustment: add to decay time |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                    |            |       |          | 0 hours                                 |        |            |              |               | Collect (PDT)                                                         |         |                 |              |                         |             |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                    |            |       |          |                                         |        |            |              |               | Run (PDT)                                                             |         |                 |              |                         |             |      |
| Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                    | Collection |       | Analysis |                                         |        |            |              |               |                                                                       |         | Lab Duplicates  |              |                         |             |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Date                                                               | time       | Date  | time     | Vol run                                 | Conc.  | ±1 sig     | mean         | ±1ssd         |                                                                       |         |                 |              | Notes                   |             |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                    | (PDT)      |       | (PDT)    | (cc)                                    | pCi/L  | pCi/L      | pCi/L        | pCi/L         |                                                                       |         |                 |              |                         |             |      |
| Received 4/09/13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                    |            |       |          |                                         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Radon Ambient                                                      | 4/9/13     | 11:50 | 4/9/13   | 15:15                                   | 120    | 0.58       | 0.06         |               |                                                                       |         |                 |              |                         |             |      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SS2-Radon                                                          | 4/9/13     | 11:40 | 4/9/13   | 15:21                                   | 40     | 207        | 10           | 207           | 0                                                                     |         |                 |              |                         |             |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | lab dupe                                                           | 4/9/13     | 11:40 | 4/9/13   | 15:23                                   | 40     | 207        | 10           |               |                                                                       |         |                 |              |                         |             |      |
| Uncertainty given in pCi/liter is based on counting statistics for low activity samples. For high activity samples uncertainty is ±5%.<br>The Lower Limit of Detection for Rn (95% confidence level as recommended by EPA 402-R-95-012, Oct. 97) is 0.14 pCi/liter.<br>Results are reported based on standardization with NIST-traceable radon sources.<br>These results are for application of naturally-occurring radon as a tracer of soil vapor intrusion, but are not intended for evaluation of radon hazards. |                                                                    |            |       |          |                                         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Results corrected to in situ pressure as noted above                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                    |            |       |          |                                         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Raw Data, Calculation factors, and Analytical Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                    |            |       |          |                                         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date                                                               | Time       | Date  | Time     | Count in cell/ch                        | He eff | Air/He eff | Vol run (cc) | Press factor  | obs dpm                                                               | sig dpm | Decay T (hours) | Decay factor | Concentration dpm/liter | count stats |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                    | (PDT)      |       | (PDT)    |                                         |        |            |              |               |                                                                       |         |                 |              | pCi/liter               | Notes       |      |
| Received 4/09/13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                    |            |       |          |                                         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Radon Ambient                                                      | 4/9/13     | 11:50 | 4/9/13   | 15:15                                   | 82/32  | 0.743      | 0.95         | 120           | 1.00                                                                  | 0.11    | 0.01            | 3.4          | 1.026                   | 1.28        | 0.58 |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SS2-Radon                                                          | 4/9/13     | 11:40 | 4/9/13   | 15:21                                   | 74/34  | 0.948      | 0.99         | 40            | 1.00                                                                  | 16.77   | 0.13            | 3.7          | 1.028                   | 459         | 207  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | lab dupe                                                           | 4/9/13     | 11:40 | 4/9/13   | 15:23                                   | 61/33  | 0.821      | 0.99         | 40            | 1.00                                                                  | 14.52   | 0.12            | 3.7          | 1.028                   | 459         | 207  |
| Decay corrections based on Rn decay constant of 0.1813 per day                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                    |            |       |          |                                         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Conversion from dpm based on 0.4504 pCi/dpm                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                    |            |       |          |                                         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Blanks are negligible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                    |            |       |          |                                         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Definitions:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                    |            |       |          |                                         |        |            |              |               |                                                                       |         |                 |              |                         |             |      |
| Cell/ch:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Counting cell and channel used                                     |            |       |          |                                         |        |            |              | sig dpm       | uncertainty (± 1 sig) in dpm based on counting statistics             |         |                 |              |                         |             |      |
| He eff:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cell and counter efficiency using helium matrix                    |            |       |          |                                         |        |            |              | Decay T:      | time elapsed from sampling to analysis                                |         |                 |              |                         |             |      |
| Air/He:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Correction for matrix counting gas density                         |            |       |          |                                         |        |            |              | Decay factor: | Correction factor for decay from collection to analysis               |         |                 |              |                         |             |      |
| Sample vol:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Volume analyzed (cc)                                               |            |       |          |                                         |        |            |              | dpm/liter:    | Radon concentration in disintegrations per minute per liter of sample |         |                 |              |                         |             |      |
| Press factor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Correction to in situ pressure based on collection altitude        |            |       |          |                                         |        |            |              | pCi/liter:    | Radon concentration in pCi/liter                                      |         |                 |              |                         |             |      |
| obs dpm:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | observed radon activity (disintegrations per minute) when analyzed |            |       |          |                                         |        |            |              | count stats:  | uncertainty in observed radon based on counting statistics            |         |                 |              |                         |             |      |