

VOLUME III Remedial Investigation Report South Mesa WQARF Registry Site Mesa, Arizona ADEQ Task Assignment EV11-0084

Prepared for:

Arizona Department of Environmental Quality
Waste Programs Division
1110 West Washington Street
Phoenix, Arizona 85007

Prepared by:

AMEC Environment & Infrastructure, Inc. Phoenix, Arizona

June 7, 2013

AMEC Project No. 14-2012-2022.04.01





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APPENDIX D

UNDERGROUND DETECTION SERVICE GEOPHYSICAL REPORT



Underground Detection Services, Inc.

6809 North 56th Ave. Glendale, AZ 85301

623/939-4690, tel 623/955-3146, fax 888/822-4999, toll free May 16, 2001

Jim Clarke Law Engineering 4634 S. 36th Pl. Phoenix, AZ 85040

Dear Jim:

This is a report on the equipment, procedures, and results of the geophysical survey performed at the north parking lot of the Gilbert Glass office in Gilbert, AZ. The survey was conducted on May 14, 2001.

The purpose of the survey was to determine the location of the septic tank and cesspool at the site. The east bay of the building was also surveyed for underground utility lines.

The equipment used for the survey included but was not limited to a GSSI Gem-300 multi-frequency electromagnetic (EM) profiler, and GSSI Sir System II ground penetrating radar (GPR) with 400 MHz antenna, Prototek RDF sewer locator, and a MetroTech 810 pipe and cable locator.

The EM produces a sinusoidal signal that is transmitted into the subsurface. This transmitted signal induces a flow of electrical current into the soil. These currents in turn induce a secondary electromagnetic field. The presence or absence of metallic objects and voids affects this secondary field. The secondary electromagnetic field is measured, collected, interpreted and stored for later processing.

The GPR utilizes high frequency radio waves to probe the subsurface. A radio wave is emitted from the antenna and travels through the soil, if there is an anomaly below the antenna; the radio wave is reflected back. The data that is collected is displayed both in real time, through a color display, and on a hard copy, thermal fax paper.

The data that is produced is a cross section of the geology directly below the antenna. The top of the data represents the ground surface while the bottom of the page is a known depth. The data is collected and displayed from left to right, with left being the beginning and right being the end of the particular survey line. Typical anomalies appear in white and gray coloring.

The depth of the signal penetration is dependant upon geological factors beyond the control of the surveyor. Conductive soils, clays and saturated, do not allow the GPR signal to penetrate as deeply as resistive soils,

sandy. The depth of penetration for this survey was determined to be approximately 3 feet.

The pipe and cable locator uses a defined radio frequency induced on the line from a transmitter attached to the line at the surface. The frequency travels the length of the line and acts as an antenna below the surface. A receiver tuned to that frequency is carried above the surface and locates the line with that frequency. Non-metallic pipes do not carry radio frequencies and therefore cannot be located with this equipment.

The sewer locator utilizes a radio transmitter that is inserted into the pipe. The transmitter is then pushed through the pipe and located from above ground with a receiver and various points along the pipes path.

The transmitter was inserted into the pipe through a wall cleanout behind the bathrooms. The transmitter was pushed out of the building and located at several places and marked on the surface. At a point consistent with the information provided by the environmental tech, the transmitter would not proceed further. This was determined to be the inlet baffle of the septic tank. That point was marked on the surface and labeled.

The EM was used first on the survey due to the ease and speed of data collection. If an anomaly appears in the data of the EM, the GPR may then be used to further delineate the area. To determine if the anomaly is iron based, the magnetic locator would be used.

The geophysical survey was setup north of the building from the west fence to a large delivery truck on the east side. There were several vehicles and debris in the lot that could not be moved that did not allow for full coverage for the survey. The survey area was setup with grid lines 5' apart running parallel to each other.

The EM was initially set up to record 4 separate frequencies for the survey, from 330Hz to 19950Hz in the continuous survey mode. The multiple frequencies allow for variable depth measurements. The lower the frequency, 330 Hz, the greater the depth penetration of the frequency. The higher the frequency, 19950 Hz, the shallower the depth penetration of the frequency. The continuous survey mode was set up to generate the frequencies every ½ second. The estimated depth penetration of the frequencies for this survey was 2 feet to 8 feet.

Each frequency is made up of two components, in-phase (I) and quadrature (Q). The in-phase response is typically high with metallic conductors while the quadrature response is typically high with non-metallic conductors. The grid maps are color-coded for easy interpretation. The green areas represent neutral readings while red areas represent high readings and possible anomalies.

The data collected, showed several areas of possible anomalies. The anomalies were marked on the corresponding EM map. Anomaly A1 was marked in both the 1290(I) and 1290(Q) grid maps of Area A Anomaly A2 was marked in the 1290(I).

Anomaly A1 appears in the metallic and non-metallic phase of the EM data and appears to be the edge of the septic tank. Anomaly A2 is the large delivery truck at the east end of the survey area.

The GPR was used west and north of the septic tank, and the east side of the parking lot where the vapor extraction wells are located. The GPR data shows the possibility of the cesspool directly north of the tank. The dry well on the east side of the parking lot was not detected.

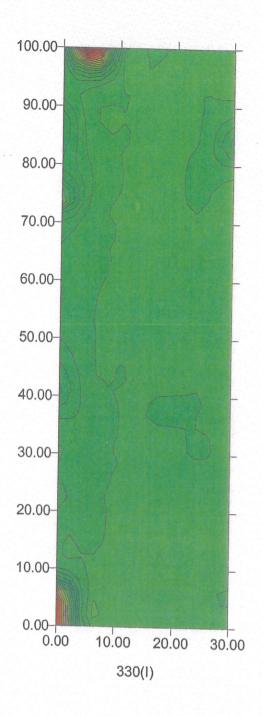
The site map was marked with the EM survey area, anomalies found and the GPR examination locations. The starting point of the EM survey was marked with an X.

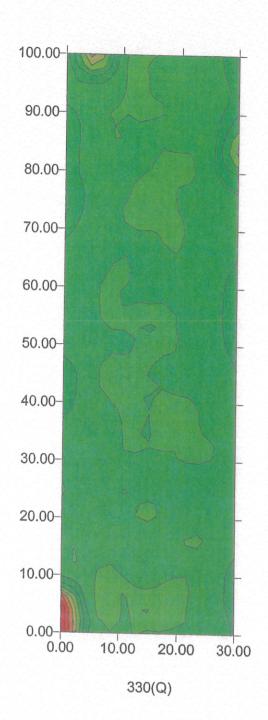
The raw data collected from the EM as well as the grid maps has been provided on a floppy disc. The GPR data is shown on hard copy color prints. Utilizing Microsoft Excel and Surfer software respectively can access the data.

