# APPENDIX C
# CDM (2000C) REPORT

**CDM** Camp Dresser & McKee Inc.

consulting
engineering
construction
operations

18881 Von Karman Avenue, Suite 650
Irvine, California 92612
Tel: 949 752-5452 Fax: 949 752-1307

November 2, 2000

Ms. Maria Hoye, Esq.
Latham & Watkins
633 West Fifth Street, Suite 4000
Los Angeles, California 90071-2007

Subject: Report of Sampling and Analysis of Soil Gas for Methane
Phase 2 Portion of Playa Vista
CDM Project Number 10610-30928.RT.RPT

Dear Ms. Hoye:

Camp Dresser & McKee Inc. (CDM) observed the collection of soil gas samples from 215 locations within Areas A, B, C, and D (Phase 2 Portion) of Playa Vista between October 2, and 10, 2000. The sampling was conducted to comply with of the City of Los Angeles Department of Building and Safety and Planning requirements for baseline conditions characterization for the Phase 2 Environmental Impact Statement and Environmental Impact Report. The sampling was conducted in Areas A, B, and C under a coastal development permit exemption issued by the California Coastal Commission on September 22, 2000, amended October 6, 2000. This report summarizes the sampling and analytical procedures and laboratory testing results. Interpretation of the laboratory results will be communicated separately.

Soil gas sampling and analyses was conducted in accordance with the Protocol developed for the earlier *Sampling and Analysis of Soil Gas for Methane Within Tracts 49104-01, -03, -05, and –06 at Playa Vista* submitted to the City of Los Angeles Department of Building and Safety (LADBS) on August 10, 2000. All analytical testing was accomplished in accordance with *Test Methods for Evaluating Solid Waste Physical/Chemical Parameters, SW-846, Third Edition.*

Sampling locations were spaced on a 300-foot grid in areas of future development in Areas A, B, a small portion of C, and the Phase 2 portion of Area D. Sample locations were spaced on a 500-foot grid in the Ballona Wetlands, which comprises most of Area B. Figure 1 shows the sampling locations.

## 1.0 Sampling and Analyses

### *1.1 Sample Collection*

The soil gas samples were collected by Scientific Geochemical Services (SGS) of Casper, Wyoming, using a method specified by Exploration Technologies, Inc. (ETI) described in Attachment A. Sampling locations were assigned a four-digit identification number



**PRIVILEGED AND CONFIDENTIAL**
**DRAFT FOR DISCUSSION PURPOSES ONLY**

which also corresponds to the sample number. Before collecting each sample, two 125 milliliters (ml) and two 22 ml sample bottles fitted with septum-lined caps were prepared by flushing with nitrogen and evacuating to a vacuum of 25 inches of mercury (25" Hg).

Prior to sample collection, a ½-inch outside diameter bar was used to drive a 4-foot deep hole at each of the sampling locations. The bar was removed and a 5-foot, ½-inch outside diameter, 1/8-inch inside diameter hollow stainless steel sampling probe was inserted into the hole, and the tip driven approximately 6 additional inches into undisturbed soil. The probe was fitted with a 3-way plastic valve, a 60 cubic centimeter (cc) syringe to remove the soil gas and fill the sample bottles, and a hypodermic needle to penetrate the septum of the sample bottle to transfer the soil gas into the bottle.

Initially, the 3-way valve was turned so that it was open to the atmosphere and a new syringe was filled with atmospheric air. A 125-ml sample bottle was placed over the needle, penetrating the septum. The vacuum of the bottle was allowed to evacuate the syringe. The syringe was re-filled with atmospheric air and the bottle over pressurized by injecting approximately 60 cc of soil gas. This sample served as a blank. The valve was then turned to receive soil gas. Approximately 15 cc of gas from within the probe was purged using the syringe. The syringe was filled with soil gas and two 22-ml sample bottles were filled in the same manner as the blank. The Jerome 631-X hydrogen sulfide analyzer was attached to the probe and the 3-way valve was turned so soil gas could be withdrawn directly from the subsurface using the air pump within the hydrogen sulfide analyzer. The analyzer was allowed to withdraw soil gas for one minute and the hydrogen sulfide reading was recorded in the field log book. The 3-way valve was returned for use with the syringe and a final soil gas sample was collected with a 125 ml sample bottle in the same manner as the other samples. The septum on each sample bottle was sealed using GE brand Silicone II sealant after each bottle was filled.

The sampling probe was decontaminated between each use with a solution of water and detergent followed by a distilled water rinse. The probe was flushed with compressed air. A clean, unused syringe and hypodermic needle was used and discarded after each sample. Sampling activities were noted and logged in the field book, and samples were labeled, listed on chain of custody forms (provided in Attachment B) and shipped to the analytical laboratory for testing.

Soil gas sampling in much of Area B could not be completed as the water table was too close to the land surface. The intended sample collection depth of 4.5 feet below ground surface was below the water table throughout much of the Ballona Wetland. In addition, no sample was collected at location 6078 (Area A) due to access difficulties.

### *1.2 Analyses*

All samples were tested for light hydrocarbons (C1 to C4 range), and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA 8000 and 5000 series methods respectively. All analyses were performed by Microseeps at the University of Pittsburgh Applied Research Center in Pittsburgh, Pennsylvania. Analyte reporting limits for methane are 0.04 parts per million by volume (ppmv), 0.01 ppmv for ethane and ethene, and 0.03 ppmv for propane, propene, i-butane and n-butane. All samples were also analyzed in the field for hydrogen sulfide using a Jerome 631-X hydrogen sulfide analyzer. Ten percent of the soil gas samples were intended for compositional analyses of gases in addition to methane. However, concentrations of methane in the samples were sufficiently low that these analyses were not conducted.

## 2.0 Analyses Results

### *2.1 Light Hydrocarbons*

The analytical data for light hydrocarbons are provided in attached Table 1. Laboratory reported data are included in Appendix B. The following tables summarize the maximum and minimum concentrations.

**Light hydrocarbons in soil gas summary**

| Statistical Parameter | Light Hydrocarbon statistics [all measurements in parts per million per volume (ppmv)] | | | | | | |
|---|---|---|---|---|---|---|---|
| | Methane | Ethane | Ethylene | Propane | Propylene | i-Butane | n-Butane |
| Frequency of detection | 100% | 98% | 93% | 49% | 48% | 16% | 20% |
| Minimum | 0.85 | <0.01 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| Maximum | 159,900 | 709.93 | 1.14 | 2.30 | 0.92 | 0.63 | 0.71 |

**Maximum and minimum detection locations by sample number**

| Locations with: | Methane | Ethane | Ethylene | Propane | Propylene | i-Butane | n-Butane |
|---|---|---|---|---|---|---|---|
| Minimum value | 8004 | 6043, 7038, 7054, 8004, 8009 | 6024, 6043, 6073, 6076, 7038, 7047, 7050, 7052, 7054, 7060, 8004, 8009, 8039, 9011 | 109 locations | 111 locations | 181 locations | 173 locations |
| Maximum value | 9011 | 9011 | 9029 | 9029 | 9014 | 9003 | 8010 |

With the exception of methane and a few of the detections of ethane, ethylene, and propane, nearly all C1-C4 compound concentrations were below 1 ppmv for all samples.

Shallow soil gas methane concentrations ranged from 0.48 ppmv in sample 8004 to 159,900 ppmv in sample 9011. The mean methane concentration of all samples was 1,220.16 ppmv. However, the median methane concentration of all samples was 1.92 ppmv, indicating that most of the detections were well bellow 5 ppmv, but that the data included a few relatively large detections accounting for the larger mean. Two of the 215 soil gas samples had methane concentrations greater than the lower explosive limit of 5% by volume. The two samples were from locations 9003 and 9011. These samples were collected in the south central part of Area D (Figure 1).

The highest methane concentrations in soil gas were detected in Area D at locations 9003, 9004, 9007 and 9011. Methane concentrations in these samples ranged from 18,200 ppmv to 159,900 ppmv. The sampling locations are adjacent to each other, and constitute the area of Playa Vista having soil gas with the highest methane concentration measured during this sampling event. Nearby samples contain methane concentrations ranging from 100 to 480 ppmv. Methane concentrations drop off rapidly to the south and slightly less rapidly to the north and east. Methane concentrations in Areas A, B, and C were less than 9 ppmv.

Ethane concentrations ranged from non-detect at <0.01 ppmv at four locations to 709.93 ppmv at sample location 9011. Most ethane detections were below 1 ppmv. The few higher detections are associated with samples having high methane concentrations. Ethylene concentrations ranged from non-detect at <0.01 ppmv at fourteen locations to 1.14 ppmv at sample location 9029. Most ethylene detections were below 0.10 ppmv. Higher ethylene detections were generally associated with samples having high concentrations of methane. However, sample 9011, which had the highest methane concentration of all samples tested had no detection of ethylene at <0.01 ppmv.

Propane, propylene, isobutane, and n-butane concentrations ranged from non-detect at <0.03 ppmv to 2.30, 0.92, 0.63, and 0.71 ppmv respectively. Less than half of the samples had detectable concentrations of these gases. Concentrations for each of these gases were well below 0.10 ppmv in nearly all samples where the gases were detected.

### 2.2 *Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)*

Benzene, toluene, ethyl benzene, and xylene (BTEX) were analyzed at the 215 sampling locations. The laboratory reporting limit for all BTEX compounds was 0.07 ppmv . The laboratory report summarizing the analytical data is provided in Appendix B.

Benzene analyses results ranged from non-detect to 1.05 ppmv in sample 6044. Benzene was detected in only two of the 215 samples tested. Toluene was detected in 15 of the soil

gas samples, with the highest detection at 0.30 in sample 7046. Ethyl benzene was detected in five samples with a maximum concentration of 1.11 ppmv at location 6019. Total xylenes were detected in nine samples with a maximum detection of 0.92 ppmv in sample 6064.

### *2.3 Hydrogen Sulfide*

Hydrogen sulfide concentrations were measured using a Jerome 631-X hydrogen sulfide analyzer. The results of the measurements are summarized on Table 2. The instrument detection range is between 0.003 and 50 parts per million (ppm). The instrument can report concentrations at 0.001 and 0.002 ppm, however, according to the manufacture, these concentrations are below the range of instrument accuracy. Concentrations at many of the sampling locations were reported by the instrument at 0.001 and 0.002 ppm and are considered estimated.

Hydrogen sulfide was detected at 0.003 ppmv or greater in 31 of the 215 samples tested. The highest hydrogen sulfide concentration was 0.023 ppmv at location 9014.

Sincerely,

CAMP DRESSER & McKEE INC.

Michele Zych, R. G.
Project Manager

Mackey Smith
Vice President

cc: Mr. David Nelson, PCC
Mr. Steve Ross, PCC
Mr. Marc Huffman, PCC

Attachment A – Soil Gas Sampling Methodology
Attachment B – Laboratory Reports and Chain-of-Custody Forms

**Privileged and Confidential**
**Draft for Discussion Purposes Only**

Table 1
Summary of Analytical Results
Light Hydrocarbons (C1-C4) - Soil Gas Samples
Playa Vista
Phase 2 Area

| Sample ID | Date Sampled | Methane % V | Methane ppmv | Ethane ppmv | Ethylene ppmv | Propane ppmv | Propylene ppmv | Isobutane ppmv | N-Butane ppmv |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | **Area A** | | | | |
| 6001 | 10/02/00 | * | 4.42 | 0.09 | 0.08 | 0.04 | 0.07 | <0.03 | <0.03 |
| 6002 | 10/02/00 | * | 4.04 | 0.57 | 0.83 | 0.23 | 0.67 | 0.06 | 0.12 |
| 6003 | 10/02/00 | * | 1.13 | 0.04 | 0.04 | <0.03 | 0.05 | <0.03 | <0.03 |
| 6004 | 10/03/00 | * | 2.11 | 0.08 | 0.08 | 0.06 | 0.05 | <0.03 | <0.03 |
| 6005 | 10/03/00 | * | 1.69 | 0.04 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6006 | 10/03/00 | * | 1.56 | 0.05 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6007 | 10/02/00 | * | 0.99 | 0.02 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6008 | 10/02/00 | * | 0.70 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6009 | 10/02/00 | * | 1.79 | 0.08 | 0.09 | 0.04 | 0.07 | <0.03 | <0.03 |
| 6010 | 10/02/00 | * | 2.33 | 0.11 | 0.09 | 0.06 | 0.06 | <0.03 | <0.03 |
| 6011 | 10/03/00 | * | 1.09 | 0.05 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6012 | 10/03/00 | * | 1.27 | 0.10 | 0.08 | 0.04 | 0.06 | <0.03 | <0.03 |
| 6013 | 10/03/00 | * | 1.38 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6014 | 10/02/00 | * | 1.50 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6015 | 10/02/00 | * | 1.16 | 0.04 | 0.03 | <0.03 | 0.04 | <0.03 | <0.03 |
| 6016 | 10/02/00 | * | 1.94 | 0.06 | 0.05 | 0.03 | 0.05 | <0.03 | <0.03 |
| 6017 | 10/02/00 | * | 1.16 | 0.04 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6018 | 10/03/00 | * | 1.21 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6019 | 10/03/00 | * | 1.46 | 0.06 | 0.04 | 0.03 | <0.03 | <0.03 | <0.03 |
| 6020 | 10/03/00 | * | 1.59 | 0.05 | 0.05 | 0.03 | <0.03 | <0.03 | <0.03 |
| 6021 | 10/02/00 | * | 1.48 | 0.02 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6022 | 10/02/00 | * | 1.44 | 0.05 | 0.04 | <0.03 | 0.05 | <0.03 | <0.03 |
| 6023 | 10/03/00 | * | 1.50 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6024 | 10/03/00 | * | 0.54 | 0.01 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6025 | 10/03/00 | * | 1.30 | 0.09 | 0.09 | 0.03 | 0.08 | <0.03 | <0.03 |
| 6026 | 10/03/00 | * | 1.36 | 0.06 | 0.04 | 0.03 | <0.03 | <0.03 | <0.03 |
| 6027 | 10/02/00 | * | 1.30 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6028 | 10/02/00 | * | 1.11 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | 0.08 |
| 6029 | 10/03/00 | * | 2.85 | 0.06 | 0.08 | 0.04 | 0.06 | <0.03 | 0.07 |
| 6030 | 10/03/00 | * | 1.27 | 0.09 | 0.09 | 0.03 | 0.06 | <0.03 | <0.03 |
| 6031 | 10/03/00 | * | 1.62 | 0.04 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6032 | 10/03/00 | * | 1.23 | 0.04 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6033 | 10/03/00 | * | 1.48 | 0.08 | 0.06 | 0.03 | 0.05 | <0.03 | <0.03 |
| 6034 | 10/03/00 | * | 2.00 | 0.08 | 0.08 | 0.04 | <0.03 | <0.03 | <0.03 |
| 6035 | 10/03/00 | * | 1.56 | 0.09 | 0.09 | 0.04 | 0.06 | <0.03 | <0.03 |
| 6036 | 10/03/00 | * | 1.44 | 0.07 | 0.07 | 0.03 | <0.03 | <0.03 | <0.03 |
| 6037 | 10/03/00 | * | 1.48 | 0.09 | 0.08 | 0.04 | 0.07 | <0.03 | <0.03 |
| 6038 | 10/03/00 | * | 1.38 | 0.02 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6039 | 10/03/00 | * | 1.88 | 0.06 | 0.06 | 0.03 | 0.06 | <0.03 | <0.03 |
| 6040 | 10/03/00 | * | 1.59 | 0.08 | 0.08 | 0.04 | 0.05 | <0.03 | <0.03 |
| 6041 | 10/03/00 | * | 4.10 | 0.52 | 0.32 | 0.23 | 0.23 | 0.03 | <0.03 |
| 6042 | 10/03/00 | * | 3.94 | 0.37 | 0.25 | 0.14 | 0.17 | 0.03 | <0.03 |
| 6043 | 10/04/00 | * | 0.78 | <0.01 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6044 | 10/04/00 | * | 1.75 | 0.06 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6045 | 10/04/00 | * | 1.24 | 0.07 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6046 | 10/04/00 | * | 1.56 | 0.06 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6047 | 10/04/00 | * | 1.96 | 0.09 | 0.07 | 0.04 | 0.06 | <0.03 | <0.03 |
| 6048 | 10/04/00 | * | 1.96 | 0.06 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6049 | 10/04/00 | * | 1.34 | 0.04 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6050 | 10/04/00 | * | 1.49 | 0.02 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6051 | 10/04/00 | * | 1.46 | 0.08 | 0.08 | 0.04 | 0.06 | <0.03 | <0.03 |
| 6052 | 10/04/00 | * | 1.30 | 0.06 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6053 | 10/04/00 | * | 1.71 | 0.06 | 0.06 | 0.03 | 0.03 | <0.03 | <0.03 |
| 6054 | 10/04/00 | * | 1.28 | 0.02 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6055 | 10/04/00 | * | 2.11 | 0.06 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6056 | 10/04/00 | * | 2.10 | 0.05 | 0.08 | <0.03 | 0.05 | <0.03 | <0.03 |
| 6057 | 10/04/00 | * | 1.08 | 0.05 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 |