If you have any questions, please feel free to call me.

Respectfully,

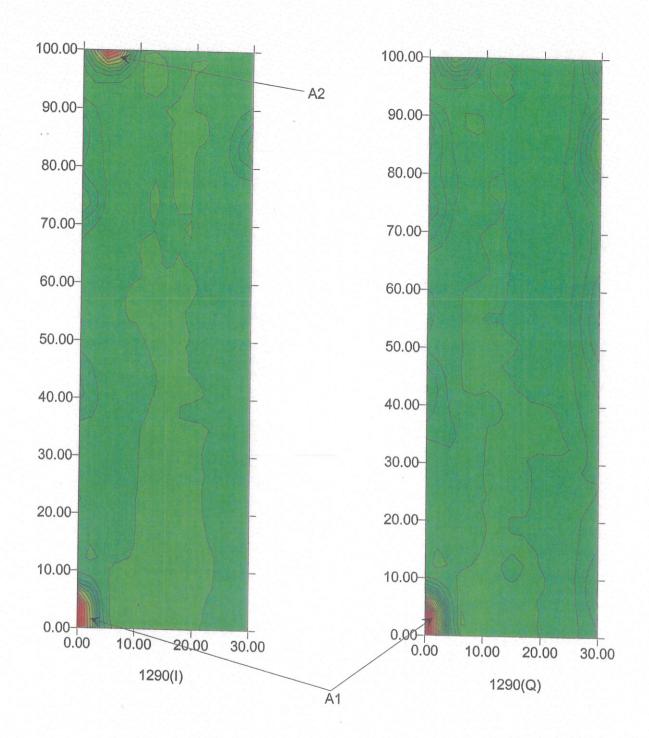
Richard A. Lund





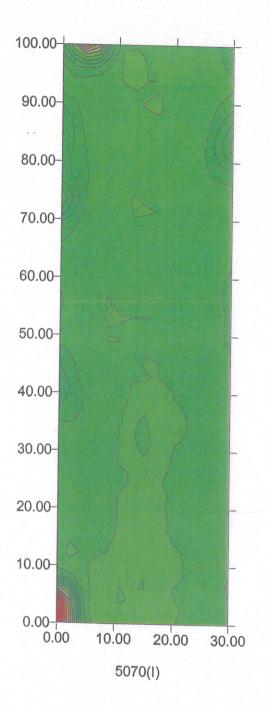
Area A

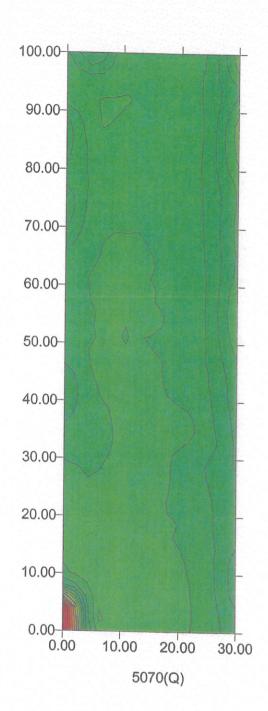




Area A

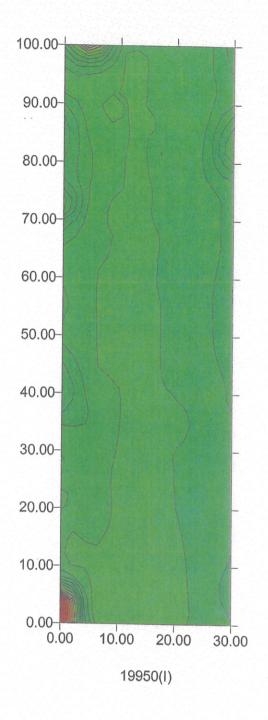


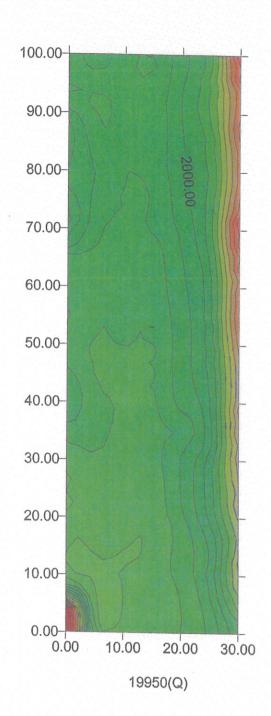




Area A





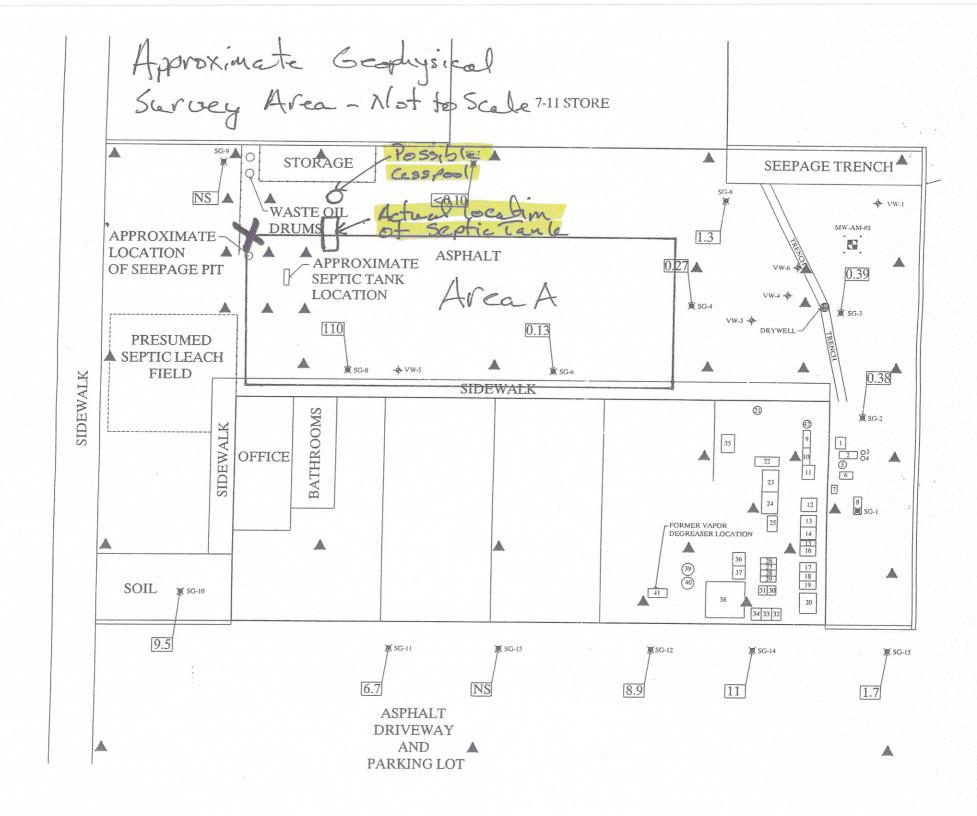


Area A



FILE1557.DZT May, 14 2001, 10:19:02

Vapor Extraction Pipe - East Parkin FILE1555.DZT May, 14 2001, 10:12:58 · Septie tank Possible Cosspool





APPENDIX E

BEACON ENVIRONMENTAL ANALYTICAL REPORT DATED JUNE 12, 2001

BEACON Report No. EM1330

EMFLUX® Passive Soil-Gas Survey

APPLIED METALLICS SITE GILBERT, AZ

Prepared for

Law Engineering & Environmental Services 4634 South 36th Place Phoenix, AZ 85040

by

BEACON Environmental Services, Inc. 19 Newport Drive Suite 102 Forest Hill, MD 21050

June 12, 2001

Applying Results from Soil-Gas Surveys

The utility of soil-gas surveys is directly proportional to their accuracy in reflecting and representing changes in the subsurface concentrations of source compounds. Passive soil-gas survey results are the mass collected from the vapor-phase emanating from the source. The vapor-phase is merely a fractional trace of the source, so, as a matter of convenience, the units used in reporting detection values from EMFLUX® surveys are smaller than those employed for source-compound concentrations.

The critical fact is that, whatever the relative concentrations of source and associated soil gas, best results are realized when the ratio of soil-gas measurements to actual subsurface concentrations remains as close to constant as the real world permits. It is the reliability and consistency of this ratio, not the particular units of mass (e.g., nanograms) that determine usefulness. Thus, BEACON emphasizes the necessity of conducting — at minimum — follow-on intrusive sampling at one or two points which show relatively high EMFLUX® values to obtain corresponding concentrations of soil and ground-water contaminants. These correspondent values furnish the basis for approximating the required ratio. Once that ratio is established, it can be used in conjunction with EMFLUX® measurements (regardless of the units adopted) to estimate subsurface contaminant concentrations across the survey field. It is important to keep in mind, however, that specific conditions at individual sample points, including soil porosity and permeability, depth to contamination, and perched ground water, can have significant impact on soil-gas measurements at those locations.

When EMFLUX® Surveys are handled in this way, the data provide information that can yield substantial savings in drilling costs and in time. They furnish, among other things, a checklist of compounds expected at each survey location and help to determine how and where drilling budgets can most effectively be spent.

EMFLUX® Survey Number: EM1330

Applied Metallics Site Gilbert, AZ

This EMFLUX® Soil-Gas Survey Report has been prepared for Law Engineering & Environmental Services (LAW) by Beacon Environmental Services, Inc. (BEACON) in accordance with the terms of the signed Order Confirmation Form, dated May 16, 2001. BEACON's principal technical contact at LAW for this project has been Mr. Jim Clarke.

1. Objectives

Soil-gas samples were collected to determine the presence, identity, and relative strength of targeted contaminants in soil and/or ground water at the Applied Metallics Site. Survey results will be used to determine the distribution of contaminants and to guide further site investigation.

2. Target Compounds

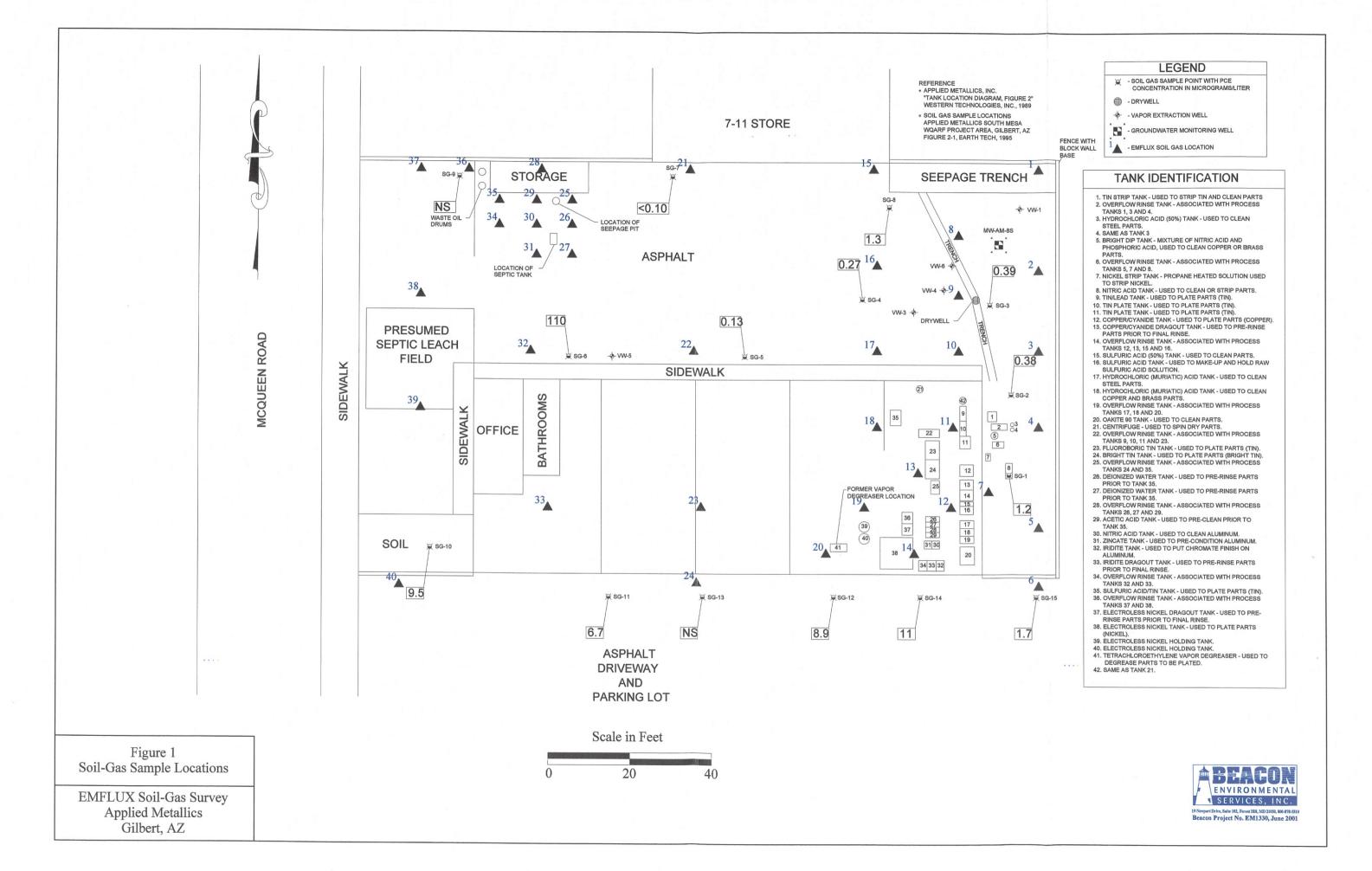
This survey targeted the 10 compounds listed in **Attachment 1**, which supplies the resulting laboratory data in nanograms (ng) of specific compound per cartridge. **Table 1** provides the resulting laboratory data for those compounds identified at one or more locations.