**Privileged and Confidential**
**Draft for Discussion Purposes Only**

Table 1
Summary of Analytical Results
Light Hydrocarbons (C1-C4) - Soil Gas Samples
Playa Vista
Phase 2 Area

| Sample ID | Date Sampled | Methane % V | Methane ppmv | Ethane ppmv | Ethylene ppmv | Propane ppmv | Propylene ppmv | Isobutane ppmv | N-Butane ppmv |
|---|---|---|---|---|---|---|---|---|---|
| 6058 | 10/04/00 | * | 1.07 | 0.05 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6059 | 10/04/00 | * | 1.42 | 0.09 | 0.07 | <0.03 | 0.06 | <0.03 | <0.03 |
| 6060 | 10/04/00 | * | 2.07 | 0.05 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6061 | 10/04/00 | * | 1.20 | 0.02 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6062 | 10/04/00 | * | 0.68 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6063 | 10/04/00 | * | 2.38 | 0.13 | 0.19 | 0.06 | 0.18 | <0.03 | <0.03 |
| 6064 | 10/04/00 | * | 1.20 | 0.05 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6065 | 10/04/00 | * | 0.97 | 0.01 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6066 | 10/04/00 | * | 1.24 | 0.06 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6067 | 10/04/00 | * | 2.06 | 0.08 | 0.04 | <0.03 | 0.06 | <0.03 | <0.03 |
| 6068 | 10/04/00 | * | 1.10 | 0.07 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6069 | 10/04/00 | * | 2.51 | 0.27 | 0.27 | 0.10 | 0.19 | <0.03 | <0.03 |
| 6070 | 10/04/00 | * | 0.91 | 0.04 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6071 | 10/04/00 | * | 1.22 | 0.06 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6072 | 10/04/00 | * | 1.08 | 0.03 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6073 | 10/04/00 | * | 1.71 | 0.07 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6074 | 10/04/00 | * | 1.47 | 0.08 | 0.03 | 0.03 | 0.05 | <0.03 | <0.03 |
| 6075 | 10/04/00 | * | 1.67 | 0.03 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6076 | 10/04/00 | * | 1.95 | 0.04 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 6077 | 10/04/00 | * | 1.74 | 0.12 | 0.03 | 0.06 | <0.03 | <0.03 | <0.03 |
| | | | | | **Area B** | | | | |
| 7026 | 10/10/00 | * | 8.63 | 0.10 | 0.07 | 0.04 | 0.05 | <0.03 | 0.19 |
| 7031 | 10/07/00 | * | 0.79 | 0.03 | 0.01 | <0.03 | <0.03 | <0.03 | 0.04 |
| 7032 | 10/10/00 | * | 2.14 | 0.06 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7033 | 10/10/00 | * | 11.12 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | 0.21 |
| 7035 | 10/07/00 | * | 3.11 | 0.09 | 0.07 | 0.04 | 0.05 | <0.03 | <0.03 |
| 7036 | 10/10/00 | * | 5.52 | 0.03 | 0.03 | <0.03 | <0.03 | <0.03 | 0.07 |
| 7038 | 10/09/00 | * | 2.22 | <0.01 | <0.01 | <0.03 | <0.03 | <0.03 | 0.08 |
| 7041 | 10/09/00 | * | 2.32 | 0.03 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7042 | 10/09/00 | * | 2.51 | 0.05 | 0.01 | <0.03 | <0.03 | <0.03 | 0.65 |
| 7043 | 10/09/00 | * | 1.87 | 0.02 | 0.01 | <0.03 | <0.03 | <0.03 | 0.16 |
| 7045 | 10/09/00 | * | 5.39 | 0.05 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7046 | 10/09/00 | * | 2.82 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7047 | 10/09/00 | * | 3.52 | 0.07 | <0.01 | 0.04 | <0.03 | <0.03 | 0.47 |
| 7048 | 10/09/00 | * | 3.09 | 0.09 | 0.02 | <0.03 | <0.03 | <0.03 | 0.07 |
| 7049 | 10/09/00 | * | 2.93 | 0.18 | 0.03 | 0.06 | <0.03 | <0.03 | 0.12 |
| 7050 | 10/09/00 | * | 0.91 | 0.02 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7051 | 10/09/00 | * | 2.36 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7052 | 10/09/00 | * | 2.28 | 0.08 | <0.01 | 0.03 | <0.03 | <0.03 | <0.03 |
| 7053 | 10/07/00 | * | 1.38 | 0.02 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7054 | 10/07/00 | * | 1.21 | <0.01 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7055 | 10/07/00 | * | 2.51 | 0.04 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7057 | 10/07/00 | * | 1.72 | 0.03 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7058 | 10/07/00 | * | 6.97 | 2.14 | 0.14 | 1.70 | 0.71 | 0.14 | <0.03 |
| 7059 | 10/07/00 | * | 1.71 | 0.05 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7060 | 10/6/00 | * | 1.80 | 0.03 | < 0.01 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 7061 | 10/6/00 | * | 1.92 | 0.06 | 0.02 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 7062 | 10/07/00 | * | 1.87 | 0.08 | 0.04 | <0.03 | 0.03 | <0.03 | <0.03 |
| 7063 | 10/6/00 | * | 2.60 | 0.14 | 0.07 | 0.05 | 0.04 | < 0.03 | <0.03 |
| 7064 | 10/6/00 | * | 1.44 | 0.06 | 0.02 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 7065 | 10/07/00 | * | 1.75 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7066 | 10/6/00 | * | 3.50 | 0.24 | 0.08 | 0.09 | 0.07 | 0.03 | <0.03 |
| 7067 | 10/6/00 | * | 5.65 | 0.27 | 0.12 | 0.11 | 0.09 | < 0.03 | <0.03 |
| 7068 | 10/07/00 | * | 1.92 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7069 | 10/6/00 | * | 2.24 | 0.01 | 0.01 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 7070 | 10/6/00 | * | 1.40 | 0.09 | 0.07 | 0.03 | 0.05 | < 0.03 | <0.03 |
| 7071 | 10/07/00 | * | 2.13 | 0.04 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7072 | 10/07/00 | * | 1.11 | 0.07 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 |

**Privileged and Confidential**
**Draft for Discussion Purposes Only**

Table 1
Summary of Analytical Results
Light Hydrocarbons (C1-C4) - Soil Gas Samples
Playa Vista
Phase 2 Area

| Sample ID | Date Sampled | Methane % V | Methane ppmv | Ethane ppmv | Ethylene ppmv | Propane ppmv | Propylene ppmv | Isobutane ppmv | N-Butane ppmv |
|---|---|---|---|---|---|---|---|---|---|
| 7073 | 10/6/00 | * | 2.03 | 0.03 | 0.02 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 7074 | 10/6/00 | * | 1.80 | 0.10 | 0.09 | 0.04 | 0.07 | < 0.03 | <0.03 |
| 7075 | 10/07/00 | * | 2.34 | 0.02 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 7076 | 10/07/00 | * | 1.51 | 0.04 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 9077 | 10/9/00 | * | 1.55 | 0.07 | 0.03 | <0.03 | <0.03 | <0.03 | < 0.03 |
| 9078 | 10/7/00 | * | 1.26 | 0.01 | 0.01 | <0.03 | <0.03 | <0.03 | < 0.03 |
| | | | | | **Area C** | | | | |
| 8001 | 10/05/00 | * | 0.64 | 0.01 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 8002 | 10/05/00 | * | 1.15 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | 0.08 |
| 8003 | 10/05/00 | * | 1.56 | 0.06 | 0.03 | <0.03 | <0.03 | <0.03 | 0.07 |
| 8004 | 10/05/00 | * | 0.48 | <0.01 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 8005 | 10/05/00 | * | 0.99 | 0.06 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 |
| 8006 | 10/05/00 | * | 1.10 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 8007 | 10/6/00 | * | 2.37 | 0.12 | 0.18 | 0.05 | 0.12 | < 0.03 | <0.03 |
| 8008 | 10/6/00 | * | 5.32 | 0.40 | 0.66 | 0.17 | 0.45 | < 0.03 | <0.03 |
| 8009 | 10/05/00 | * | 0.84 | <0.01 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 8010 | 10/05/00 | * | 0.66 | 0.06 | 0.04 | <0.03 | <0.03 | <0.03 | 0.71 |
| 8011 | 10/6/00 | * | 1.13 | 0.06 | 0.03 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 8012 | 10/05/00 | * | 1.89 | 0.14 | 0.16 | 0.05 | 0.10 | <0.03 | <0.03 |
| 8013 | 10/6/00 | * | 1.85 | 0.13 | 0.04 | 0.04 | < 0.03 | < 0.03 | <0.03 |
| 8014 | 10/6/00 | * | 2.87 | 0.20 | 0.04 | 0.07 | < 0.03 | < 0.03 | <0.03 |
| 8015 | 10/05/00 | * | 1.53 | 0.05 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 8016 | 10/05/00 | * | 0.90 | 0.02 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 |
| 8017 | 10/6/00 | * | 2.09 | 0.09 | 0.03 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 8018 | 10/6/00 | * | 2.42 | 0.10 | 0.07 | 0.04 | 0.05 | < 0.03 | <0.03 |
| 8019 | 10/6/00 | * | 0.93 | 0.03 | 0.01 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 8020 | 10/6/00 | * | 4.30 | 0.06 | 0.03 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 8021 | 10/6/00 | * | 1.64 | 0.04 | 0.03 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 8022 | 10/6/00 | * | 5.43 | 0.59 | 0.82 | 0.27 | 0.66 | < 0.03 | <0.03 |
| 8023 | 10/05/00 | * | 0.75 | 0.05 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 |
| 8024 | 10/6/00 | * | 2.42 | 0.08 | 0.05 | < 0.03 | 0.03 | < 0.03 | <0.03 |
| 8025 | 10/6/00 | * | 3.50 | 0.18 | 0.10 | 0.05 | 0.07 | < 0.03 | <0.03 |
| 8026 | 10/05/00 | * | 1.07 | 0.04 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 |
| 8027 | 10/6/00 | * | 2.49 | 0.09 | 0.04 | 0.04 | 0.03 | < 0.03 | <0.03 |
| 8028 | 10/6/00 | * | 2.14 | 0.13 | 0.06 | 0.05 | 0.05 | < 0.03 | <0.03 |
| 8029 | 10/6/00 | * | 2.79 | 0.07 | 0.05 | < 0.03 | 0.04 | < 0.03 | <0.03 |
| 8030 | 10/05/00 | * | 1.38 | 0.05 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 |
| 8031 | 10/6/00 | * | 1.48 | 0.02 | 0.02 | < 0.03 | < 0.03 | < 0.03 | <0.03 |
| 8032 | 10/05/00 | * | 2.11 | 0.12 | 0.08 | 0.04 | 0.05 | <0.03 | <0.03 |
| 8033 | 10/05/00 | * | 1.58 | 0.10 | 0.05 | 0.03 | <0.03 | <0.03 | < 0.03 |
| 8034 | 10/05/00 | * | 0.89 | 0.05 | 0.03 | <0.03 | <0.03 | <0.03 | < 0.03 |
| 8035 | 10/05/00 | * | 0.82 | 0.03 | 0.01 | <0.03 | <0.03 | <0.03 | 0.06 |
| 8036 | 10/05/00 | * | 3.14 | 0.15 | 0.10 | 0.06 | 0.05 | <0.03 | < 0.03 |
| 8037 | 10/05/00 | * | 2.28 | 0.09 | 0.03 | 0.03 | <0.03 | <0.03 | < 0.03 |
| 8038 | 10/05/00 | * | 0.92 | 0.02 | <0.01 | <0.03 | <0.03 | <0.03 | < 0.03 |
| 8039 | 10/05/00 | * | 0.65 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | < 0.03 |
| 8040 | 10/05/00 | * | 1.74 | 0.10 | 0.06 | 0.05 | 0.04 | <0.03 | < 0.03 |
| 8041 | 10/05/00 | * | 1.92 | 0.07 | 0.09 | 0.03 | 0.09 | <0.03 | < 0.03 |
| 8042 | 10/05/00 | * | 0.71 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | < 0.03 |
| 8043 | 10/05/00 | * | 1.30 | 0.05 | 0.04 | <0.03 | <0.03 | <0.03 | < 0.03 |
| | | | | | **Area D** | | | | |
| 9002 | 10/11/00 | * | 2.34 | 0.12 | 0.11 | 0.04 | 0.10 | <0.03 | <0.03 |
| 9003 | 10/10/00 | 5.43 | * | 249.54 | 0.18 | 1.30 | 0.28 | 0.63 | 0.06 |
| 9004 | 10/10/00 | 1.82 | * | 96.38 | 0.22 | 2.12 | <0.03 | 0.45 | < 0.03 |
| 9005A** | 10/11/00 | * | 93.8 | 0.52 | 0.24 | 0.17 | 0.15 | 0.05 | 0.07 |
| 9005B** | 10/11/00 | * | 7.70 | 0.71 | 0.38 | 0.27 | 0.28 | 0.07 | 0.11 |
| 9006 | 10/11/00 | * | 6.84 | 0.32 | 0.32 | 0.12 | 0.20 | <0.03 | <0.03 |
| 9007 | 10/10/00 | 1.82 | * | 210.26 | 0.18 | 0.26 | 0.15 | 0.28 | < 0.03 |

**Privileged and Confidential**
**Draft for Discussion Purposes Only**

Table 1
Summary of Analytical Results
Light Hydrocarbons (C1-C4) - Soil Gas Samples
Playa Vista
Phase 2 Area

| Sample ID | Date Sampled | Methane % V | Methane ppmv | Ethane ppmv | Ethylene ppmv | Propane ppmv | Propylene ppmv | Isobutane ppmv | N-Butane ppmv |
|---|---|---|---|---|---|---|---|---|---|
| 9008 | 10/10/00 | * | 64.24 | 0.55 | 0.30 | 0.22 | 0.23 | 0.05 | < 0.03 |
| 9009 | 10/11/00 | * | 6.35 | 0.75 | 0.45 | 0.29 | 0.37 | 0.08 | 0.13 |
| 9010 | 10/11/00 | * | 4.78 | 0.31 | 0.30 | 0.10 | 0.20 | <0.03 | <0.03 |
| 9011 | 10/10/00 | 15.99 | * | 709.93 | < 0.01 | 1.88 | 0.12 | 0.60 | < 0.03 |
| 9012 | 10/10/00 | * | 6.31 | 0.60 | 0.76 | 0.22 | 0.57 | <0.03 | 0.11 |
| 9013 | 10/11/00 | * | 7.88 | 0.58 | 0.41 | 0.26 | 0.32 | 0.06 | 0.12 |
| 9014 | 10/11/00 | * | 194.9 | 1.19 | 0.97 | 0.57 | 0.92 | 0.11 | 0.20 |
| 9015 | 10/10/00 | * | 2.86 | 0.19 | 0.15 | 0.07 | 0.11 | <0.03 | < 0.03 |
| 9016 | 10/10/00 | * | 409.20 | 0.31 | 0.19 | 0.20 | 0.15 | 0.06 | < 0.03 |
| 9017 | 10/11/00 | * | 35.2 | 0.54 | 0.33 | 0.21 | 0.24 | 0.04 | 0.06 |
| 9018 | 10/11/00 | * | 9.37 | 0.50 | 0.12 | 0.27 | 0.08 | 0.07 | 0.10 |
| 9019 | 10/10/00 | * | 2.06 | 0.06 | 0.05 | <0.03 | <0.03 | <0.03 | < 0.03 |
| 9020 | 10/10/00 | 0.48 | * | 0.59 | 0.35 | 0.59 | 0.25 | 0.15 | 0.03 |
| 9021 | 10/11/00 | * | 59.2 | 0.54 | 0.32 | 0.23 | 0.21 | 0.07 | 0.10 |
| 9022 | 10/11/00 | 0.09 | * | 0.77 | 0.41 | 0.34 | 0.26 | 0.08 | 0.14 |
| 9023 | 10/10/00 | * | 3.29 | 0.15 | 0.11 | 0.06 | 0.05 | <0.03 | < 0.03 |
| 9024 | 10/10/00 | 0.41 | * | 0.61 | 0.33 | 0.47 | 0.24 | 0.10 | < 0.03 |
| 9025 | 10/11/00 | * | 8.94 | 0.69 | 0.42 | 0.30 | 0.32 | 0.07 | 0.13 |
| 9026 | 10/11/00 | * | 27.2 | 0.54 | 0.28 | 0.22 | 0.19 | 0.05 | 0.10 |
| 9027 | 10/10/00 | * | 3.62 | 0.18 | 0.07 | 0.07 | 0.07 | 0.04 | < 0.03 |
| 9028 | 10/11/00 | 0.10 | * | 0.22 | 0.11 | 0.25 | 0.07 | 0.08 | 0.10 |
| 9029 | 10/11/00 | 0.37 | * | 6.42 | 1.14 | 2.30 | 0.77 | 0.44 | 0.70 |
| 9030 | 10/11/00 | * | 7.21 | 0.50 | 0.27 | 0.13 | 0.19 | 0.05 | 0.08 |
| 9031 | 10/10/00 | * | 2.45 | 0.10 | 0.10 | 0.04 | 0.06 | <0.03 | < 0.03 |
| 9032 | 10/11/00 | * | 1.61 | 0.13 | 0.11 | 0.06 | 0.10 | <0.03 | <0.03 |
| 9033 | 10/11/00 | * | 4.18 | 0.21 | 0.13 | 0.10 | 0.09 | <0.03 | 0.04 |
| 9034 | 10/11/00 | * | 8.75 | 0.44 | 0.17 | 0.09 | 0.11 | <0.03 | <0.03 |
| 9035 | 10/11/00 | * | 4.99 | 0.40 | 0.49 | 0.16 | 0.32 | <0.03 | 0.05 |
| 9036 | 10/12/00 | * | 4.72 | 0.32 | 0.24 | 0.10 | 0.16 | < 0.03 | < 0.03 |
| 9037 | 10/11/00 | * | 4.61 | 0.34 | 0.23 | 0.09 | 0.16 | <0.03 | 0.04 |
| 9038 | 10/12/00 | * | 3.89 | 0.20 | 0.21 | 0.07 | 0.13 | < 0.03 | < 0.03 |
| 9039 | 10/11/00 | * | 7.68 | 0.54 | 0.23 | 0.15 | 0.21 | 0.04 | 0.06 |
| 9040 | 10/12/00 | * | 69.6 | 0.38 | 0.30 | 0.26 | 0.24 | 0.11 | 0.11 |
| 9041 | 10/11/00 | * | 20.3 | 0.23 | 0.17 | 0.08 | 0.12 | <0.03 | <0.03 |
| 9042 | 10/12/00 | * | 2.01 | 0.28 | 0.21 | 0.12 | 0.17 | < 0.03 | < 0.03 |
| 9043 | 10/11/00 | * | 4.49 | 0.24 | 0.16 | 0.09 | 0.11 | <0.03 | <0.03 |
| 9044 | 10/12/00 | * | 3.40 | 0.14 | 0.12 | 0.05 | 0.11 | < 0.03 | < 0.03 |
| 9045 | 10/11/00 | * | 2.85 | 0.12 | 0.06 | 0.04 | 0.06 | 0.06 | <0.03 |
| 9046 | 10/11/00 | * | 1.80 | 0.15 | 0.22 | 0.07 | 0.17 | <0.03 | <0.03 |
| 9047 | 10/11/00 | * | 1.21 | 0.14 | 0.10 | 0.04 | 0.09 | <0.03 | <0.03 |
| 9048 | 10/12/00 | * | 2.67 | 0.18 | 0.05 | 0.10 | 0.08 | 0.05 | 0.06 |
| 9049 | 10/12/00 | * | 2.70 | 0.22 | 0.15 | 0.08 | 0.10 | < 0.03 | < 0.03 |
| 9050 | 10/12/00 | * | 168 | 0.37 | 0.19 | 0.16 | 0.22 | 0.04 | 0.06 |
| 9051 | 10/12/00 | * | 2.05 | 0.20 | 0.14 | 0.09 | 0.11 | < 0.03 | < 0.03 |
| 9052 | 10/12/00 | * | 1.20 | 0.08 | 0.06 | 0.03 | 0.04 | < 0.03 | < 0.03 |
| 9053 | 10/12/00 | * | 1.98 | 0.09 | 0.04 | 0.05 | < 0.03 | < 0.03 | < 0.03 |
| 9054 | 10/12/00 | * | 1.29 | 0.12 | 0.07 | 0.05 | 0.09 | < 0.03 | < 0.03 |
| 9055 | 10/12/00 | 0.05 | * | 1.66 | 0.06 | 0.14 | 0.05 | 0.25 | 0.07 |

Notes:
ppmv - parts per million per volume
% V - percent volume
* - concentration for methane listed under other units
< - indicates not detected above reporting limits shown
** - Sample 9001 was mis-labeled in the field as 9005. The laboratory renamed the two samples labeled as 9005 as 9005A and 9005B.
The actual identity of samples 9001 and 9005 could not be determined.