3. Survey Description

| • | No. of Field Sample Points: | 40 |
|---|---|----|
| • | No. of Duplicate Field Samples: | 2 |
| • | No. of Trip Blanks: | 2 |
| • | Total No. of EMFLUX® Cartridges: | |
| • | Field sample locations are shown on Figure 1 . | 44 |

4. Field Work

LAW was provided an EMFLUX® Field Kit with the equipment needed to conduct a 40-point EMFLUX® Soil-Gas Survey. Collectors were deployed on May 25, 2001, and retrieved on May 30, 2001, in accordance with the EMFLUX® timing model. Attachment 2 describes the field procedures used. Individual deployment and retrieval times will be found in the Field Deployment Report (Attachment 3).



5. Analysis and Reporting Dates

- BEACON's laboratory received 44 sample cartridges for analysis on May 31, 2001.
- BEACON's laboratory analyzed the samples for the specified compounds, using thermal desorption and a capillary-column gas chromatograph (GC) with a photoionization detector (PID) in series with a dry electrolytic conductivity detector (DELCD) in accordance with EPA Method 8021 (Attachment 4).
- Analysis was completed on June 4, 2001. Following a laboratory review, results were provided to LAW on June 6, 2001.

6. Report Notes and Quality Assurance/Quality Control Factors

- Table 1 provides survey results in nanograms per cartridge by sample-point number and compound name. The quantitation levels represent values above which quantitative laboratory results can be achieved within specified limits of precision and with a high degree of confidence. The quantitation level for each compound, therefore, provides a reliable basis for comparing the relative strength of any detection of that compound.
- Data Compatibility. It is important to note that when sample locations are covered with or near the edge of an artificial surface (e.g., asphalt or concrete), sample measurements are often distorted (increased) significantly. Such distortion can be attributed to the fact that gas rising from sources beneath impermeable caps tends to reach equilibrium underneath the cap. Thus, a reading taken below or near an impermeable surface is much higher than it would be in the absence of such a cap.
- The Chain-of-Custody form, which was shipped with the samples for this survey, is supplied as Attachment 5.
- Laboratory QA/QC procedures consist of control blanks and verifications, as well as
 system calibration, as specified for EPA Method 8021. Laboratory personnel conducted
 internal control blanks and internal control verification analyses daily to ensure that the
 system was contaminant free and properly calibrated. The system was calibrated using
 external-standard procedures to at least three different concentrations for each compound
 targeted.
- QA/QC Contaminant Corrections. Following EPA guidelines, EMFLUX® laboratory data is not corrected for method blank or trip blank sample contamination values; any contamination detected on QA/QC samples is reported in Attachment 1. Subsequent handling of QA/QC sample contamination depends upon the circumstances and origin of the sample; any corrective conventions noted below have proved highly useful in

deriving accurate and reproducible interpretations of survey data in prior EMFLUX® Surveys. No other methods thus far tested have produced comparable levels of quality.

- Laboratory method blanks are run each day with project samples to identify contamination present in the laboratory. If contamination is detected on a method blank, measurements of identical compounds on samples analyzed the same day are considered to be suspect and are flagged in the laboratory report. The laboratory method blank analyzed in connection with the present samples revealed no contamination.
- The **trip blank** is an EMFLUX® cartridge prepared, transported, and analyzed with other samples but intentionally not exposed. The trip blanks (labeled Trip-1 and Trip-2 in **Attachment 1**) recorded none of the targeted compounds, indicating that the survey site itself is the source of detected contamination.
- Duplicates. EMFLUX® collectors are prepared with two adsorbent cartridges for subsequent duplicates or confirmatory samples. The laboratory director performed duplicate analysis for sample locations 17 and 32. Because of finite differences between the cartridges, and the random nature of diffusive particle movement, comparisons between duplicates and primary samples should be made on a qualitative basis, as quantitative results may be subject to random distortions. In general, a duplicate correspondence should be defined as a difference of 50% or less between contaminant data for base and duplicate samples. Also, for the purpose of calculating correspondences, all non-detections should be assigned, as a baseline value, the quantitation level for the specific contaminant. Based on these assumptions, a 95% correlation was found between the duplicate samples and their base samples.
 - Survey findings are relative exclusively to this project and should not routinely be compared with results of other EMFLUX[®] Surveys. To establish a relationship between reported soil-gas measurements and actual subsurface contaminant concentrations, which will indicate those detections representing significant subsurface contamination, BEACON recommends the guidelines on the inside front cover of this report.
- At the request of LAW, the following compound distribution maps have been provided:

Figure 2 — Tetrachloroethene

Figure 3 — Trichloroethene

Figure 4 — cis-1,2-Dichloroethene

- The following Attachments are included:
 - -1-
 - Laboratory Report
 EMFLUX® Field Procedures -2-
 - Field Deployment Report -3-
 - Laboratory Procedures -4-
 - Chain-of-Custody Form -5-

EM1330

Table 1

Results in Nanograms (ng)

Analysis Completed: June 4, 2001

Applied Metallics

Gilbert, AZ

| SAMPLE NO. COMPOUNDS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|-----|-------|-------|-----|-------|-----|-------|-------|
| 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene | U | U | U | U | U | U | U | U |
| | U | U | U | U | U | U | U | U |
| | U | U | U | U | U | U | U | U |
| | 440 | 110 | 150 | 110 | 46 | 56 | 120 | 170 |
| | 200 | 1,000 | 1,400 | 830 | 1,300 | 670 | 1,500 | 3,000 |

| SAMPLE NO. | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--|-------|-------|-------|-------|-------|-------|-----|-----|
| COMPOUNDS 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene | U | U | U | U | U | U | U | U |
| | U | U | U | U | U | U | U | U |
| | U | U | U | U | U | 48 | U | U |
| | 160 | 240 | 200 | 270 | 220 | 200 | 63 | 340 |
| | 2,500 | 1,100 | 3,100 | 2,800 | 3,100 | 3,000 | 980 | 260 |

Table 1
(continued)
Results in Nanograms (ng)
Analysis Completed: June 4, 2001
Applied Metallics
Gilbert, AZ

| SAMPLE NO. COMPOUNDS | 17 | 17 D | 18 | 19 | 20 | 21 | 22 | 23 |
|---|-----|------|-------|-------|-------|-------|-----|-------|
| 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene | U | U | U | U | U | U | U | U |
| | 180 | 250 | U | U | U | U | U | U |
| | U | U | U | 56 | 140 | U | U | U |
| | 380 | 520 | 530 | 330 | 300 | 180 | 100 | 330 |
| | 430 | 750 | 4,700 | 3,700 | 4,900 | 2,600 | 570 | 8,700 |

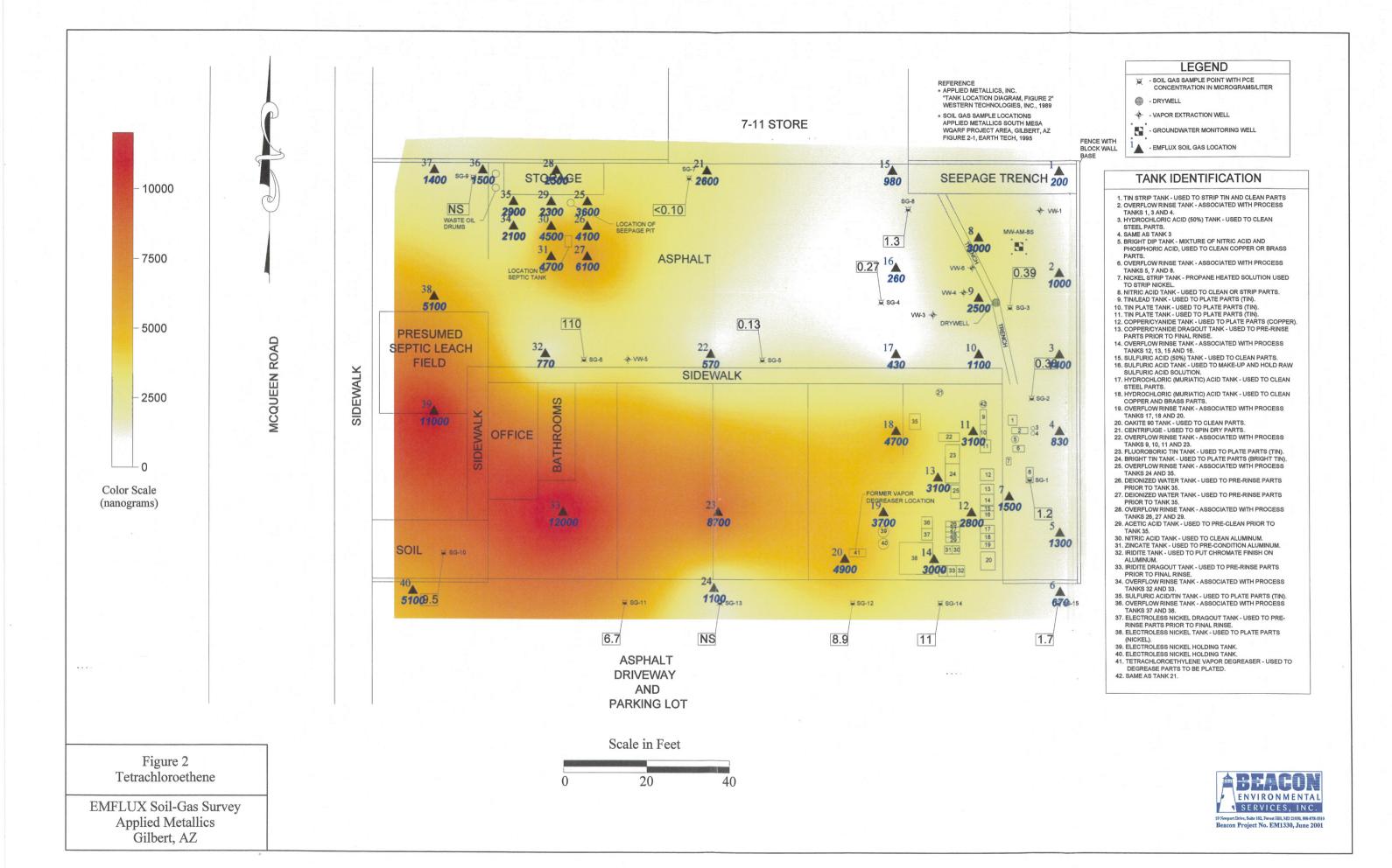
| SAMPLE NO. | 24 | 25 | 26 | 27 | 28 | 29 | 30 | .31 |
|--|----------------------------|-----------------------------|-------------------------------|------------------------------|-----------------------------------|-----------------------------|-------------------------------|--------------------|
| COMPOUNDS 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene | U U U 98 1,100 | U U U 270 3,600 | U 210 U 360 4,100 | U 92 U 390 6,100 | U . U . U . 220 2,500 | U U U 140 2,300 | U 160 U 500 4,500 | U U U 450 |

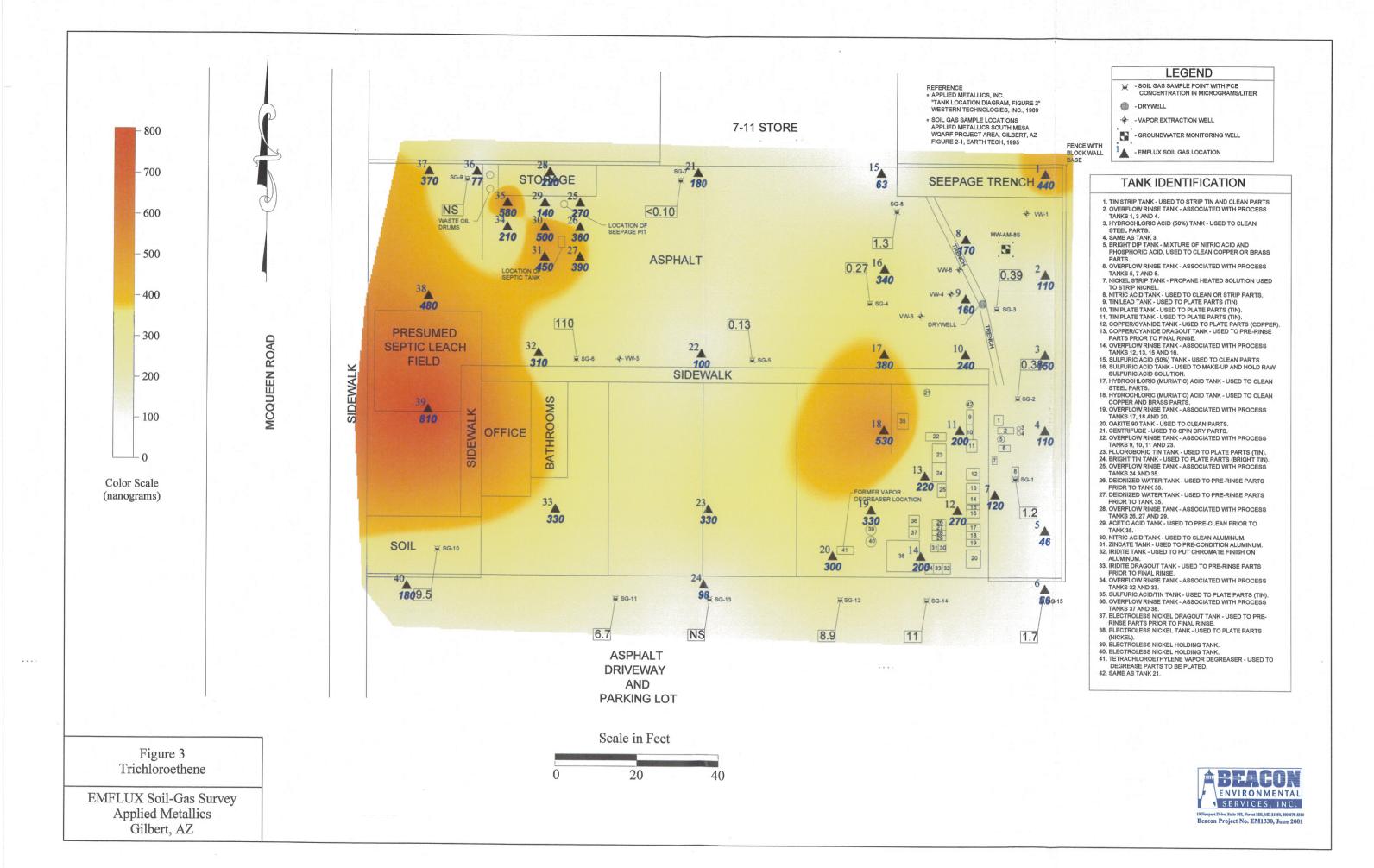
Table 1 (continued) Results in Nanograms (ng) Analysis Completed: June 4, 2001