**Privileged and Confidential**
**Draft for Discussion Purposes Only**

Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

| Sample ID | Date Sampled | $H_2S$ Concentration ppm |
|---|---|---|
| | **Tract 03** | |
| 6001 | 10/02/00 | 0.000 |
| 6002 | 10/02/00 | 0.000 |
| 6003 | 10/02/00 | 0.000 |
| 6004 | 10/03/00 | 0.000 |
| 6005 | 10/03/00 | 0.000 |
| 6006 | 10/03/00 | 0.000 |
| 6007 | 10/02/00 | 0.000 |
| 6008 | 10/02/00 | 0.000 |
| 6009 | 10/02/00 | 0.000 |
| 6010 | 10/02/00 | 0.000 |
| 6011 | 10/03/00 | 0.000 |
| 6012 | 10/03/00 | 0.001 |
| 6013 | 10/03/00 | 0.000 |
| 6014 | 10/02/00 | 0.000 |
| 6015 | 10/02/00 | 0.000 |
| 6016 | 10/02/00 | 0.000 |
| 6017 | 10/02/00 | 0.000 |
| 6018 | 10/03/00 | 0.000 |
| 6019 | 10/03/00 | 0.001 |
| 6020 | 10/03/00 | 0.001 |
| 6021 | 10/02/00 | 0.000 |
| 6022 | 10/02/00 | 0.001 |
| 6023 | 10/03/00 | 0.000 |
| 6024 | 10/03/00 | 0.000 |
| 6025 | 10/03/00 | 0.001 |
| 6026 | 10/03/00 | 0.000 |
| 6027 | 10/02/00 | 0.000 |
| 6028 | 10/02/00 | 0.000 |
| 6029 | 10/03/00 | 0.000 |
| 6030 | 10/03/00 | 0.000 |
| 6031 | 10/03/00 | 0.000 |
| 6032 | 10/03/00 | 0.000 |
| 6033 | 10/03/00 | 0.002 |
| 6034 | 10/03/00 | 0.000 |
| 6035 | 10/03/00 | 0.000 |
| 6036 | 10/03/00 | 0.000 |
| 6037 | 10/03/00 | 0.001 |
| 6038 | 10/03/00 | 0.000 |
| 6039 | 10/03/00 | 0.000 |
| 6040 | 10/03/00 | 0.000 |
| 6041 | 10/03/00 | 0.004 |
| 6042 | 10/03/00 | 0.000 |
| 6043 | 10/04/00 | 0.000 |

**Privileged and Confidential**
**Draft for Discussion Purposes Only**

Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

| Sample ID | Date Sampled | $H_2S$ Concentration ppm |
|---|---|---|
| 6044 | 10/04/00 | 0.000 |
| 6045 | 10/04/00 | 0.000 |
| 6046 | 10/04/00 | 0.000 |
| 6047 | 10/04/00 | 0.002 |
| 6048 | 10/04/00 | 0.000 |
| 6049 | 10/04/00 | 0.000 |
| 6050 | 10/04/00 | 0.000 |
| 6051 | 10/04/00 | 0.000 |
| 6052 | 10/04/00 | 0.000 |
| 6053 | 10/04/00 | 0.000 |
| 6054 | 10/04/00 | 0.000 |
| 6055 | 10/04/00 | 0.000 |
| 6056 | 10/04/00 | 0.000 |
| 6057 | 10/04/00 | 0.001 |
| 6058 | 10/04/00 | 0.000 |
| 6059 | 10/04/00 | 0.000 |
| 6060 | 10/04/00 | 0.000 |
| 6061 | 10/04/00 | 0.000 |
| 6062 | 10/04/00 | 0.000 |
| 6063 | 10/04/00 | 0.000 |
| 6064 | 10/04/00 | 0.004 |
| 6065 | 10/04/00 | 0.000 |
| 6066 | 10/04/00 | 0.000 |
| 6067 | 10/04/00 | 0.000 |
| 6068 | 10/04/00 | 0.000 |
| 6069 | 10/04/00 | 0.000 |
| 6070 | 10/04/00 | 0.002 |
| 6071 | 10/04/00 | 0.000 |
| 6072 | 10/04/00 | 0.000 |
| 6073 | 10/04/00 | 0.002 |
| 6074 | 10/04/00 | 0.000 |
| 6075 | 10/04/00 | 0.000 |
| 6076 | 10/04/00 | 0.001 |
| 6077 | 10/04/00 | 0.000 |
| | **Area B** | |
| 7026 | 10/10/00 | 0.000 |
| 7031 | 10/07/00 | 0.000 |
| 7032 | 10/10/00 | 0.000 |
| 7033 | 10/10/00 | 0.000 |
| 7035 | 10/07/00 | 0.000 |
| 7036 | 10/10/00 | No Reading Taken - Water |
| 7041 | 10/09/00 | No Reading Taken - Water |
| 7042 | 10/09/00 | 0.000 |
| 7043 | 10/09/00 | No Reading Taken - Water |

**Privileged and Confidential**
**Draft for Discussion Purposes Only**

Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

| Sample ID | Date Sampled | $H_2S$ Concentration ppm |
|---|---|---|
| 7045 | 10/09/00 | 0.000 |
| 7046 | 10/09/00 | 0.000 |
| 7047 | 10/09/00 | 0.000 |
| 7048 | 10/09/00 | 0.000 |
| 7049 | 10/09/00 | 0.000 |
| 7050 | 10/09/00 | 0.000 |
| 7051 | 10/09/00 | 0.000 |
| 7052 | 10/07/00 | 0.000 |
| 7052 | 10/09/00 | 0.000 |
| 7053 | 10/07/00 | 0.000 |
| 7054 | 10/07/00 | 0.000 |
| 7055 | 10/07/00 | 0.000 |
| 7058 | 10/07/00 | 0.000 |
| 7059 | 10/07/00 | 0.000 |
| 7060 | 10/06/00 | 0.000 |
| 7061 | 10/06/00 | 0.000 |
| 7062 | 10/07/00 | 0.000 |
| 7063 | 10/06/00 | 0.000 |
| 7064 | 10/06/00 | 0.000 |
| 7065 | 10/07/00 | 0.000 |
| 7066 | 10/06/00 | 0.001 |
| 7067 | 10/06/00 | 0.002 |
| 7068 | 10/07/00 | 0.000 |
| 7069 | 10/06/00 | 0.000 |
| 7070 | 10/06/00 | 0.000 |
| 7071 | 10/07/00 | 0.000 |
| 7072 | 10/07/00 | 0.000 |
| 7073 | 10/06/00 | 0.000 |
| 7074 | 10/06/00 | 0.000 |
| 7075 | 10/07/00 | 0.000 |
| 7076 | 10/07/00 | 0.000 |
| 9077 | 10/09/00 | 0.000 |
| 9078 | 10/07/00 | 0.000 |
| | **Area C** | |
| 8001 | 10/05/00 | 0.000 |
| 8002 | 10/05/00 | 0.000 |
| 8003 | 10/05/00 | 0.000 |
| 8004 | 10/05/00 | 0.000 |
| 8005 | 10/05/00 | 0.000 |
| 8006 | 10/05/00 | 0.000 |
| 8007 | 10/06/00 | 0.000 |
| 8008 | 10/06/00 | 0.000 |
| 8009 | 10/05/00 | 0.000 |
| 8010 | 10/05/00 | 0.000 |

**Privileged and Confidential**
**Draft for Discussion Purposes Only**

Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

| Sample ID | Date Sampled | $H_2S$ Concentration ppm |
|---|---|---|
| 8011 | 10/06/00 | 0.002 |
| 8012 | 10/05/00 | 0.000 |
| 8013 | 10/06/00 | 0.000 |
| 8014 | 10/06/00 | 0.007 |
| 8015 | 10/05/00 | 0.000 |
| 8016 | 10/05/00 | 0.000 |
| 8017 | 10/06/00 | 0.000 |
| 8018 | 10/06/00 | 0.000 |
| 8019 | 10/06/00 | 0.000 |
| 8020 | 10/06/00 | 0.000 |
| 8021 | 10/06/00 | 0.002 |
| 8022 | 10/06/00 | 0.002 |
| 8023 | 10/05/00 | 0.000 |
| 8024 | 10/06/00 | 0.002 |
| 8025 | 10/06/00 | 0.003 |
| 8026 | 10/05/00 | 0.000 |
| 8027 | 10/06/00 | 0.003 |
| 8028 | 10/06/00 | 0.000 |
| 8029 | 10/06/00 | 0.000 |
| 8030 | 10/05/00 | 0.000 |
| 8031 | 10/06/00 | 0.017 |
| 8032 | 10/05/00 | 0.002 |
| 8033 | 10/05/00 | 0.000 |
| 8034 | 10/05/00 | 0.000 |
| 8035 | 10/05/00 | 0.000 |
| 8036 | 10/05/00 | 0.002 |
| 8037 | 10/05/00 | 0.000 |
| 8038 | 10/05/00 | 0.000 |
| 8039 | 10/05/00 | 0.000 |
| 8040 | 10/05/00 | 0.002 |
| 8041 | 10/05/00 | 0.000 |
| 8042 | 10/05/00 | 0.000 |
| 8043 | 10/05/00 | 0.000 |
| | **Area D** | |
| 9001 | 10/11/00 | 0.004 |
| 9002 | 10/11/00 | 0.007 |
| 9003 | 10/10/00 | 0.000 |
| 9004 | 10/10/00 | 0.001 |
| 9005 | 10/11/00 | 0.004 |
| 9006 | 10/11/00 | 0.010 |
| 9007 | 10/10/00 | 0.005 |
| 9008 | 10/10/00 | 0.000 |
| 9009 | 10/11/00 | 0.000 |
| 9010 | 10/11/00 | 0.004 |

**Privileged and Confidential**
**Draft for Discussion Purposes Only**

Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

| Sample ID | Date Sampled | $H_2S$ Concentration ppm |
|---|---|---|
| 9011 | 10/10/00 | 0.003 |
| 9012 | 10/10/00 | 0.002 |
| 9013 | 10/11/00 | 0.005 |
| 9014 | 10/11/00 | 0.023 |
| 9015 | 10/10/00 | 0.000 |
| 9016 | 10/10/00 | 0.003 |
| 9017 | 10/11/00 | 0.004 |
| 9018 | 10/11/00 | 0.002 |
| 9019 | 10/10/00 | 0.002 |
| 9020 | 10/10/00 | 0.000 |
| 9021 | 10/11/00 | 0.003 |
| 9022 | 10/11/00 | 0.009 |
| 9023 | 10/10/00 | 0.001 |
| 9024 | 10/10/00 | 0.008 |
| 9025 | 10/11/00 | 0.003 |
| 9026 | 10/11/00 | 0.000 |
| 9027 | 10/10/00 | 0.001 |
| 9028 | 10/11/00 | 0.004 |
| 9029 | 10/11/00 | 0.003 |
| 9030 | 10/11/00 | 0.006 |
| 9031 | 10/10/00 | 0.000 |
| 9032 | 10/11/00 | 0.000 |
| 9033 | 10/11/00 | 0.000 |
| 9034 | 10/11/00 | 0.000 |
| 9035 | 10/11/00 | 0.006 |
| 9036 | 10/12/00 | 0.002 |
| 9037 | 10/11/00 | 0.008 |
| 9038 | 10/12/00 | 0.004 |
| 9039 | 10/11/00 | 0.000 |
| 9040 | 10/12/00 | 0.021 |
| 9041 | 10/11/00 | 0.004 |
| 9042 | 10/12/00 | 0.000 |
| 9043 | 10/11/00 | 0.002 |
| 9044 | 10/12/00 | 0.000 |
| 9045 | 10/11/00 | 0.000 |
| 9046 | 10/11/00 | 0.007 |
| 9047 | 10/11/00 | 0.000 |
| 9048 | 10/12/00 | 0.000 |
| 9049 | 10/12/00 | 0.002 |
| 9050 | 10/12/00 | 0.000 |
| 9051 | 10/12/00 | 0.001 |

**Privileged and Confidential**
**Draft for Discussion Purposes Only**

Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

| Sample ID | Date Sampled | $H_2S$ Concentration ppm |
|---|---|---|
| 9052 | 10/12/00 | 0.000 |
| 9053 | 10/12/00 | 0.000 |
| 9054 | 10/12/00 | 0.000 |
| 9055 | 10/12/00 | 0.012 |

Notes:
PPMV - parts per million per volume
Results less than 0.003 ppm are below the range of the instrument and should be considered estimates
"No sample - water" - as gas sample was collected at water table from these samples. Sufficient gas could be collected for methane and BTEX analysis but not for hydrogen sulfide.

# Attachment A
# Soil Gas Sampling Methodology



PRIVILEGED AND CONFIDENTIAL
DRAFT FOR DISCUSSION PURPOSES ONLY

# FIELD AND LABORATORY PROCEDURES

# FOR

# SOIL VAPOR SAMPLING

Playa Vista
Los Angeles, California

Prepared by:
Exploration Technologies, Inc.
3698 Westchase Drive
Houston, Texas

January 5, 2000

## TABLE OF CONTENTS

1.0 INTRODUCTION

2.0 FIELD PROCEDURES

2.1 Preparation of Soil Vapor Sampling Bottles
2.2 Collection of Soil Vapor Samples
2.3 Quality Control Samples
2.4 Field Recording of Samples
2.5 Field Labeling/Recording of Samples
2.6 Shipment of Samples
2.7 Chain of Custody Procedures/Documentation
2.8 Water Source
2.9 Disposition of Soil Vapor Collection Holes

3.0 CHAIN OF CUSTODY AND DOCUMENTATION

3.1 Field Logbook
3.2 Sample Documentation
3.2.1 Sample Labels and/or Tags
3.2.2 Chain of Custody Records
3.3 Corrections to Documentation
3.4 Investigation Derived Waters

4.0 LABORATORY PROCEDURES FOR ANALYSIS OF SOIL VAPOR SAMPLES

4.1 Summary of Methodology
4.2 Suite of Analysis and Reporting/Detection Limits
4.3 Interferences
4.4 Data Collection and Archival
4.5 Calibration and Results
4.6 Quality Control
4.7 Sample Analysis and Holding Times

## 1.0 INTRODUCTION

The field procedures and protocols implemented for the Exploration Technologies, Inc. (ETI) proposed soil vapor sampling methodology is described in this plan. This Field Sampling Plan (FSP) describes the methodologies to be used during collection and analysis of soil vapor samples and the requirements for documentation and reporting.

In preparing this soil gas work plan, the following documents were consulted and implemented in developing the proposed field and analytical procedures:

- ASTM D5314-92 *Standard for Soil Gas Monitoring in the Vadose Zone*
- Los Angeles RWQCB *Interim Guidance for Active Soil Gas Investigation*

## 2.0 FIELD PROCEDURES

The field procedures to be used during collection of soil vapor samples are as follows:

### 2.1 Preparation of Soil Vapor Sampling Bottles

All soil vapor samples are collected in 22, 50 or 125-cubic centimeter (cc) glass serum bottles, depending upon available soil gas volumes. All bottles are pre-washed and soaked by filling with a detergent solution for 24 hours. These sample bottles are rinsed by filling with water and soaking for an additional 24 hours. After rinsing, the bottles are heated to 150° C for 24 hours, purged with pre-purified nitrogen (defined as 99.998% pure nitrogen with maximum levels of oxygen, total hydrocarbons and water not to exceed 5 parts per million volume (ppmv), 1 ppmv and 3 ppmv, respectively), capped and sealed with a butyl rubber septum and a crimped aluminum cap with a removable center protector.

### 2.2 Collection of Soil Vapor Samples

Soil vapor samples are collected in accordance with the following procedures and methodology:

1) Before initiating field activities, a utility locator will survey and clear each proposed boring or sampling location for any subsurface utilities or interferences. If an underground utility is identified within the proposed sampling location, the boring will be repositioned or relocated nearby and resurveyed for underground utilities.

2) After each sampling location is cleared of utilities, the sample hole is made with a manually operated ½ - inch outside diameter steel plunger bar to the specified sampling depth of 4, 7 or 12 feet below ground surface. This is generally located within the vadose zone above the capillary fringe, although water samples can also be collected through ETI's soil gas probe.

3) For each sampling location, two of the pre-prepared septum top glass 125-cc sample bottles are evacuated onsite with a hand pump to a vacuum of approximately 20 inches of mercury for use in collecting soil vapor and ambient air samples.

4) After each boring has been punched to the specified sampling depth, the ½-inch outside diameter plunger bar is removed from the hole.

5) Before inserting the stainless-steel sampling probe into the pre-drilled borehole, one of the evacuated sample bottles is attached to a three-way stop cock valve mounted on the top of the probe with a new 20-gauge needle attached to a 60 cc hypodermic syringe. The three-way valve is opened to allow a sample of ambient air to fill the evacuated bottle through the sampling probe and to collect a background air sample for quality control between sampling locations. An additional 60 cc of ambient air is injected into the blank sample bottle using the new syringe, after which the sample bottle is removed from the valve and the puncture hole is sealed with a silicone rubber adhesive sealant.

6) After the blank sample is collected, the sampling probe is inserted into the sample hole and purged by withdrawing at least 15 cc of ambient air using the syringe mounted on the three-way valve attached to the top of the probe. The stainless steel sampling probe has an outside diameter of ½-inch and an inside diameter of 1/8 inch and a perforated tip for collecting the soil vapor sample at the bottom of the pre-drilled hole. This volume of purge is adequate to remove ambient air from the probe, while providing minimal disturbance to the soil gas near the probe tip. A 4-foot-long sampling probe with a 1/8-inch inside diameter has an internal volume of 9.65 cc.

7) Following this purging process, the second evacuated bottle is placed on the probe needle and the valve is opened to allow soil vapor to enter the evacuated bottle. The same 60-cc syringe used to collect the ambient air sample is then used to extract an additional 60 cc of soil vapor through the probe. The additional soil vapor is injected through the three-way valve into the bottle to overpressure the sampling bottle. The sample bottle is then removed and sealed with a silicone rubber adhesive cement (similar to the above procedure for collecting blank samples). The syringe is discarded following collection of each sample. The positive pressure on the bottle will prevent the influx of ambient air into the bottle and diluting the sample vapors during transportation from the field to the laboratory.

8) All sampling equipment is decontaminated between sample collection. The ½-inch-diameter sampling probe is washed both outside and inside by injecting a detergent solution through the probe, followed by a distilled water rinse before for collecting a soil vapor sample from each location. After rinsing, the inside of the probe is flushed with compressed air at approximately 25 pounds per square inch (psi) pressure using bottled breathing air.

The ETI sampling protocol is designed to collect only a small volume of equilibrium soil vapor sample from the subsurface sediments at the selected sampling depth under various conditions. If impermeable and/or water saturated soils are encountered at the selected

sampling depth, the field personnel will observe a significant vacuum in the syringe mounted on the three-way valve such that the syringe plunger cannot be withdrawn. It will be necessary to relieve the high vacuum before a soil gas sample can be collected. In cases where high vacuum is encountered, one of the following options can be implemented depending on actual conditions in the field:

1. The probe can be pulled up a few inches to clear the free water and/or wet clays that are sealing the bottom of the probe tip.

2. A new hole can be redrilled one to two feet from the initial sampling location. In most cases, this impermeable subsurface condition is not uniformly present across the site.

Under extreme impermeable conditions, the volume of the sample to be collected can be reduced from 125 cc to 50 cc or even 22 cc.

All sampling equipment is decontaminated between sampling locations. The manually operated sampling probes and any other field equipment is decontaminated between sampling locations using a high-pressure steam cleaner. Waste or rinse water generated during steam cleaning and decontamination is contained for proper disposal offsite. The soil vapor probe is also steam-cleaned, washed with soap, rinsed and blown dry with compressed air, using bottled breathing air as described above.

### 2.3 Quality Control Samples

Quality control samples will include ambient air samples collected through the probe at each location and one trip blank for each day of field activity. All trip blanks and 20 percent of ambient air samples collected will be analyzed using the same analytical procedures for the suite of analytes proposed for the soil vapor samples.

### 2.4 Field Recording of Samples

All soil vapor collection bottles will be labeled at each sample site with an appropriate map or grid reference number. A base map will be posted daily with all completed sites, and a list of samples collected will be retained by the sampler as part of the field notes. A copy of the field form to be used during soil vapor sampling is attached.

### 2.5 Field Labeling/Recording of Samples

A bound record book will be used by field personnel to document and record field observations and data collected during soil vapor sample collection. The record will include the times, locations, and the person collecting the samples. Each soil vapor sample container will be labeled in the field with the following information: site number, sample collection depth, date and time of sample collection, person collecting the sample. Records of field observations/ measurements will be maintained for record keeping.

### 2.6 Shipment of Samples

Samples will be shipped/delivered to ETI's, or to any other designated analytical laboratory for analyses of constituents of concern following the recommended procedures of the U.S. Environmental Protection Agency (EPA) and American Society for Testing and Materials (ASTM). Samples are shipped/delivered to the designated analytical laboratory within 24 hours of collection and within the specified holding times for each analysis following appropriate chain of custody procedures as described below.

### 2.7 Chain of Custody Procedures/Documentation

A chain of custody form will accompany all samples collected and submitted to ETI's, or to any other designated laboratory for analysis, and are maintained as part of record keeping and documentation of the soil vapor sampling activities. All samples are maintained under chain of custody control during transportation and until transfer and receipt by the laboratory. Immediately upon receipt by the laboratory, the samples are logged in with the appropriate sample designation, matrix, time and date of sampling, analyses required, client, and the sample designation. A copy of the chain of custody form is attached.

### 2.8 Water Source

An onsite potable water source will be identified by site personnel for use during field activities. Deionized water used for decontamination is normally purchased from a retail store.

### 2.9 Disposition of Soil Vapor Collection Holes

After the soil vapor samples are collected, each soil gas sample hole is backfilled with bentonite and/or neat cement as required by the local culture and finished to grade to match existing surface materials. All wastes generated during equipment cleaning are managed in accordance with the appropriate environmental procedures.

## 3.0 CHAIN OF CUSTODY AND DOCUMENTATION

The following section describes the project documentation requirements and procedures to be followed during field activities and sampling.

### 3.1 Field Logbook

A bound logbook dedicated to the project that has consecutively numbered pages is maintained. All fieldwork performed is recorded in this logbook. At a minimum, the following information is included in the logbook:

- Date and time of arrival and departure
- Weather conditions
- Personnel on site
- Level of personal protection
- Deviations from work plan standards

- Purpose of site visit
- Timed entries of the site activities performed
- All sample identification numbers and description of sample (including related QC samples)
- Field instruments used and calibration information
- Description of the number of shipping coolers and shipping method
- Name of receiving laboratory or laboratories
- Signature of the person maintaining the logbook

In cases where separate field sheets or forms are used to record data, the specific sheets are referenced by title in the logbook. All entries in the logbook will be made with waterproof markers. The logbook is maintained for record keeping for the duration of the project.

Other information, which is recorded, includes:

- Field screening instrument readings, if any
- Brand name and amount of each material used
- Any problems encountered and their resolutions
- Date and time of start and completion of soil gas samples, and notation as to depths
- Boundaries between individual lithologies

## 3.2 Sample Documentation

The following sections describe the sample documentation procedures that will be used during soil vapor sampling. Complete sample documentation is required from the time of sample collection to the preparation of analytical reports to ensure the integrity of sample data generated.

### 3.2.1 Sample Labels and/or Tags

Each sample collected will have a label affixed immediately following sample collection. If more than one container is collected for each location, then each container from that sample location will have identical information on the sample labels plus information regarding the time that each sample is collected. Each sample label will contain the following information:

- Project code, site name, or project number
- Sample identification number
- Sampler's name
- Preservative information
- Requested analysis
- Date and time of collection
- Type of sample, either soil gas or water

### 3.2.2 Chain of Custody Records

Chain of custody (COC) documents is used to maintain a record of sample collection, transfer of samples between personnel, sample shipping, and receipt by the laboratory. Sample information is entered on the COC documents at the time of sample collection. If there is any transfer of samples prior to shipment, the COC will reflect the change of possession. Samples are considered to be under custody if one or more of the following criteria are met:

- The sample is in the sampler's possession
- The sample is in the sampler's view after being in possession
- The sample was in the sampler's possession and was then locked up to prevent tampering
- The sample is in a designated secure area

All samples, including quality assurance/quality control samples, will be entered on a COC form. The COC form will include name, address, phone number, and project contact; project code, site name, and project number; full sample identification numbers; sampler's name; sample matrix; sample type; number of sample containers for each identification number; requested analyses; and any other pertinent information required by the laboratory. The COC form will be signed, dated, and timed by the relinquishing and receiving party each time sample possession is transferred. Transfer of sample custody will be kept to a minimum to simplify the COC record.

### 3.3 Corrections to Documentation

Any corrections made to field documentation, either in the field or during review, will be made by a single strike-through, the correct information will be recorded adjacent to the corrected information, and the person making the correction will initial and date next to the correction. The person who made the initial entry will make the corrections.

### 3.4 Management of Investigation-Derived Wastes

Waste soil and water generated during field activities and soil vapor sampling will be stored on site. These investigation-derived wastes (IDW) will be stored in proper containers pending characterization and proper disposal to a permitted facility.

## 4.0 LABORATORY PROCEDURES FOR ANALYSIS OF SOIL VAPOR SAMPLES

### 4.1 Summary of Methodology

Analysis of the permanent gases and light hydrocarbons in a gaseous sample is accomplished using gas chromatographs following a modified procedure outlined in EPA Method 8000 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846 (Third Edition). If a sample loop is used to introduce the sample onto the columns, it is attached to a multi-port valve and is flushed with the carrier gas following rotation of

the valve. Direct injection by gas tight syringe is acceptable. The permanent gases are analyzed using a thermal conductivity detector (TCD). The light hydrocarbons are analyzed using a flame ionization detector (FID). C5+ compounds are analyzed using a flame ionization detector (FID). The data is transferred to a computer where it is converted to digital format, stored, and processed using a chromatography data system.

***This method is recommended for use by (or under the supervision of) analysts experienced in sample preparation, the operation of gas chromatographs and in the interpretation of chromatograms.***

## 4.2 Suite of Analysis and Reporting/Detection Limits

Concentrations of analytes in the gas sample will be reported in percent by volume (for permanent gases) and parts per million by volume (PPMV) in accordance with the following detection limits:

| Light Hydrocarbons | Reporting limits, FID | Reporting limits, TCD |
|---|---|---|
| Methane * | 0.04 PPMV | 0.10% * |
| Ethane | 0.01 | PPMV |
| Ethene | 0.01 | PPMV |
| Propane | 0.01 | PPMV |
| Propene | 0.01 | PPMV |
| I-Butane | 0.01 | PPMV |
| N-Butane | 0.01 | PPMV |

| Permanent Gas | Reporting limits, TCD |
|---|---|
| Hydrogen | 0.5 PPMV |
| Carbon dioxide | 0.03% |
| Oxygen | 1% |
| Nitrogen | 5% |

* ***NOTE:*** *Samples and standards that contain high levels of methane must be reported using both TCD and FID methods. The results must agree to within 15% RPD.*

~~**C5 Plus Analyses**~~

~~The C5 plus analysis will be grouped and reported according to the relative boiling points of the following compounds:~~

NA

~~C5-Benzene~~

~~The sum of all hydrocarbons with a boiling point greater than pentane and less than benzene are reported as ppmv benzene equivalents.~~

Benzene-Toluene

The sum of all hydrocarbons with a boiling point equal to or greater than benzene and less than toluene are reported as benzene equivalents.

Toluene-Xylene

NA

The sum of all hydrocarbons with a boiling point equal to or greater than toluene and less than xylene are reported as benzene equivalents.

Xylene Plus

The sum of all hydrocarbons with a boiling point greater than p-xylene are reported as benzene equivalents.

The reporting limit of each group of components in the C5+ analysis is 1.0 PPMV.

## 4.3 Interferences

The most likely source of "interference" is ambient air. Due to the relatively high concentrations of oxygen and nitrogen in air, a very small amount of air as a contaminant will seriously skew the results. The analyst must take care to ensure that air is flushed from the gas tight syringe before sample preparation and that no air has entered the syringe or needle prior to injection of the sample into the gas chromatograph.

Contamination by carryover can occur whenever high-level and low-level samples are sequentially analyzed. An unrestricted flow of pure carrier gas from a 10 psig source should be allowed to flow through each sample loop for 30 seconds prior to each analyses.

Syringes should be cleaned with laboratory soap and water (Alconox or equivalent) between sample extraction and analysis to insure absence of carryover from previous samples.

***As required, the analyst should demonstrate the absence of carryover contamination by analysis of the contents of the sample loop when purged with carrier gas. This demonstration should be performed when carryover contamination is suspected (after high samples). In the event that 'ghost peaks' (peaks similar to previous sample) appear when a pure carrier gas sample is analyzed, measures should be taken to eliminate the carryover contamination.***

## 4.4 Data Collection and Archival

***The output of the chromatograph is directed to a computer where the signal is converted to digital format, stored, and processed using a chromatography data system.***

Tabulated data is to be made available in electronic format as specified by the client. Data will be preserved and archived for a period of time as specified by the client.

## 4.5 Calibration and Results

***The standard calibration gas should be introduced in the same manner, as is the sample (sample loop or direct injection). Measured peak areas are converted to concentrations using certified commercial gas standards traceable to NIST standards (Matheson Gas Products and Scott Specialty Gases). Dilutes may be made to achieve multi point calibration curves.***

Initial calibration is accomplished by analyzing multiple standards of appropriate calibration ranges. The results should agree to within 10% RPD. These results will be used to establish a multi-point calibration curve.

A Continuing Calibration Verification (CCV) standard will be run for every 20 samples (or more frequently if contractually required). If the instrument response for any CCV standard varies by more than 20%, the analyst will not analyze samples until the reason is determined and the problem is corrected.

## 4.6 Quality Control

The quality control procedures to be implemented for analysis of soil gas samples for the analytes listed in Section 2.0 shall be as follows:

1. If the requirements set forth above are not met, the analytical program will be terminated until the cause is determined and a solution is effected.

2. The analyst should demonstrate the absence of ambient air in the sample preparation system by filling a sample syringe with inert gas and injecting the inert gas onto the columns in the same manner as a sample. The results of this 'syringe blank' should show all analyte levels below the minimum detection limits.

3. Before and during sample analysis, instrument blanks (sample loop filled with flush inert gas) should be analyzed to assure the absence of interference as described in Section 3.0 above.

4. An experienced analyst should examine all chromatograms.

5. Calibration records are generated in electronic and hard copy formats and stored. All such records will be maintained in the laboratory during the course of the project and thereafter as determined by the client.

## 4.7 Sample Analysis and Holding Times

Each soil gas sample will be analyzed for C1-C4 and C5 plus compounds within ten working days of collection. Unless otherwise specified, all samples will be held for 30 days after the report has been submitted. Samples are then segregated, when appropriate, by type and disposed of in the proper manner. If the laboratory cannot dispose of sample remnants in an environmentally safe manner, they may be returned to the client for disposal.

Turnaround times are dependent on the tests that are required and the holding times for the various tests. In the case of holding times, they will always dictate the turnaround time of the sample. When rapid turnaround is required, it should be specified by the client and arranged in advance.