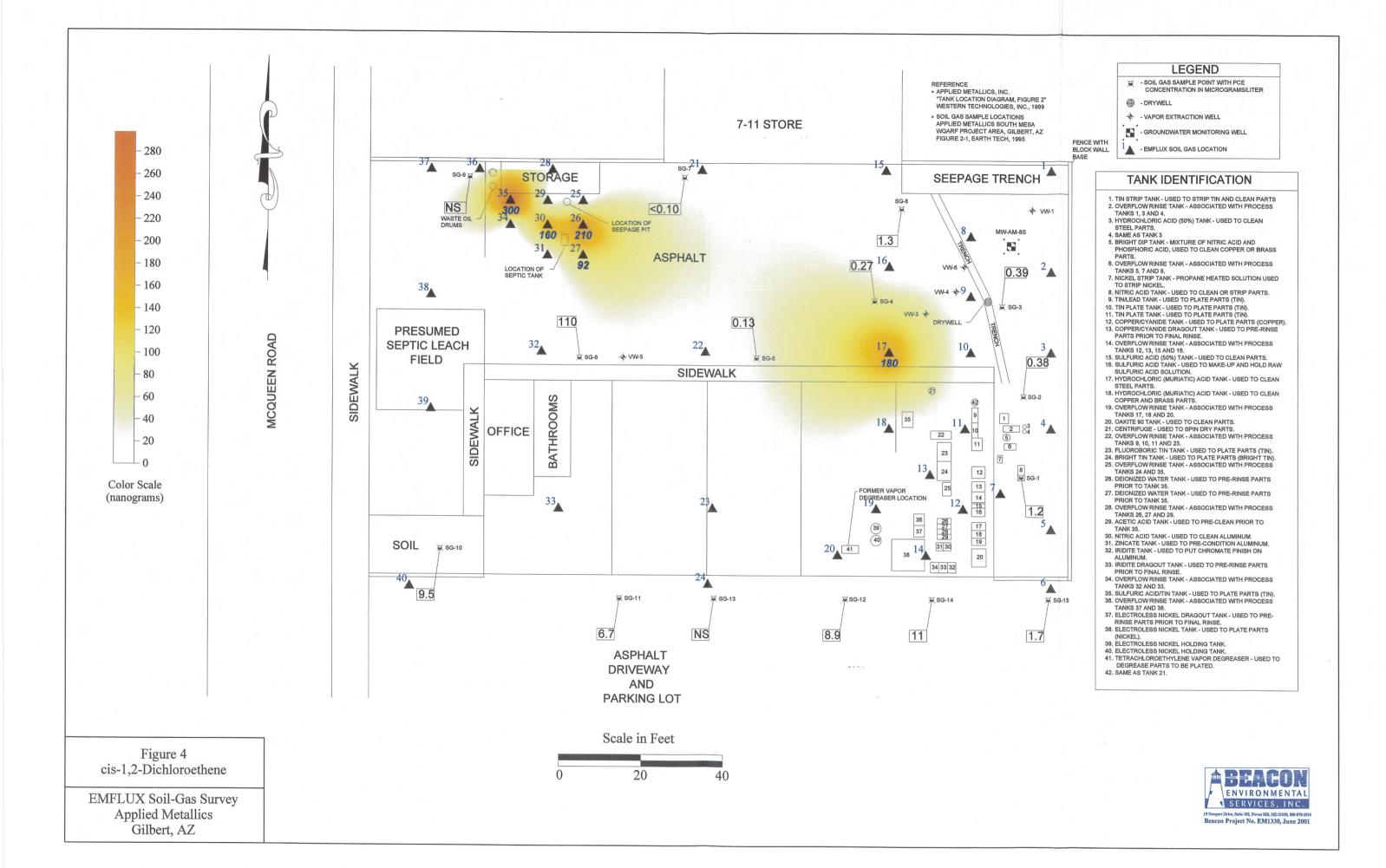
Applied Metallics Gilbert, AZ

| SAMPLE NO. | 32 | 32 D | 33 | 34 | 35 | 36 | 37 | 38 |
|---|---------------------------|----------------------------|------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|
| COMPOUNDS | | | | | | | 1 | |
| 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene | U U U 310 770 | U 39 U 340 660 | U U U 330 12,000 | U U U 210 2,100 | U 300 U 580 2,900 | 43 U U 77 1,500 | U U U 370 1,400 | U U U 480 5,100 |

| SAMPLE NO. | 39 | 40 | |
|---|------------------------------|-----------------------------|--|
| COMPOUNDS | | | |
| 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene | U U U 810 11,000 | U U U 180 5,100 | |







Attachment 1

Laboratory Report

Attachment 1

Applied Metallics Gilbert, AZ

Results in Nanograms (ng) Analysis Completed: June 4, 2001

In this analysis 44 EMFLUX samples were analyzed under the requirements of EPA Method 8021 using an SRI 8610 Gas Chromatograph equipped with a thermal desorber, a photoionization detector, and a dry electrolytic conductivity detector.

| SAMPLE NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------------------------|-----|-------|-------|-----|-------------|-----------|--------------|--------------|
| COMPOUNDS | | | | | | | | |
| 1,1-Dichloroethene | U | U | U | U | U | U | U | IJ |
| Methylene Chloride | U | U | U | U | U | IJ | IJ | IJ |
| trans-1,2-Dichloroethene | U | U | U | U | U | U | IJ | IJ |
| 1,1-Dichloroethane | U | U | U | U | IJ | U | IJ | IJ |
| cis-1,2-Dichloroethene | U | U | U | U | IJ | IJ | IJ | 0 |
| ,1,1-Trichloroethane | U | U | U | IJ | 11 | IJ | 0 | · U |
| Carbon Tetrachloride | U | U | IJ | U | 11 | U | U | U |
| ,2-Dichloroethane | U | U | IJ | U | IJ | _ | U | U |
| Crichloroethene | 440 | 110 | 150 | 110 | , | Ū. | U | U |
| etrachloroethene | 200 | 1,000 | 1,400 | 830 | 46 1,300 | 56 670 | 120 1,500 | 170 3,000 |

| CAMPI PINO | | | | | | | | |
|--------------------------|-------|-------|-------|-------|---------|--------------------------------|-----|-----|
| SAMPLE NO. | 9 | 10 | . 11 | 12 | 13 | 14 | 15 | 16 |
| COMPOUNDS | | | | | | ****************************** | | |
| 1,1-Dichloroethene | U | U | U | U | IJ | IJ | U | 7.7 |
| Methylene Chloride | U | U | U | U | IJ | U | | U |
| trans-1,2-Dichloroethene | U | U | U | U | 11 | | U | U |
| 1,1-Dichloroethane | U | IJ | IJ | U | T I | U | U | U |
| cis-1,2-Dichloroethene | U | II | IJ | U | U | U | U | U |
| 1,1,1-Trichloroethane | U | IJ | . II | | U | U | U | U |
| Carbon Tetrachloride | IJ | . U | II | U | U | 48 | U | U . |
| ,2-Dichloroethane | 11 | IJ | 0 | U | U | U | U | U |
| Trichloroethene | 0 | | U | U | Π . | U | U | U |
| Tetrachloroethene | 160 | 240 | 200 | 270 | 220 | 200 | 63 | 340 |
| cuacinoroemene | 2,500 | 1,100 | 3,100 | 2,800 | 3,100 | 3,000 | 980 | 260 |

Attachment 1 (continued) Applied Metallics Gilbert, AZ

Results in Nanograms (ng) Analysis Completed: June 4, 2001

| SAMPLE NO. | 17 | 17 D | 18 | 19 | 20 | 21 | 22 | 23 |
|--|-----------------------------------|-----------------------------------|-----------------------|----------------------------------|-----------------------------------|-----------------------|----------------------------|-----------------------|
| COMPOUNDS | | | | | | | | |
| 1,1-Dichloroethene Methylene Chloride trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene 1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane | U U U U 180 U U | U U U U 250 U U | U U U U U | U U U U U 56 U | U U U U U 140 U | U U U U U | U U U U U U | U U U U U |
| Trichloroethene Tetrachloroethene | 380 430 | 520 750 | 530 4,700 | 330 3,700 | U 300 4,900 | U 180 2,600 | U 100 570 | 330 8,700 |

| SAMPLE NO. | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|---|---------------------------------------|--------------------------------------|---|---|--|--|--|-----------------------|
| COMPOUNDS | | | | | | | | |
| 1,1-Dichloroethene Methylene Chloride trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene 1,1,1-Trichloroethane Carbon Tetrachloride ,2-Dichloroethane Crichloroethene | U U U U U U U 98 | U U U U U U U U | U U U U 210 U U U 360 | U U U 92 U U U 390 | U U U U U U U 220 | U U U U U U U 140 | U U U U 160 U U U | U U U U U |
| etrachloroethene | 1,100 | 3,600 | 4,100 | 6,100 | 2,500 | 2,300 | 500 4,500 | 450 4,700 |