# Attachment B
# Laboratory Reports and Chain-of-Custody Forms



PRIVILEGED AND CONFIDENTIAL
DRAFT FOR DISCUSSION PURPOSES ONLY

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245 ph (412) 826-3433 fax
http://www.microseeps.com

October 19, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 4, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

Rebecca J. Hans

RJH/lsp

Attachment: CDM95-203748

Microseeps

CDM95-203748

---- CAMP DRESSER & MCKEE ----
---- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA ----

| Sample Names | Methane (%V) | Methane (PPMV) | Ethane (PPMV) | Ethylene (PPMV) | Propane (PPMV) | Propylene (PPMV) | Iso-Butane (PPMV) | N-Butane (PPMV) | Lab ID | Date Sampled | Date Received | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6004 | * | 2.11 | 0.08 | 0.08 | 0.06 | 0.05 | <0.03 | <0.03 | T38 315 | 10/03/00 | 10/04/00 | 10/11/00 | BC |
| 6005 | * | 1.69 | 0.04 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 | T38 316 | 10/03/00 | 10/04/00 | 10/11/00 | BC |
| 6006 | * | 1.56 | 0.05 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 317 | 10/03/00 | 10/04/00 | 10/11/00 | BC |
| 6011 | * | 1.09 | 0.05 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 318 | 10/03/00 | 10/04/00 | 10/11/00 | BC |
| 6012 | * | 1.27 | 0.10 | 0.08 | 0.04 | 0.06 | <0.03 | <0.03 | T38 319 | 10/03/00 | 10/04/00 | 10/11/00 | BC |
| 6013 | * | 1.38 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 320 | 10/03/00 | 10/04/00 | 10/11/00 | BC |
| 6018 | * | 1.21 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 321 | 10/03/00 | 10/04/00 | 10/11/00 | BC |
| 6019 | * | 1.46 | 0.06 | 0.04 | 0.03 | <0.03 | <0.03 | <0.03 | T38 322 | 10/03/00 | 10/04/00 | 10/11/00 | BC |
| 6020 | * | 1.59 | 0.05 | 0.05 | 0.03 | <0.03 | <0.03 | <0.03 | T38 323 | 10/03/00 | 10/04/00 | 10/11/00 | BC |
| 6023 | * | 1.50 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 324 | 10/03/00 | 10/04/00 | 10/11/00 | BC |
| 6024 | * | 0.54 | 0.01 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 349 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6025 | * | 1.30 | 0.09 | 0.09 | 0.03 | 0.08 | <0.03 | <0.03 | T38 350 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6026 | * | 1.36 | 0.06 | 0.04 | 0.03 | <0.03 | <0.03 | <0.03 | T38 351 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6029 | * | 2.85 | 0.06 | 0.08 | 0.04 | 0.06 | <0.03 | <0.03 | T38 352 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6030 | * | 1.27 | 0.09 | 0.09 | 0.03 | 0.06 | <0.03 | <0.03 | T38 353 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6031 | * | 1.62 | 0.04 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 354 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6032 | * | 1.23 | 0.04 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 355 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6033 | * | 1.48 | 0.08 | 0.06 | 0.03 | 0.05 | <0.03 | <0.03 | T38 356 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6034 | * | 2.00 | 0.08 | 0.08 | 0.04 | <0.03 | <0.03 | <0.03 | T38 357 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6035 | * | 1.56 | 0.09 | 0.09 | 0.04 | 0.06 | <0.03 | <0.03 | T38 358 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6036 | * | 1.44 | 0.07 | 0.07 | 0.03 | <0.03 | <0.03 | <0.03 | T38 359 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6037 | * | 1.48 | 0.09 | 0.08 | 0.04 | 0.07 | <0.03 | <0.03 | T38 360 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6038 | * | 1.38 | 0.02 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 361 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6039 | * | 1.88 | 0.06 | 0.06 | 0.03 | 0.06 | <0.03 | <0.03 | T38 362 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6040 | * | 1.59 | 0.08 | 0.08 | 0.04 | 0.05 | <0.03 | <0.03 | T38 363 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6041 | * | 4.10 | 0.52 | 0.32 | 0.23 | 0.23 | 0.03 | 0.08 | T38 364 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| 6042 | * | 3.94 | 0.37 | 0.25 | 0.14 | 0.17 | 0.03 | 0.07 | T38 365 | 10/03/00 | 10/04/00 | 10/12/00 | BC |
| DETECTION LIMITS | 0.02 | 0.04 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | | | | | |

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST BC

REVIEW

Microseeps

CDM95-203748

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/11/00

| COMPOUND | FILE ID | TRUE CONC. | MEASURED | % DIFF. |
|---|---|---|---|---|
| METHANE (FID) | T38 270 | 30.00 | 32.19 | 7.30 |
| ETHANE | T38 270 | 10.00 | 10.02 | 0.20 |
| ETHYLENE | T38 270 | 10.00 | 10.03 | 0.30 |
| PROPANE | T38 270 | 10.00 | 10.05 | 0.50 |
| PROPYLENE | T38 270 | 10.00 | 10.07 | 0.70 |
| ISO-BUTANE | T38 270 | 10.00 | 10.35 | 3.50 |
| N-BUTANE | T38 270 | 10.00 | 10.49 | 4.90 |

HE IN LOOP 10/11/00

| COMPOUND | FILE ID | DET. LIMIT | MEASURED |
|---|---|---|---|
| METHANE (FID) | T38 272 | 0.04 PPMV | ND |
| ETHANE | T38 272 | 0.01 PPMV | ND |
| ETHYLENE | T38 272 | 0.01 PPMV | ND |
| PROPANE | T38 272 | 0.03 PPMV | ND |
| PROPYLENE | T38 272 | 0.03 PPMV | ND |
| ISO-BUTANE | T38 272 | 0.03 PPMV | ND |
| N-BUTANE | T38 272 | 0.03 PPMV | ND |

ANALYST INITIALS BC

REVIEW

Microseeps

CDM95-203748

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/12/00

| COMPOUND | FILE ID | TRUE CONC. | MEASURED | % DIFF. |
|---|---|---|---|---|
| METHANE (FID) | T38 327 | 30.00 | 32.14 | 7.13 |
| ETHANE | T38 327 | 10.00 | 10.10 | 1.00 |
| ETHYLENE | T38 327 | 10.00 | 10.08 | 0.80 |
| PROPANE | T38 327 | 10.00 | 10.10 | 1.00 |
| PROPYLENE | T38 327 | 10.00 | 10.03 | 0.30 |
| ISO-BUTANE | T38 327 | 10.00 | 10.07 | 0.70 |
| N-BUTANE | T38 327 | 10.00 | 9.81 | 1.90 |

HE IN LOOP 10/12/00

| COMPOUND | FILE ID | DET. LIMIT | MEASURED |
|---|---|---|---|
| METHANE (FID) | T38 329 | 0.04 PPMV | ND |
| ETHANE | T38 329 | 0.01 PPMV | ND |
| ETHYLENE | T38 329 | 0.01 PPMV | ND |
| PROPANE | T38 329 | 0.03 PPMV | ND |
| PROPYLENE | T38 329 | 0.03 PPMV | ND |
| ISO-BUTANE | T38 329 | 0.03 PPMV | ND |
| N-BUTANE | T38 329 | 0.03 PPMV | ND |

ANALYST INITIALS BL

REVIEW MK

Microseeps

CDM95 -203748

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

| Sample ID | Benzene | Toluene | Ethyl Benzene | M/P Xylene | Ortho Xylene | Lab ID | Date Sampled | Date Received | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| 6004 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A481 | 10/03/00 | 10/04/00 | 10/05/00 | JLL |
| 6005 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A482 | 10/03/00 | 10/04/00 | 10/05/00 | JLL |
| 6006 | 0.12 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A483 | 10/03/00 | 10/04/00 | 10/05/00 | JLL |
| 6011 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A484 | 10/03/00 | 10/04/00 | 10/05/00 | JLL |
| 6012 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A485 | 10/03/00 | 10/04/00 | 10/05/00 | JLL |
| 6013 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A488 | 10/03/00 | 10/04/00 | 10/06/00 | JLL |
| 6018 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A489 | 10/03/00 | 10/04/00 | 10/06/00 | JLL |
| 6019 | < 0.07 | < 0.07 | 1.11 | 0.18 | < 0.07 | W99A490 | 10/03/00 | 10/04/00 | 10/06/00 | JLL |
| 6020 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A491 | 10/03/00 | 10/04/00 | 10/06/00 | JLL |
| 6023 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A492 | 10/03/00 | 10/04/00 | 10/06/00 | JLL |
| 6024 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A493 | 10/03/00 | 10/04/00 | 10/06/00 | JLL |
| 6025 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A494 | 10/03/00 | 10/04/00 | 10/06/00 | JLL |
| 6026 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W99A495 | 10/03/00 | 10/04/00 | 10/06/00 | JLL |
| 6029 | < 0.07 | 0.18 | < 0.07 | < 0.07 | < 0.07 | W99A496 | 10/03/00 | 10/04/00 | 10/06/00 | JLL |
| 6030 | < 0.07 | < 0.07 | 0.07 | < 0.07 | < 0.07 | W99A497 | 10/03/00 | 10/04/00 | 10/06/00 | JLL |
| 6031 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A03 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6032 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | 0.15 | W100A04 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6033 | < 0.07 | < 0.07 | < 0.07 | 0.80 | < 0.07 | W100A05 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6034 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A06 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6035 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A07 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6036 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A08 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6037 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A09 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6038 | < 0.07 | 0.14 | < 0.07 | < 0.07 | < 0.07 | W100A10 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6039 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A11 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6040 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A12 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6041 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A13 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| 6042 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A14 | 10/03/00 | 10/04/00 | 10/09/00 | JLL |
| Detection Limits | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | | | | | |

10/11/00

Analyst JLL

Reviewed

Microseeps

Quality Control

CDM95 -203748

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/05/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W99A464 | 1.25 | 1.24 | 1.12 |
| Toluene | W99A464 | 1.06 | 1.05 | 1.32 |
| Ethyl Benzene | W99A464 | 0.92 | 0.91 | 1.52 |
| M/P Xylene | W99A464 | 1.84 | 1.85 | 0.49 |
| Ortho Xylene | W99A464 | 0.92 | 0.92 | 0.43 |

N2 in vial 10/05/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W99A465 | 0.07 | ND |
| Toluene | W99A465 | 0.07 | ND |
| Ethyl Benzene | W99A465 | 0.07 | ND |
| M/P Xylene | W99A465 | 0.07 | ND |
| Ortho Xylene | W99A465 | 0.07 | ND |

Continuing Calibration Standards 10/06/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W99A486 | 1.25 | 1.30 | 4.00 |
| Toluene | W99A486 | 1.06 | 1.12 | 5.66 |
| Ethyl Benzene | W99A486 | 0.92 | 0.96 | 4.46 |
| M/P Xylene | W99A486 | 1.84 | 1.94 | 5.43 |
| Ortho Xylene | W99A486 | 0.92 | 0.95 | 3.26 |

N2 in vial 10/06/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W99A487 | 0.07 | ND |
| Toluene | W99A487 | 0.07 | ND |
| Ethyl Benzene | W99A487 | 0.07 | ND |
| M/P Xylene | W99A487 | 0.07 | ND |
| Ortho Xylene | W99A487 | 0.07 | ND |

Continuing Calibration Standards 10/09/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W100A01 | 1.25 | 1.24 | 0.80 |
| Toluene | W100A01 | 1.06 | 1.11 | 4.72 |
| Ethyl Benzene | W100A01 | 0.92 | 0.94 | 2.17 |
| M/P Xylene | W100A01 | 1.84 | 1.86 | 1.09 |
| Ortho Xylene | W100A01 | 0.92 | 0.93 | 1.09 |

N2 in vial 10/09/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W100A02 | 0.07 | ND |
| Toluene | W100A02 | 0.07 | ND |
| Ethyl Benzene | W100A02 | 0.07 | ND |
| M/P Xylene | W100A02 | 0.07 | ND |
| Ortho Xylene | W100A02 | 0.07 | ND |

Analyst JLL

Reviewed

205148 CDM 45

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA CO
Address: 12555 W JEFFERSON
Proj. Manager: MERSCHAT
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :
Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| A | C1 -C4 | G | Chlorinated HC |
| *B | Hydrogen & Helium | H | BTEX |
| *C | Permanent Gases (CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury (Soil) or (Air **) | K | TPH (C5 - C10) or (C4 -C12) |
| E | TO-14 by GC/MS (Ambient) or (Source **) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT 3 | 8:55 | 1 | | SOUGAS | 6004 | A | | | | | | |
| | " | 1 | | | 6004 | H | | | | | | |
| | 9:05 | 1 | | | 6005 | A | | | | | | |
| | " | 1 | | | 6005 | H | | | | | | |
| | 9:20 | 1 | | | 6006 | A | | | | | | |
| | " | 1 | | | 6006 | H | | | | | | |
| | 9:30 | 1 | | | 6011 | A | | | | | | |
| | " | 1 | | | 6011 | H | | | | | | |
| | 9:45 | 1 | | | 6012 | A | | | | | | |
| | " | 1 | | | 6012 | H | | | | | | |
| | 10:00 | 1 | | | 6013 | A | | | | | | |
| | " | 1 | | | 6013 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| [signature] | ETI | 10-3-00 | 4:30P | [signature] | CDM | 10/3/00 | 4:35PM |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | [signature] | — | 10-4-00 | 10 30 |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | Fedex | #822029600150 | 10/3/00 | 5:00PM |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MARSCHA
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :
Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases ( CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury ( Soil ) or ( Air ** ) | K | TPH ( C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS ( Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-3 | | 1 | 4 | SOIL GAS | 6019 | A | | | | | | |
| | " | 1 | 4 | | 6019 | H | | | | | | |
| | 10:20 | 1 | 4 | | 6018 | A | | | | | | |
| | " | 1 | 4 | | 6018 | H | | | | | | |
| | 10:48 | 1 | 4 | | 6020 | A | | | | | | |
| | " | 1 | | | 6020 | H | | | | | | |
| | 11:25 | 1 | | | 6023 | A | | | | | | |
| | " | 1 | | | 6023 | H | | | | | | |
| | 11:35 | 1 | | | 6024 | A | | | | | | |
| | " | 1 | | | 6024 | H | | | | | | |
| | 11:45 | 1 | | | 6025 | A | | | | | | |
| | " | 1 | | | 6025 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| [signature] | ETI | 10300 | 4:30P | [signature] | CDM | 10/3/00 | 4:35 PM |
| Relinquished by : | Company : | Date : | Time : | Received by : [signature] | Company : — | Date : 10-4-00 | Time : 1030 |
| Relinquished by : | Company : | Date : | Time : | Received by : Fedex | Company : #822029600150 | Date : 10/3/00 | Time : 5:00 pm |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MARSCHAL
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :
Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases ( CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury ( Soil ) or ( Air ** ) | K | TPH ( C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS ( Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | ( Other ) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-3 | 1:35 | 1 | | SOV GAS | 6026 | A | | | | | | |
| | " | 1 | | | 6026 | H | | | | | | |
| | 1:38 | 1 | | | 6029 | A | | | | | | |
| | " | 1 | | | 6029 | H | | | | | | |
| | 1:45 | 1 | | | 6030 | A | | | | | | |
| | " | 1 | | | 6030 | H | | | | | | |
| | 2:05 | 1 | | | 6031 | A | | | | | | |
| | " | 1 | | | 6031 | H | | | | | | |
| | 2:20 | 1 | | | 6032 | A | | | | | | |
| | " | 1 | | | 6032 | H | | | | | | |
| | 2:25 | 1 | | | 60~~35~~ 34 | A | | | | | | |
| | " | 1 | | | 60~~36~~ 34 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| [illegible] | STI | 10-3-00 | 4:30P | [illegible] | CDM | 10/3/00 | 4:35PM |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | [illegible] | — | 10-4-00 | 10 30 |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | Fedex | #822029600150 | 10/3/00 | 5:00 PM |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MOTSCHAN

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| * A | O1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases ( CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury ( Soil ) or ( Air ** ) | K | TPH ( C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS ( Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-3 | | 1 | 2:35 | SOIL GAS | 6033 | A | | | | | | |
| | | 1 | " | | 6033 | H | | | | | | |
| | | 1 | 2:50 | | 6035 | A | | | | | | |
| | | 1 | " | | 6035 | H | | | | | | |
| | | 1 | 3:05 | | 6036 | A | | | | | | |
| | | 1 | " | | 6036 | H | | | | | | |
| | | 1 | 3:10 | | 6037 | A | | | | | | |
| | | 1 | " | | 6037 | H | | | | | | |
| | | 1 | 3:18 | | 6038 | A | | | | | | |
| | | 1 | " | | 6038 | H | | | | | | |
| | | 1 | 3:25 | | 6040 6040 | A | | | | | | |
| | | 1 | " | | 6040 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | ETI | 10-3-00 | 4:30P | | CDM | 10/3/00 | 4:35pm |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | | — | 10-4-00 | 1030 |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | FEDEX | #822029600150 | 10/3/00 | 5:00PM |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238
Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.
Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MERSCHAT
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :
Sampler's signature :

**Analysis Options**

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases ( CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury ( Soil ) or ( Air ** ) | K | TPH ( C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS ( Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.
** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | ( Other ) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-3 | 3:30 | 1 | 3:30 | SOIL GAS | 6039 | A | | | | | | |
| | " | 1 | " | | 6039 | H | | | | | | |
| | 3:21 | 1 | 3:21 | | 6041 | A | | | | | | |
| | " | 1 | " | | 6041 | H | | | | | | |
| | 3:55 | 1 | 3:55 | | 6042 | A | | | | | | CM |
| | " | 1 | " | | 6042 | H | | | | | | |
| | | 1 | | | | A | | | | | | |
| | | 1 | | | | H | | | | | | |
| | | 1 | | | | A | | | | | | |
| | | 1 | | | | H | | | | | | |
| | | 1 | | | | A | | | | | | |
| | | 1 | | | | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| [signature] | ETJ | 10-3-00 | 4:30P | [signature] | CDM | 10/3/00 | 4:35PM |
| | | | | [signature] | — | 10-4-00 | 10:30 |
| | | | | Fedex | #822029600150 | 10/3/00 | 5:00PM |

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245 ph (412) 826-3433 fax
http://www.microseeps.com

October 19, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 5, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM96-203762

Microseeps

CDM96-203762

— CAMP DRESSER & MCKEE —
— LOCATION: (PLAYA VISTA) - LOS ANGELES, CA —

| Sample Names | Methane (%V) | Methane (PPMV) | Ethane (PPMV) | Ethylene (PPMV) | Propane (PPMV) | Propylene (PPMV) | Iso-Butane (PPMV) | N-Butane (PPMV) | Lab ID | Date Sampled | Date Received | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6065 | * | 0.97 | 0.01 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 366 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6049 | * | 1.34 | 0.04 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | T38 367 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6051 | * | 1.46 | 0.08 | 0.08 | 0.04 | 0.06 | <0.03 | <0.03 | T38 368 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6054 | * | 1.28 | 0.02 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | T38 369 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6066 | * | 1.24 | 0.06 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 | T38 370 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6043 | * | 0.78 | <0.01 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 371 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6063 | * | 2.38 | 0.13 | 0.19 | 0.06 | 0.18 | <0.03 | <0.03 | T38 372 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6044 | * | 1.75 | 0.06 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 | T38 373 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6047 | * | 1.96 | 0.09 | 0.07 | 0.04 | 0.06 | <0.03 | <0.03 | T38 374 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6057 | * | 1.08 | 0.05 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 | T38 375 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6076 | * | 1.95 | 0.04 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 376 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6062 | * | 0.68 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 377 | 10/04/00 | 10/05/00 | 10/12/00 | BC |
| 6046 | * | 1.56 | 0.06 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 | T38 388 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6050 | * | 1.49 | 0.02 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 389 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6070 | * | 0.91 | 0.04 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 390 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6056 | * | 2.10 | 0.05 | 0.08 | <0.03 | 0.05 | <0.03 | <0.03 | T38 391 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6055 | * | 2.11 | 0.06 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 | T38 392 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6053 | * | 1.71 | 0.06 | 0.06 | 0.03 | 0.03 | <0.03 | <0.03 | T38 393 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6060 | * | 2.07 | 0.05 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 394 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6067 | * | 2.06 | 0.08 | 0.04 | <0.03 | 0.06 | <0.03 | <0.03 | T38 395 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6052 | * | 1.30 | 0.06 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 | T38 396 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6073 | * | 1.71 | 0.07 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 397 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6064 | * | 1.20 | 0.05 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 | T38 398 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6059 | * | 1.42 | 0.09 | 0.07 | <0.03 | 0.06 | <0.03 | <0.03 | T38 399 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6069 | * | 2.51 | 0.27 | 0.27 | 0.10 | 0.19 | <0.03 | <0.03 | T38 400 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6058 | * | 1.07 | 0.05 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 | T38 401 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6045 | * | 1.24 | 0.07 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 | T38 402 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6068 | * | 1.10 | 0.07 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 403 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6072 | * | 1.08 | 0.03 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | T38 404 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6071 | * | 1.22 | 0.06 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | T38 405 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6048 | * | 1.96 | 0.06 | 0.06 | <0.03 | <0.03 | <0.03 | <0.03 | T38 406 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6077 | * | 1.74 | 0.12 | 0.03 | 0.06 | <0.03 | <0.03 | <0.03 | T38 407 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6075 | * | 1.67 | 0.03 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | T38 408 | 10/04/00 | 10/05/00 | 10/13/00 | BC |
| 6074 | * | 1.47 | 0.08 | 0.03 | 0.03 | 0.05 | <0.03 | <0.03 | T38 409 | 10/04/00 | 10/05/00 | 10/13/00 | MM |
| 6061 | * | 1.20 | 0.02 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 410 | 10/04/00 | 10/05/00 | 10/13/00 | MM |
| DETECTION LIMITS | 0.02 | 0.04 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | | | | | |

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST BC/MMM

REVIEW

Microseeps

***** QUALITY CONTROL *****

CDM96-203762

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/12/00

| COMPOUND | FILE ID | TRUE CONC. | MEASURED | % DIFF. |
|---|---|---|---|---|
| METHANE (FID) | T38 327 | 30.00 | 32.14 | 7.13 |
| ETHANE | T38 327 | 10.00 | 10.10 | 1.00 |
| ETHYLENE | T38 327 | 10.00 | 10.08 | 0.80 |
| PROPANE | T38 327 | 10.00 | 10.10 | 1.00 |
| PROPYLENE | T38 327 | 10.00 | 10.03 | 0.30 |
| ISO-BUTANE | T38 327 | 10.00 | 10.07 | 0.70 |
| N-BUTANE | T38 327 | 10.00 | 9.81 | 1.90 |

HE IN LOOP 10/12/00

| COMPOUND | FILE ID | DET. LIMIT | MEASURED |
|---|---|---|---|
| METHANE (FID) | T38 329 | 0.04 PPMV | ND |
| ETHANE | T38 329 | 0.01 PPMV | ND |
| ETHYLENE | T38 329 | 0.01 PPMV | ND |
| PROPANE | T38 329 | 0.03 PPMV | ND |
| PROPYLENE | T38 329 | 0.03 PPMV | ND |
| ISO-BUTANE | T38 329 | 0.03 PPMV | ND |
| N-BUTANE | T38 329 | 0.03 PPMV | ND |

ANALYST INITIALS

REVIEW

Microseeps

CDM96-203762

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/13/00

| COMPOUND | FILE ID | TRUE CONC. | MEASURED | % DIFF. |
|---|---|---|---|---|
| METHANE (FID) | T38 379 | 30.00 | 32.28 | 7.60 |
| ETHANE | T38 379 | 10.00 | 10.08 | 0.80 |
| ETHYLENE | T38 379 | 10.00 | 10.06 | 0.60 |
| PROPANE | T38 379 | 10.00 | 10.10 | 1.00 |
| PROPYLENE | T38 379 | 10.00 | 10.17 | 1.70 |
| ISO-BUTANE | T38 379 | 10.00 | 10.48 | 4.80 |
| N-BUTANE | T38 379 | 10.00 | 10.95 | 9.50 |

HE IN LOOP 10/13/00

| COMPOUND | FILE ID | DET. LIMIT | MEASURED |
|---|---|---|---|
| METHANE (FID) | T38 384 | 0.04 PPMV | ND |
| ETHANE | T38 384 | 0.01 PPMV | ND |
| ETHYLENE | T38 384 | 0.01 PPMV | ND |
| PROPANE | T38 384 | 0.03 PPMV | ND |
| PROPYLENE | T38 384 | 0.03 PPMV | ND |
| ISO-BUTANE | T38 384 | 0.03 PPMV | ND |
| N-BUTANE | T38 384 | 0.03 PPMV | ND |

ANALYST INITIALS BL

REVIEW mb.

Microseeps

CDM96 -203762

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

| Sample ID | Benzene | Toluene | Ethyl Benzene | M/P Xylene | Ortho Xylene | Lab ID | Date Sampled | Date Received | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| 6065 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A15 | 10/04/00 | 10/05/00 | 10/09/00 | JLL |
| 6049 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A16 | 10/04/00 | 10/05/00 | 10/09/00 | JLL |
| 6051 | <0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A17 | 10/04/00 | 10/05/00 | 10/09/00 | JLL |
| 6054 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A18 | 10/04/00 | 10/05/00 | 10/09/00 | JLL |
| 6066 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A19 | 10/04/00 | 10/05/00 | 10/09/00 | JLL |
| 6043 | < 0.07 | 0.09 | < 0.07 | < 0.07 | < 0.07 | W100A20 | 10/04/00 | 10/05/00 | 10/09/00 | JLL |
| 6063 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | 0.44 | W100A21 | 10/04/00 | 10/05/00 | 10/09/00 | JLL |
| 6044 | 1.05 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A22 | 10/04/00 | 10/05/00 | 10/09/00 | JLL |
| 6047 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A25 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6057 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A26 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6076 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A27 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6062 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A28 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6046 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A29 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6050 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A30 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6070 | < 0.07 | < 0.07 | < 0.07 | 0.22 | < 0.07 | W100A31 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6056 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A32 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6055 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A33 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6053 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A34 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6060 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A35 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6067 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A36 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6052 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A37 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6073 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A38 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6064 | < 0.07 | < 0.07 | < 0.07 | 0.92 | < 0.07 | W100A39 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6059 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A40 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6069 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A41 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6058 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A42 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6045 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A43 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6068 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A44 | 10/04/00 | 10/05/00 | 10/10/00 | JLL |
| 6072 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A47 | 10/04/00 | 10/05/00 | 10/11/00 | JLL |
| 6071 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A48 | 10/04/00 | 10/05/00 | 10/11/00 | JLL |
| 6048 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A49 | 10/04/00 | 10/05/00 | 10/11/00 | JLL |
| 6077 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A50 | 10/04/00 | 10/05/00 | 10/11/00 | JLL |
| 6075 | < 0.07 | < 0.07 | < 0.07 | 0.12 | < 0.07 | W100A51 | 10/04/00 | 10/05/00 | 10/11/00 | JLL |
| 6074 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A52 | 10/04/00 | 10/05/00 | 10/11/00 | JLL |
| 6061 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A53 | 10/04/00 | 10/05/00 | 10/11/00 | JLL |
| Detection Limits | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | | | | | |

10/12/00

Analyst JLL/MAM

Reviewed

Microseeps

Quality Control

CDM96 -203762

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/09/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W100A01 | 1.25 | 1.24 | 0.80 |
| Toluene | W100A01 | 1.06 | 1.11 | 4.72 |
| Ethyl Benzene | W100A01 | 0.92 | 0.94 | 2.17 |
| M/P Xylene | W100A01 | 1.84 | 1.86 | 1.09 |
| Ortho Xylene | W100A01 | 0.92 | 0.93 | 1.09 |

N2 in vial 10/09/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W100A02 | 0.07 | ND |
| Toluene | W100A02 | 0.07 | ND |
| Ethyl Benzene | W100A02 | 0.07 | ND |
| M/P Xylene | W100A02 | 0.07 | ND |
| Ortho Xylene | W100A02 | 0.07 | ND |

Continuing Calibration Standards 10/10/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W100A23 | 1.25 | 1.28 | 2.40 |
| Toluene | W100A23 | 1.06 | 1.03 | 2.83 |
| Ethyl Benzene | W100A23 | 0.92 | 0.89 | 3.26 |
| M/P Xylene | W100A23 | 1.84 | 1.81 | 1.63 |
| Ortho Xylene | W100A23 | 0.92 | 0.91 | 1.09 |

N2 in vial 10/10/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W100A24 | 0.07 | ND |
| Toluene | W100A24 | 0.07 | ND |
| Ethyl Benzene | W100A24 | 0.07 | ND |
| M/P Xylene | W100A24 | 0.07 | ND |
| Ortho Xylene | W100A24 | 0.07 | ND |

Continuing Calibration Standards 10/11/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W100A45 | 1.25 | 1.31 | 4.80 |
| Toluene | W100A45 | 1.06 | 1.11 | 4.72 |
| Ethyl Benzene | W100A45 | 0.92 | 0.97 | 5.43 |
| M/P Xylene | W100A45 | 1.84 | 1.94 | 5.43 |
| Ortho Xylene | W100A45 | 0.92 | 0.97 | 5.43 |

N2 in vial 10/11/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W100A46 | 0.07 | ND |
| Toluene | W100A46 | 0.07 | ND |
| Ethyl Benzene | W100A46 | 0.07 | ND |
| M/P Xylene | W100A46 | 0.07 | ND |
| Ortho Xylene | W100A46 | 0.07 | ND |

Analyst [illegible] Reviewed [illegible]

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: NEERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

### Analysis Options

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases (CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury (Soil ) or ( Air ** ) | K | TPH (C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS (Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date (2000) | Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT 4 | 215 | 1 | | SOILGAS | 6070 | A | | | | | | |
| | 220 | 1 | | | 6070 | H | | | | | | |
| | 222 | 1 | | | 6074 | A | | | | | | |
| | 227 | 1 | | | 6074 | H | | | | | | |
| | 225 | 1 | | | 6075 | A | | | | | | |
| | 230 | 1 | | | 6075 | H | | | | | | |
| | 250 | 1 | | | 6077 | A | | | | | | |
| | 255 | 1 | | | 6077 | H | | | | | | |
| | 320 | 1 | | | 6076 | A | | | | | | |
| | 325 | 1 | | | 6076 | H | | | | | | |
| | 330 | 1 | | | 6071 | A | | | | | | |
| | 335 | 1 | | | 6071 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | ETI | 2000 OCT 4 | 5P | | CDM | 10/4/00 | 5:05PM |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | | — | 10-5-00 | 1300 |
| Relinquished by : | Company : | Date : | Time : | Received by : Fedex | Company : 8220 29600160 | Date : 10/4/00 | Time : 5:20pm |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MERSCHAT
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :
Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases (CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury (Soil) or (Air **) | K | TPH (C5 - C10) or (C4 -C12) |
| E | TO-14 by GC/MS (Ambient) or (Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date (2000) | Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-4 | 1151 | 1 | | SOLGAS | 6058 | A | | | | | | |
| | 1153 | 1 | | | 6058 | H | | | | | | |
| | 1157 | 1 | | | 6057 | A | | | | | | |
| | 1200 | 1 | | | 6057 | H | | | | | | |
| | 1205 | 1 | | | * 6063 | A | | | | | | |
| | 1210 | 1 | | | 6063 | H | | | | | | |
| | 1205 | 1 | | | 6064 | A | | | | | | |
| | 1210 | 1 | | | 6064 | H | | | | | | |
| | 1211 | 1 | | | 6065 | A | | | | | | |
| | 1216 | 1 | | | 6065 | H | | | | | | |
| | 700 | 1 | | | 6069 | A | | | | | | |
| | 205 | 1 | | | 6069 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | ETI | 2000 OCT 4 | 5 P | | CDM | 10/4/00 | 5:05pm |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | | — | 10-5-00 | 13 00 |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | Fedex | # 8220 2960 0160 | 10/4/00 | 5:20pm |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases (CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury (Soil ) or ( Air ** ) | K | TPH (C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS (Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-4 | 1105 | 1 | | SOIL GAS | 6055 | A | | | | | | |
| | 1110 | 1 | | | 6055 | H | | | | | | |
| | 1111 | 1 | | | 6056 | A | | | | | | |
| | 1116 | 1 | | | 6056 | H | | | | | | |
| | 1115 | 1 | | | 6062 | A | | | | | | |
| | 1120 | 1 | | | 6062 | H | | | | | | |
| | 1135 | 1 | | | 6061 | A | | | | | | |
| | 1140 | 1 | | | 6061 | H | | | | | | |
| | 1141 | 1 | | | 6060 | A | | | | | | |
| | 1146 | 1 | | | 6060 | H | | | | | | |
| | 1150 | 1 | | | 6059 | A | | | | | | |
| | 1155 | 1 | | | 6059 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | CTF | 2000 OCT 4 | 5P | | CDM | 10/4/00 | 5:05pm |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | | — | 10-5-00 | 13 00 |
| Relinquished by : | Company : | Date : | Time : | Received by : Fedex | Company : # 422029600160 | Date : 10/4/00 | Time : 5:20pm |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MERSCHAT
Proj. Location: LA CA
Proj. Number:
Phone # : Fax # :
Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.
Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases (CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury (Soil) or (Air **) | K | TPH (C5 - C10) or (C4 -C12) |
| E | TO-14 by GC/MS (Ambient) or (Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-4 | 1000 | 1 | | SOILGAS | 6046 | A | | | | | | |
| | 1005 | 1 | | | 6046 | H | | | | | | |
| | 1007 | 1 | | | 6045 | A | | | | | | |
| | 1012 | 1 | | | 6045 | H | | | | | | |
| | 1010 | 1 | | | 6051 | A | | | | | | |
| | 1015 | 1 | | | 6051 | H | | | | | | |
| | 1018 | 1 | | | 6052 | A | | | | | | |
| | 1023 | 1 | | | 6052 | H | | | | | | |
| | 1025 | 1 | | | 6053 | A | | | | | | |
| | 1030 | 1 | | | 6053 | H | | | | | | |
| | 1030 | 1 | | | 6054 | A | | | | | | |
| | 1035 | 1 | | | 6054 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | EJJ | 2000 OCT 4 | SP | | CDM | 10/4/00 | 5:05PM |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | | | 10-5-00 | 13 00 |
| Relinquished by : | Company : | Date : | Time : | Received by : Fedex | Company : # 8220 2460 0160 | Date : 10/4/00 | Time : 5:20pm |

203762 / CDM 96

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238
Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.
Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MERSCHAT
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :
Sampler's signature :

### Analysis Options

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases (CH4, CO, CO2, N2, O2) | J | BTEX & C5 - C10 |
| D | Mercury (Soil) or (Air **) | K | TPH (C5 - C10) or (C4 -C12) |
| E | TO-14 by GC/MS (Ambient) or (Source **) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.
** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-4 | 910 | 1 | | SOIL GAS | 6043 | A | | | | | | |
| | 915 | 1 | | | 6043 | H | | | | | | |
| | 915 | 1 | | | 6044 | A | | | | | | |
| | 920 | 1 | | | 6044 | H | | | | | | |
| | 917 | 1 | | | 6050 | A | | | | | | |
| | 921 | 1 | | | 6050 | H | | | | | | |
| | 945 | 1 | | | 6047 | A | | | | | | |
| | 950 | 1 | | | 6047 | H | | | | | | |
| | 955 | 1 | | | 6048 | A | | | | | | |
| | 1000 | 1 | | | 6048 | H | | | | | | |
| | 935 | 1 | | | 6049 | A | | | | | | |
| | 940 | 1 | | | 6049 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| [signature] | ETI | 0054 | 5P | [signature] | CDM | 10/4/00 | 5:05pm |
| | | | | [signature] | — | 10-5-00 | 13:00 |
| | | | | Fedex | # 822029600160 | 10/4/00 | 5:20pm |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases (CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury (Soil ) or ( Air ** ) | K | TPH (C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS (Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date (2000) | Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT 4 | 340 | 1 | | SOILGAS | 6066 | A | | | | | | |
| | 345 | 1 | | | 6066 | H | | | | | | |
| | 340 | 1 | | | 6072 | A | | | | | | |
| | 345 | 1 | | | 6072 | H | | | | | | |
| | 400 | 1 | | | 6067 | A | | | | | | |
| | 405 | 1 | | | 6067 | H | | | | | | |
| | 405 | 1 | | | 6068 | A | | | | | | |
| | 410 | 1 | | | 6068 | H | | | | | | |
| | 410 | 1 | | | 6073 | A | | | | | | |
| | 415 | 1 | | | 6073 | H | | | | | | |
| | | | | | | A | | | | | | |
| | | | | | | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| [illegible] | ETJ | 2000 OCT 4 | 5P | [illegible] | CDM | 10/4/00 | 5:05pm |
| Relinquished by : | Company : | Date : | Time : | Received by : [illegible] | Company : — | Date : 10-5-00 | Time : 13 00 |
| Relinquished by : | Company : | Date : | Time : | Received by : Fedex | Company : # 82202960 0160 | Date : 10/4/00 | Time : 5:20PM |

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245 ph (412) 826-3433 fax
http://www.microseeps.com

October 19, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 6, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM97-203770

Microseeps

CDM97-203770

---- CAMP DRESSER & MCKEE ----
---- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA ----

| Sample Names | Methane (%V) | Methane (PPMV) | Ethane (PPMV) | Ethylene (PPMV) | Propane (PPMV) | Propylene (PPMV) | Iso-Butane (PPMV) | N-Butane (PPMV) | Lab ID | Date Sampled | Date Received | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8005 | * | 0.99 | 0.06 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 411 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8006 | * | 1.10 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 412 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8030 | * | 1.38 | 0.05 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 | T38 413 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8032 | * | 2.11 | 0.12 | 0.08 | 0.04 | 0.05 | <0.03 | <0.03 | T38 414 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8040 | * | 1.74 | 0.10 | 0.06 | 0.05 | 0.04 | <0.03 | <0.03 | T38 415 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8041 | * | 1.92 | 0.07 | 0.09 | 0.03 | 0.09 | <0.03 | <0.03 | T38 416 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8001 | * | 0.64 | 0.01 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 417 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8034 | * | 0.89 | 0.05 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | T38 418 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8003 | * | 1.56 | 0.06 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | T38 419 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8015 | * | 1.53 | 0.05 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 420 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8043 | * | 1.30 | 0.05 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 421 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8002 | * | 1.15 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 422 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8036 | * | 3.14 | 0.15 | 0.10 | 0.06 | 0.05 | <0.03 | <0.03 | T38 423 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8037 | * | 2.28 | 0.09 | 0.03 | 0.03 | <0.03 | <0.03 | <0.03 | T38 424 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8023 | * | 0.75 | 0.05 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 425 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8004 | * | 0.48 | <0.01 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 426 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8012 | * | 1.89 | 0.14 | 0.16 | 0.05 | 0.10 | <0.03 | <0.03 | T38 427 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8026 | * | 1.07 | 0.04 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 428 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8010 | * | 0.66 | 0.06 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | T38 429 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8033 | * | 1.58 | 0.10 | 0.05 | 0.03 | <0.03 | <0.03 | <0.03 | T38 430 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8042 | * | 0.71 | 0.03 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 431 | 10/05/00 | 10/06/00 | 10/13/00 | BC |
| 8009 | * | 0.84 | <0.01 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 437 | 10/05/00 | 10/06/00 | 10/16/00 | BC |
| 8016 | * | 0.90 | 0.02 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 438 | 10/05/00 | 10/06/00 | 10/16/00 | BC |
| 8039 | * | 0.65 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T38 439 | 10/05/00 | 10/06/00 | 10/16/00 | BC |
| 8038 | * | 0.92 | 0.02 | <0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 440 | 10/05/00 | 10/06/00 | 10/16/00 | BC |
| 8035 | * | 0.82 | 0.03 | 0.01 | <0.03 | <0.03 | <0.03 | <0.03 | T38 441 | 10/05/00 | 10/06/00 | 10/16/00 | BC |
| DETECTION LIMITS | 0.02 | 0.04 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | | | | | |

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST BC

REVIEW

Microseeps

***** QUALITY CONTROL *****

CDM97-203770

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/13/00

| COMPOUND | FILE ID | TRUE CONC. | MEASURED | % DIFF. |
|---|---|---|---|---|
| METHANE (FID) | T38 379 | 30.00 | 32.28 | 7.60 |
| ETHANE | T38 379 | 10.00 | 10.08 | 0.80 |
| ETHYLENE | T38 379 | 10.00 | 10.06 | 0.60 |
| PROPANE | T38 379 | 10.00 | 10.10 | 1.00 |
| PROPYLENE | T38 379 | 10.00 | 10.17 | 1.70 |
| ISO-BUTANE | T38 379 | 10.00 | 10.48 | 4.80 |
| N-BUTANE | T38 379 | 10.00 | 10.95 | 9.50 |

HE IN LOOP 10/13/00

| COMPOUND | FILE ID | DET. LIMIT | MEASURED |
|---|---|---|---|
| METHANE (FID) | T38 384 | 0.04 PPMV | ND |
| ETHANE | T38 384 | 0.01 PPMV | ND |
| ETHYLENE | T38 384 | 0.01 PPMV | ND |
| PROPANE | T38 384 | 0.03 PPMV | ND |
| PROPYLENE | T38 384 | 0.03 PPMV | ND |
| ISO-BUTANE | T38 384 | 0.03 PPMV | ND |
| N-BUTANE | T38 384 | 0.03 PPMV | ND |

ANALYST INITIALS

REVIEW

Microseeps

CDM97-203770

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/16/00

| COMPOUND | FILE ID | TRUE CONC. | MEASURED | % DIFF. |
|---|---|---|---|---|
| METHANE (FID) | T38 434 | 30.00 | 32.40 | 8.00 |
| ETHANE | T38 434 | 10.00 | 10.13 | 1.30 |
| ETHYLENE | T38 434 | 10.00 | 10.14 | 1.40 |
| PROPANE | T38 434 | 10.00 | 10.16 | 1.60 |
| PROPYLENE | T38 434 | 10.00 | 10.15 | 1.50 |
| ISO-BUTANE | T38 434 | 10.00 | 10.32 | 3.20 |
| N-BUTANE | T38 434 | 10.00 | 10.17 | 1.70 |

HE IN LOOP 10/16/00

| COMPOUND | FILE ID | DET. LIMIT | MEASURED |
|---|---|---|---|
| METHANE (FID) | T38 436 | 0.04 PPMV | ND |
| ETHANE | T38 436 | 0.01 PPMV | ND |
| ETHYLENE | T38 436 | 0.01 PPMV | ND |
| PROPANE | T38 436 | 0.03 PPMV | ND |
| PROPYLENE | T38 436 | 0.03 PPMV | ND |
| ISO-BUTANE | T38 436 | 0.03 PPMV | ND |
| N-BUTANE | T38 436 | 0.03 PPMV | ND |

ANALYST INITIALS BL

REVIEW

Microseeps

CDM97 -203770

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

| Sample ID | Benzene | Toluene | Ethyl Benzene | M/P Xylene | Ortho Xylene | Lab ID | Date Sampled | Date Received | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| 8005 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A54 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8006 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A55 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8030 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A56 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8032 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A57 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8040 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A58 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8041 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A59 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8001 | < 0.07 | 0.11 | < 0.07 | < 0.07 | < 0.07 | W100A60 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8034 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A61 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8003 | < 0.07 | 0.10 | < 0.07 | < 0.07 | < 0.07 | W100A62 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8015 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A63 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8043 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A64 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8002 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A65 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8036 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A66 | 10/05/00 | 10/06/00 | 10/11/00 | JLL |
| 8037 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A69 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8023 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A70 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8004 | < 0.07 | 0.11 | < 0.07 | < 0.07 | < 0.07 | W100A71 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8012 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A72 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8026 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A73 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8010 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A74 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8033 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A75 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8042 | < 0.07 | < 0.07 | 0.41 | < 0.07 | < 0.07 | W100A76 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8009 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A77 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8016 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A78 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8039 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A79 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8038 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A80 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| 8035 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A81 | 10/05/00 | 10/06/00 | 10/12/00 | JLL |
| Detection Limits | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | | | | | |

10/13/00

Analyst JLL

Reviewed

Microseeps

Quality Control

CDM97 -203770

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/11/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W100A45 | 1.25 | 1.31 | 4.80 |
| Toluene | W100A45 | 1.06 | 1.11 | 4.72 |
| Ethyl Benzene | W100A45 | 0.92 | 0.97 | 5.43 |
| M/P Xylene | W100A45 | 1.84 | 1.94 | 5.43 |
| Ortho Xylene | W100A45 | 0.92 | 0.97 | 5.43 |

N2 in vial 10/11/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W100A46 | 0.07 | ND |
| Toluene | W100A46 | 0.07 | ND |
| Ethyl Benzene | W100A46 | 0.07 | ND |
| M/P Xylene | W100A46 | 0.07 | ND |
| Ortho Xylene | W100A46 | 0.07 | ND |

Continuing Calibration Standards 10/12/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W100A67 | 1.25 | 1.30 | 4.00 |
| Toluene | W100A67 | 1.06 | 1.11 | 4.72 |
| Ethyl Benzene | W100A67 | 0.92 | 0.96 | 4.35 |
| M/P Xylene | W100A67 | 1.84 | 1.96 | 6.52 |
| Ortho Xylene | W100A67 | 0.92 | 0.97 | 5.43 |

N2 in vial 10/12/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W100A68 | 0.07 | ND |
| Toluene | W100A68 | 0.07 | ND |
| Ethyl Benzene | W100A68 | 0.07 | ND |
| M/P Xylene | W100A68 | 0.07 | ND |
| Ortho Xylene | W100A68 | 0.07 | ND |

Analyst JLL

Reviewed

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLATA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA-CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases ( CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury ( Soil ) or ( Air ** ) | K | TPH ( C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS ( Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type (SOLGAS) | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-5 | 1115 | 1 | | | 8004 | A | | | | | | |
| | 1125 | 1 | | | 8004 | H | | | | | | |
| | 1145 | 1 | | | 8005 | A | | | | | | |
| | 1150 | 1 | | | 8005 | H | | | | | | |
| | 203 | 1 | | | 8038 | A | | | | | | |
| | 208 | 1 | | | 8038 | H | | | | | | |
| | 155 | 1 | | | 8039 | A | | | | | | |
| | 200 | 1 | | | 8039 | H | | | | | | |
| | 200 | 1 | | | 8043 | A | | | | | | |
| | 205 | 1 | | | 8043 | H | | | | | | |
| | 223 | 1 | | | 8042 | A | | | | | | |
| | 228 | 1 | | | 8042 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | ETI | 10-5 | 4:30P | | CDM | 10/5/00 | 4:35pm |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | | | 10-6-00 | 11:00 |
| Relinquished by : | Company : | Date : | Time : | Received by : Fedex | Company : 822029600219 | Date : 10/5/00 | Time : 5:30pm |

203710/CDM 4

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

### Analysis Options

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases ( CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury ( Soil ) or ( Air ** ) | K | TPH ( C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS ( Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | ( Other ) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-5 | 1010 | 1 | | SOIL GAS | 8032 | A | | | | | | |
| | 1015 | 1 | | | 8032 | H | | | | | | |
| | 1018 | 1 | | | 8033 | A | | | | | | |
| | 1022 | 1 | | | 8033 | H | | | | | | |
| | 1025 | 1 | | | 8034 | A | | | | | | |
| | 1030 | 1 | | | 8034 | H | | | | | | |
| | 1100 | 1 | | | 8001 | A | | | | | | |
| | 1105 | 1 | | | 8001 | H | | | | | | |
| | 1105 | 1 | | | 8002 | A | | | | | | |
| | 1109 | 1 | | | 8002 | H | | | | | | |
| | 1135 | 1 | | | 8003 | A | | | | | | |
| | 1140 | 1 | | | 8003 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| [signature] | ETI | 2000 10-5 | 4:30P | [signature] | CDM | 10/5/00 | 4:35pm |
| | | | | [signature] | — | 10-6-00 | 11:00 |
| | | | | Fedex | 822029600219 | 10/5/00 | 5:30pm |

# MICROSEEPS, Inc.

203811 / COM 100 4 of 5

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases (CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury (Soil ) or ( Air ** ) | K | TPH (C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS (Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-11 | 345 | 1 | | | 9021 ✓ | A | | | | | | |
| | 350 | 1 | | | 9021 ✓ | H | | | | | | |
| | 355 | 1 | | | 9025 ✓ | A | | | | | | |
| | 400 | 1 | | | 9025 ✓ | H | | | | | | |
| | 400 | 1 | | | 9029 ✓ | A | | | | | | |
| | 405 | 1 | | | 9029 ✓ | H | | | | | | |
| | 410 | 1 | | | 9033 ✓ | A | | | | | | |
| | 415 | 1 | | | 9033 ✓ | H | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| [illegible] | ETI | 10-11 | 4:30P | [illegible] | CDM | 10/11/00 | 4:40 AM |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | [illegible] | — | 10-12 | 10 30 |
| Relinquished by : | Company : | Date : | Time : | Received by : [illegible] | Company : #6270 2960 0208 | Date : 10/11/00 | Time : 5:00PM |

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245
FAX (412) 826-3433

October 31, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 13, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM102-203827

Microseeps

CDM102-203827

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

| Sample Names | Methane (%V) | Methane (PPMV) | Ethane (PPMV) | Ethylene (PPMV) | Propane (PPMV) | Propylene (PPMV) | Iso-Butane (PPMV) | N-Butane (PPMV) | Lab ID | Date Sampled | Date Received | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9051 | * | 2.05 | 0.20 | 0.14 | 0.09 | 0.11 | < 0.03 | < 0.03 | T39 251 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9038 | * | 3.89 | 0.20 | 0.21 | 0.07 | 0.13 | < 0.03 | < 0.03 | T39 252 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9036 | * | 4.72 | 0.32 | 0.24 | 0.10 | 0.16 | < 0.03 | < 0.03 | T39 253 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9044 | * | 3.40 | 0.14 | 0.12 | 0.05 | 0.11 | < 0.03 | < 0.03 | T39 254 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9042 | * | 2.01 | 0.28 | 0.21 | 0.12 | 0.17 | < 0.03 | < 0.03 | T39 255 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9054 | * | 1.29 | 0.12 | 0.07 | 0.05 | 0.09 | < 0.03 | < 0.03 | T39 256 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9048 | * | 2.67 | 0.18 | 0.05 | 0.10 | 0.08 | 0.05 | 0.06 | T39 257 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9040 | * | 69.6 | 0.38 | 0.30 | 0.26 | 0.24 | 0.11 | 0.11 | T39 258 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9050 | * | 168 | 0.37 | 0.19 | 0.16 | 0.22 | 0.04 | 0.06 | T39 259 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9055 | 0.05 | * | 1.66 | 0.06 | 0.14 | 0.05 | 0.25 | 0.07 | T39 260 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9053 | * | 1.98 | 0.09 | 0.04 | 0.05 | < 0.03 | < 0.03 | < 0.03 | T39 261 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9052 | * | 1.20 | 0.08 | 0.06 | 0.03 | 0.04 | < 0.03 | < 0.03 | T39 262 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| 9049 | * | 2.70 | 0.22 | 0.15 | 0.08 | 0.10 | < 0.03 | < 0.03 | T39 263 | 10/12/00 | 10/13/00 | 10/27/00 | MM |
| DETECTION LIMITS | 0.02 | 0.04 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | | | | | |

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST mb.

REVIEW K

Microseeps

CDM102-203827

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/27/00

| COMPOUND | FILE ID | TRUE CONC. | MEASURED | % DIFF. |
|---|---|---|---|---|
| METHANE (FID) | T39 228 | 30.00 | 31.80 | 6.00 |
| ETHANE | T39 228 | 10.00 | 9.84 | 1.60 |
| ETHYLENE | T39 228 | 10.00 | 9.79 | 2.15 |
| PROPANE | T39 228 | 10.00 | 9.79 | 2.10 |
| PROPYLENE | T39 228 | 10.00 | 9.80 | 2.00 |
| ISO-BUTANE | T39 228 | 10.00 | 10.26 | 2.60 |
| N-BUTANE | T39 228 | 10.00 | 10.65 | 6.50 |

HE IN LOOP 10/27/00

| COMPOUND | FILE ID | DET. LIMIT | MEASURED |
|---|---|---|---|
| METHANE (FID) | T39 230 | 0.04 PPMV | ND |
| ETHANE | T39 230 | 0.01 PPMV | ND |
| ETHYLENE | T39 230 | 0.01 PPMV | ND |
| PROPANE | T39 230 | 0.03 PPMV | ND |
| PROPYLENE | T39 230 | 0.03 PPMV | ND |
| ISO-BUTANE | T39 230 | 0.03 PPMV | ND |
| N-BUTANE | T39 230 | 0.03 PPMV | ND |

ANALYST INITIALS nb.

REVIEW

Microseeps

CDM102 -203827

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

| Sample ID | Benzene | Toluene | Ethyl Benzene | M/P Xylene | Ortho Xylene | Lab ID | Date Sampled | Date Received | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| 9038 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A197 | 10/12/00 | 10/13/00 | 10/19/00 | JLL |
| 9040 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A198 | 10/12/00 | 10/13/00 | 10/19/00 | JLL |
| 9042 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A199 | 10/12/00 | 10/13/00 | 10/19/00 | JLL |
| 9036 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A200 | 10/12/00 | 10/13/00 | 10/19/00 | JLL |
| 9050 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A204 | 10/12/00 | 10/13/00 | 10/20/00 | JLL |
| 9051 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A205 | 10/12/00 | 10/13/00 | 10/20/00 | JLL |
| 9049 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A206 | 10/12/00 | 10/13/00 | 10/20/00 | JLL |
| 9048 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A207 | 10/12/00 | 10/13/00 | 10/20/00 | JLL |
| 9052 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A208 | 10/12/00 | 10/13/00 | 10/20/00 | JLL |
| 9053 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A209 | 10/12/00 | 10/13/00 | 10/20/00 | JLL |
| 9054 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A210 | 10/12/00 | 10/13/00 | 10/20/00 | JLL |
| 9055 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A211 | 10/12/00 | 10/13/00 | 10/20/00 | JLL |
| 9044 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A212 | 10/12/00 | 10/13/00 | 10/20/00 | JLL |
| DetectionLimits | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | | | | | |

10/23/00

Analyst JLL

Reviewed

Microseeps

***** Quality Control *****

CDM102-203827

----- Camp Dresser & McKee -----
----- Location: Playavista -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/19/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W100A179 | 1.25 | 1.25 | 0.00 |
| Toluene | W100A179 | 1.06 | 1.08 | 1.89 |
| Ethyl Benzene | W100A179 | 0.92 | 0.95 | 3.26 |
| M/P Xylene | W100A179 | 1.84 | 1.92 | 4.35 |
| Ortho Xylene | W100A179 | 0.92 | 0.96 | 4.35 |

N2 in vial 10/19/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W100A180 | 0.07 | ND |
| Toluene | W100A180 | 0.07 | ND |
| Ethyl Benzene | W100A180 | 0.07 | ND |
| M/P Xylene | W100A180 | 0.07 | ND |
| Ortho Xylene | W100A180 | 0.07 | ND |

Continuing Calibration Standards 10/20/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W100A202 | 1.25 | 1.23 | 1.60 |
| Toluene | W100A202 | 1.06 | 1.05 | 0.94 |
| Ethyl Benzene | W100A202 | 0.92 | 0.91 | 1.09 |
| M/P Xylene | W100A202 | 1.84 | 1.86 | 1.09 |
| Ortho Xylene | W100A202 | 0.92 | 0.91 | 1.09 |

N2 in vial 10/20/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W100A203 | 0.07 | ND |
| Toluene | W100A203 | 0.07 | ND |
| Ethyl Benzene | W100A203 | 0.07 | ND |
| M/P Xylene | W100A203 | 0.07 | ND |
| Ortho Xylene | W100A203 | 0.07 | ND |

Analyst JLL/MAM

Reviewed

CUSTODY / CONTROL

1 of 3

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: NERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

### Analysis Options

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases (CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury (Soil) or (Air **) | K | TPH (C5 - C10) or (C4 -C12) |
| E | TO-14 by GC/MS (Ambient) or (Source **) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-12 | 1005 | 1 | | | 9036 | A | | | | | | ✓ |
| | 1010 | 1 | | | 9036 | H | | | | | | ✓ |
| | 1020 | 1 | | | 9038 ✓ | A | | | | | | ✓ |
| | 1025 | 1 | | | 9038 ✓ | H | | | | | | ✓ |
| | 1035 | 1 | | | 9040 ✓ | A | | | | | | ✓ |
| | 1040 | 1 | | | 9040 ✓ | H | | | | | | ✓ |
| | 1055 | 1 | | | 9042 ✓ | A | | | | | | NOT LABELED * |
| | 1100 | 1 | | | 9042 ✓ | H | | | | | | NOT LABELED * |
| | 1100 | 1 | | | 9044 ✓ | A | | | | | | ✓ |
| | 1105 | 1 | | | 9044 ✓ | H | | | | | | ✓ |
| | 1110 | 1 | | | 9050 ✓ | A | | | | | | NOT LABELED * |
| | 1115 | 1 | | | 9050 ✓ | H | | | | | | NOT LABELED * |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | ETJ | 10-12 | 2:30P | | CDM | 10/12/a | 2:35 |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | | — | 10-13 | 1100 |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | CDM | 10/12/a | 3:00 | Fed Ex | | | |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

2 of 3

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MER SCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| *A | C1 -C4 | G | Chlorinated HC |
| *B | Hydrogen & Helium | H | BTEX |
| *C | Permanent Gases (CH4, CO, CO2, N2, O2) | J | BTEX & C5 - C10 |
| D | Mercury (Soil) or (Air **) | K | TPH (C5 - C10) or (C4 -C12) |
| E | TO-14 by GC/MS (Ambient) or (Source **) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type SOIL/AIR | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-12 | 1125 | 1 | | | 9051 | A | | | | | | |
| | 1130 | 1 | | | 9051 | H | | | | | | |
| | 1140 | 1 | | | 9049 | A | | | | | | |
| | 1145 | 1 | | | 9049 | H | | | | | | |
| | 1155 | 1 | | | 9048 | A | | | | | | |
| | NOON | 1 | | | 9048 | H | | | | | | |
| | 125 | 1 | | | 9052 | A | | | | | | |
| | 130 | 1 | | | 9052 | H | | | | | | |
| | 135 | 1 | | | 9053 | A | | | | | | |
| | 140 | 1 | | | 9053 | H | | | | | | |
| | 155 | 1 | | | 9054 | A | | | | | | |
| | 200 | 1 | | | 9054 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | ETJ | 10-12 | 2300 | | CDM | 10/12/ | 2:35 |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | | | 10-13 | 11:00 |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | CDM | 10/12/00 | 2:00 | Fed EX | | | |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

3 of 3

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases ( CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury ( Soil ) or ( Air ** ) | K | TPH ( C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS ( Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Matrix | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-12 | 200 | 1 | | " | 9055 ✓ | A | | | | | | |
| 10-12 | 210 | 1 | | " | 9055 ✓ | A | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | STI | 10-12 | 230p | | CDM | 10/12/10 | 235 |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | | | | | — | 10-13 | 11 00 |
| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
| | CDM | 10/12/10 | 3.0 | Fed Ex | | | |

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245
FAX (412) 826-3433

October 31, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 11, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM100-203808

Microseeps

CDM100-203808

---- CAMP DRESSER & MCKEE ----
---- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA ----

| Sample Names | Methane (%V) | Methane (PPMV) | Ethane (PPMV) | Ethylene (PPMV) | Propane (PPMV) | Propylene (PPMV) | Iso-Butane (PPMV) | N-Butane (PPMV) | Lab ID | Date Sampled | Date Received | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7032 | * | 2.14 | 0.06 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 | T39 149 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9004 | 1.82 | * | 96.4 | 0.22 | 2.12 | <0.03 | 0.45 | 0.19 | T39 150 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9027 | * | 3.62 | 0.18 | 0.07 | 0.07 | 0.07 | 0.04 | 0.04 | T39 151 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9023 | * | 3.29 | 0.15 | 0.11 | 0.06 | 0.05 | <0.03 | <0.03 | T39 152 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9020 | 0.48 | * | 0.59 | 0.35 | 0.59 | 0.25 | 0.15 | 0.21 | T39 153 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 7036 | * | 5.52 | 0.03 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | T39 154 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9012 | * | 6.31 | 0.60 | 0.76 | 0.22 | 0.57 | <0.03 | 0.07 | T39 155 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9008 | * | 64.24 | 0.55 | 0.30 | 0.22 | 0.23 | 0.05 | 0.08 | T39 156 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9015 | * | 2.86 | 0.19 | 0.15 | 0.07 | 0.11 | <0.03 | <0.03 | T39 157 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9011 | 15.99 | * | 709.9 | < 0.01 | 1.88 | 0.12 | 0.60 | 0.65 | T39 158 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9024 | 0.41 | * | 0.61 | 0.33 | 0.47 | 0.24 | 0.10 | 0.16 | T39 159 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9019 | * | 2.06 | 0.06 | 0.05 | <0.03 | <0.03 | <0.03 | <0.03 | T39 160 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 7033 | * | 11.12 | 0.04 | 0.02 | <0.03 | <0.03 | <0.03 | <0.03 | T39 161 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9003 | 5.43 | * | 249.5 | 0.18 | 1.30 | 0.28 | 0.63 | 0.47 | T39 162 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9016 | * | 409.2 | 0.31 | 0.19 | 0.20 | 0.15 | 0.06 | 0.07 | T39 163 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9007 | 1.82 | * | 210.3 | 0.18 | 0.26 | 0.15 | 0.28 | 0.12 | T39 164 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 7026 | * | 8.63 | 0.10 | 0.07 | 0.04 | 0.05 | <0.03 | <0.03 | T39 165 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| 9031 | * | 2.45 | 0.10 | 0.10 | 0.04 | 0.06 | <0.03 | <0.03 | T39 166 | 10/10/00 | 10/11/00 | 10/25/00 | MM |
| DETECTION LIMITS | 0.02 | 0.04 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | | | | | |

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST

REVIEW

Microseeps

***** QUALITY CONTROL *****

CDM100-203808

----- CAMP DRESSER & MCKEE -----
---- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA ----

CONTINUING CALIBRATION STANDARDS 10/25/00

| COMPOUND | FILE ID | TRUE CONC. | MEASURED | % DIFF. |
|---|---|---|---|---|
| METHANE (FID) | T39 120 | 30.00 | 30.86 | 2.87 |
| ETHANE | T39 120 | 10.00 | 9.42 | 5.80 |
| ETHYLENE | T39 120 | 10.00 | 9.32 | 6.80 |
| PROPANE | T39 120 | 10.00 | 9.30 | 7.00 |
| PROPYLENE | T39 120 | 10.00 | 9.17 | 8.30 |
| ISO-BUTANE | T39 120 | 10.00 | 9.63 | 3.70 |
| N-BUTANE | T39 120 | 10.00 | 9.77 | 2.30 |

HE IN LOOP 10/25/00

| COMPOUND | FILE ID | DET. LIMIT | MEASURED |
|---|---|---|---|
| METHANE (FID) | T39 122 | 0.04 PPMV | ND |
| ETHANE | T39 122 | 0.01 PPMV | ND |
| ETHYLENE | T39 122 | 0.01 PPMV | ND |
| PROPANE | T39 122 | 0.03 PPMV | ND |
| PROPYLENE | T39 122 | 0.03 PPMV | ND |
| ISO-BUTANE | T39 122 | 0.03 PPMV | ND |
| N-BUTANE | T39 122 | 0.03 PPMV | ND |

ANALYST INITIALS

REVIEW

Microseeps

CDM100 -203808

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

| Sample ID | Benzene | Toluene | Ethyl Benzene | M/P Xylene | Ortho Xylene | Lab ID | Date Sampled | Date Received | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| 7032 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A145 | 10/10/00 | 10/11/00 | 10/17/00 | JLL |
| 9004 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A146 | 10/10/00 | 10/11/00 | 10/17/00 | JLL |
| 9027 | < 0.07 | < 0.07 | 0.35 | < 0.07 | < 0.07 | W100A147 | 10/10/00 | 10/11/00 | 10/17/00 | JLL |
| 9023 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A148 | 10/10/00 | 10/11/00 | 10/17/00 | JLL |
| 9020 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A149 | 10/10/00 | 10/11/00 | 10/17/00 | JLL |
| 7036 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A150 | 10/10/00 | 10/11/00 | 10/17/00 | JLL |
| 9012 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A151 | 10/10/00 | 10/11/00 | 10/17/00 | JLL |
| 9008 | < 0.07 | 0.08 | 0.10 | < 0.07 | < 0.07 | W100A152 | 10/10/00 | 10/11/00 | 10/17/00 | JLL |
| 9015 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A153 | 10/10/00 | 10/11/00 | 10/17/00 | JLL |
| 9011 | < 0.07 | < 0.07 | < 0.07 | 0.09 | < 0.07 | W100A154 | 10/10/00 | 10/11/00 | 10/17/00 | JLL |
| 9024 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A159 | 10/10/00 | 10/11/00 | 10/18/00 | JLL |
| 9019 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A160 | 10/10/00 | 10/11/00 | 10/18/00 | JLL |
| 7033 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A161 | 10/10/00 | 10/11/00 | 10/18/00 | JLL |
| 9003 | < 0.07 | 0.30 | < 0.07 | < 0.07 | < 0.07 | W100A162 | 10/10/00 | 10/11/00 | 10/18/00 | JLL |
| 9016 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A163 | 10/10/00 | 10/11/00 | 10/18/00 | JLL |
| 9007 | < 0.07 | 0.14 | < 0.07 | < 0.07 | < 0.07 | W100A164 | 10/10/00 | 10/11/00 | 10/18/00 | JLL |
| 7026 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A165 | 10/10/00 | 10/11/00 | 10/18/00 | JLL |
| 9031 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | < 0.07 | W100A169 | 10/10/00 | 10/11/00 | 10/18/00 | JLL |
| Detection Limits | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | | | | | |

10/20/00

Analyst JLL

Reviewed

Microseeps

Quality Control

CDM100 -203808

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/17/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W100A134 | 1.25 | 1.32 | 5.60 |
| Toluene | W100A134 | 1.06 | 1.08 | 1.89 |
| Ethyl Benzene | W100A134 | 0.92 | 0.94 | 2.17 |
| M/P Xylene | W100A134 | 1.84 | 1.90 | 3.26 |
| Ortho Xylene | W100A134 | 0.92 | 0.94 | 2.17 |

N2 in vial 10/17/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W100A135 | 0.07 | ND |
| Toluene | W100A135 | 0.07 | ND |
| Ethyl Benzene | W100A135 | 0.07 | ND |
| M/P Xylene | W100A135 | 0.07 | ND |
| Ortho Xylene | W100A135 | 0.07 | ND |

Continuing Calibration Standards 10/18/00

| Compound | Lab ID | True Conc. | Measured | % Diff. |
|---|---|---|---|---|
| Benzene | W100A157 | 1.25 | 1.19 | 4.80 |
| Toluene | W100A157 | 1.06 | 1.03 | 2.83 |
| Ethyl Benzene | W100A157 | 0.92 | 0.92 | 0.00 |
| M/P Xylene | W100A157 | 1.84 | 1.83 | 0.54 |
| Ortho Xylene | W100A157 | 0.92 | 0.91 | 1.09 |

N2 in vial 10/18/00

| Compound | Lab ID | Report. Limit (ppmv) | Measured |
|---|---|---|---|
| Benzene | W100A158 | 0.07 | ND |
| Toluene | W100A158 | 0.07 | ND |
| Ethyl Benzene | W100A158 | 0.07 | ND |
| M/P Xylene | W100A158 | 0.07 | ND |
| Ortho Xylene | W100A158 | 0.07 | ND |

Analyst JLL/MAM

Reviewed

203808-CDM100 1 of 4

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MARSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases ( CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury ( Soil ) or ( Air ** ) | K | TPH ( C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS ( Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date (OCT 10) | Time | Number of Containers | "Summa" # if Can. used | Sample Type (SUMMAS) | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-10 | 915 | 1 | | | 7032 | A | | | | | | |
| | 920 | 1 | | | 7032 | H | | | | | | |
| | 930 | 1 | | | 7033 | A | | | | | | |
| | 935 | 1 | | | 7033 | H | | | | | | |
| | 1035 | 1 | | | 7034 | A | | | | | | |
| | 1040 | 1 | | | 7034 | H | | | | | | |
| | 1000 | 1 | | | 7036 | A | | | | | | |
| | 1005 | 1 | | | 7036 | H | | | | | | |
| | 1015 | 1 | | | 7037 | A | | | | | | |
| | 1020 | 1 | | | 7037 | H | | | | | | |
| | 1100 | 1 | | | 7029 | A | | | | | | |
| | 1110 | 1 | | | 7029 | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | E+J | 10-10 | 4:30P | James Fortuna | CDM | 10/10/00 | 4:35pm |
| | | | | | Microseeps | 10-11-00 | 1200 |
| | | | | Fedex | 8220 2916 0019 3 | 10/10/00 | 4:55pm |

2 of 4

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MERSCHAT
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :
Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases (CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury (Soil ) or ( Air ** ) | K | TPH (C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS (Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type (SOIL GAS) | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-10 | 1120 | 1 | | | 7030 | A | | | | | | |
| | 1130 | 1 | | | 7030 | H | | | | | | |
| | 1135 | 1 | | | 7026 ✓ | A | | | | | | |
| | NOON | 1 | | | 7026 ✓ | H | | | | | | |
| | 150 | 1 | | | 9003 ✓ | A | | | | | | |
| | 155 | 1 | | | 9003 ✓ | H | | | | | | |
| | 200 | 1 | | | 9004 ✓ | A | | | | | | |
| | 205 | 1 | | | 9004 ✓ | H | | | | | | |
| | 205 | 1 | | | 9007 ✓ | A | | | | | | |
| | 210 | 1 | | | 9007 ✓ | H | | | | | | |
| | 220 | 1 | | | 9008 ✓ | A | | | | | | |
| | 225 | 1 | | | 9008 ✓ | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| [signature] | EFI | 10-10 | 4:30P | James Fortuna | CDM | 10/10/00 | 4:35pm |
| Relinquished by : | Company : | Date : | Time : | Received by : [signature] | Company : Microseeps | Date : 10-11-00 | Time : 1200 |
| Relinquished by : | Company : | Date : | Time : | Received by : Fedex | Company : # 8220 2960 0193 | Date : 10/10/00 | Time : 4:35PM |

3 of 4

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases ( CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury ( Soil ) or ( Air ** ) | K | TPH ( C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS ( Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-10 | 225 | 1 | | SOIL GAS | 9011 ✓ | A | | | | | | |
| | 230 | 1 | | | 9011 ✓ | H | | | | | | |
| | 235 | 1 | | | 9012 ✓ | A | | | | | | |
| | 240 | 1 | | | 9012 ✓ | H | | | | | | |
| | 247 | 1 | | | 9015 ✓ | A | | | | | | |
| | 249 | 1 | | | 9015 ✓ | H | | | | | | |
| | 250 | 1 | | | 9016 ✓ | A | | | | | | |
| | 255 | 1 | | | 9016 ✓ | H | | | | | | |
| | 255 | 1 | | | 9019 ✓ | A | | | | | | |
| | 300 | 1 | | | 9019 ✓ | H | | | | | | |
| | 310 | 1 | | | 9020 ✓ | A | | | | | | |
| | 315 | 1 | | | 9020 ✓ | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| [signature] | ZTI | 10-10 | 4:30P | James Fortuna | CDM | 10/10/00 | 4:35pm |
| Relinquished by : | Company : | Date : | Time : | Received by : [signature] | Company : Microseeps | Date : 10-11-00 | Time : 1200 |
| Relinquished by : | Company : | Date : | Time : | Received by : Fedex | Company : #8220 29600193 | Date : 10/10/00 | Time : 4:35pm |

# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

4 of 4

## CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

**Analysis Options**

| | | | |
|---|---|---|---|
| * A | C1 -C4 | G | Chlorinated HC |
| * B | Hydrogen & Helium | H | BTEX |
| * C | Permanent Gases ( CH4, CO, CO2, N2, O2 ) | J | BTEX & C5 - C10 |
| D | Mercury ( Soil ) or ( Air ** ) | K | TPH ( C5 - C10 ) or ( C4 -C12 ) |
| E | TO-14 by GC/MS ( Ambient ) or ( Source ** ) | L | C11 - C18 |
| F | 601 & 602 Compounds | Other | Specify below. |

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

| Collection Date | Collection Time | Number of Containers | "Summa" # if Can. used | Sample Type (SOIL GAS) | Sample Identification | Requested Analyses | | | | | (Other) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/10 | 320 | 1 | | | 9023 ✓ | A | | | | | | |
| | 325 | 1 | | | 9023 ✓ | H | | | | | | |
| | 330 | 1 | | | 9024 ✓ | A | | | | | | |
| | 335 | 1 | | | 9024 ✓ | H | | | | | | |
| | 340 | 1 | | | 9027 ✓ | A | | | | | | |
| | 345 | 1 | | | 9027 ✓ | H | | | | | | |
| | 405 | 1 | | | 9031 ✓ | A | | | | | | |
| | 410 | 1 | | | 9031 ✓ | H | | | | | | |
| | | | | | | A | | | | | | |
| | | | | | | H | | | | | | |
| | | | | | | A | | | | | | |
| | | | | | | H | | | | | | |

Results to :

Invoice to :

| Relinquished by : | Company : | Date : | Time : | Received by : | Company : | Date : | Time : |
|---|---|---|---|---|---|---|---|
| | ETI | 10 10 | 4:30P | James Fortuna | CDM | 10/10/00 | 4:35pm |
| | | | | | Microseeps | 10-11-00 | 1200 |
| | | | | Fedex | #822029600113 | 10/11/00 | 4:55pm |