Attachment 1 (continued) Applied Metallics Gilbert, AZ

Results in Nanograms (ng) Analysis Completed: June 4, 2001

| SAMPLE NO. | 32 | 32 D | 33 | 34 | 35 | 36 | 37 | 38 |
|---|------------|------------|---------------|-------|-------|-------|-------|-------|
| COMPOUNDS | | | | | | | | |
| 1,1-Dichloroethene Methylene Chloride | U | U | U | U | U | 43 | U | U |
| trans-1,2-Dichloroethene | U U | U | U | U | U | U | U | U |
| 1,1-Dichloroethane | U | U | U | U | U | U | U | U |
| cis-1,2-Dichloroethene 1,1,1-Trichloroethane | U U | 39 U | U | U | 300 | U | U | U |
| Carbon Tetrachloride | U | U | U U | U | U | U | U | U |
| l,2-Dichloroethane Γrichloroethene | U | U | U | U | U | U | U | U |
| Tetrachloroethene | 310 770 | 340 660 | 330 12,000 | 210 | 580 | 77 | 370 | 480 |
| | , 10 | 000 | 12,000 | 2,100 | 2,900 | 1,500 | 1,400 | 5,100 |

| SAMPLE NO. | 39 | 40 | Trip-1 | Trip-2 | |
|--------------------------|--------|-------|--------|--------|--|
| COMPOUNDS | | | | | |
| 1,1-Dichloroethene | U | U | U | IJ | |
| Methylene Chloride | U | U | IJ | 11 | |
| trans-1,2-Dichloroethene | U | U | U | 11 | |
| 1,1-Dichloroethane | U | U | II | II | |
| cis-1,2-Dichloroethene | U | U | II | 11 | |
| 1,1,1-Trichloroethane | U | IJ | 11 | 11 | |
| Carbon Tetrachloride | U | II | 11 | 11 | |
| ,2-Dichloroethane | U | IJ | II | II. | |
| Trichloroethene | 810 | 180 | 11 | 11 | |
| Tetrachloroethene | 11,000 | 5,100 | U | U | |

Attachment 2

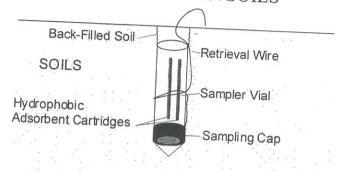
FIELD PROCEDURES FOR EMFLUX® SOIL-GAS SURVEYS

The following field procedures are routinely used during EMFLUX® Soil-Gas Surveys. Modifications can be and are incorporated from time to time in response to individual project requirements. In all instances, BEACON adheres to EPA-approved Quality Assurance and Quality Control practices.

- A. Field personnel carry EMFLUX® system components and support equipment to the site and deploy the EMFLUX® Collectors in a prearranged survey pattern. An EMFLUX® Collector consists of a glass vial containing hydrophobic adsorbent cartridges with a length of wire attached to the vial for retrieval. Although EMFLUX® Collectors require only one person for emplacement and retrieval, the specific number of field personnel required depends upon the scope and schedule of the project. Each Collector emplacement generally takes less than two minutes.
- B. For those sample locations covered with soils or vegetation, a field technician clears vegetation and debris exposing the ground surface. Using a hammer and a ¾"-diameter pointed metal stake, the technician creates a hole approximately three inches deep. For those locations covered with an asphalt or concrete cap, the field technician drills a 1½"-diameter hole through the cap to the soils beneath. (If necessary, the Collector can be sleeved with a ¾" i.d. copper pipe for either capped or uncapped locations).
- C. The technician then removes the solid plastic cap from an EMFLUX® Collector and replaces it with a Sampling Cap (a plastic cap with a hole covered by screen meshing). The technician inserts the Collector, with the Sampling Cap end facing down, into the hole (see attached figure). The Collector is then covered with either local soils for uncapped locations or, for capped locations, aluminum foil and a concrete patch. The Collector's location, time and date of emplacement, and other relevant information are recorded on the Field Deployment Form.
- D. One or more trip blanks are included as part of the quality-control procedures.
- E. Once all EMFLUX® Collectors have been deployed, field personnel schedule Collector recovery (typically 72 hours after emplacement) and depart, taking all no-longer-needed equipment and materials with them.
- F. Field personnel retrieve the Collectors at the end of the exposure period. At each location, a field technician withdraws the Collector from its hole, removes the retrieval wire, and wipes the outside of the vial clean using gauze cloth; following removal of the Sampling Cap, the threads of the vial are also cleaned. A solid plastic cap is screwed onto the vial and the sample location number is written on the label. The technician then records sample-point location, date, time, etc. on the Field Deployment Form.
- G. Sampling holes are refilled with soil, sand, or other suitable material. If Collectors have been installed through asphalt or concrete, the hole is filled to grade with a plug of cold patch or cement.
- H. Following retrieval, field personnel ship or carry the EMFLUX® Field Kit to a specified analytical laboratory.

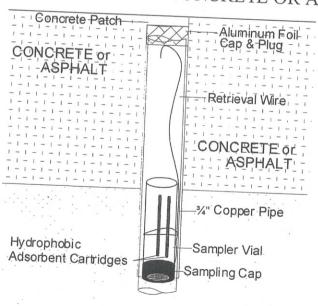
EMFLUX® COLLECTOR

DEPLOYMENT IN SOILS



SOILS

DEPLOYMENT THROUGH CONCRETE OR ASPHALT



SOILS

Attachment 3

Field Deployment Report

| a | |
|---|--|
| 9 | |
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| | |

| BEACON ENVIRONMENTAL SERVICES, INC. EMFLUX® SOIL-GAS SURVEY FIELD DEPLOYMENT REPORT | CLIENT: LAW Engineering & Environmental Services SITE: Applied Metallics site, Gilbert, AZ | INDIVIDUAL SAMPLE INFORMATION | RETRIEVAL DATE: 05/20/61 | FIELD NOTES (e.g., asphalt/concrete covering, description of sample location contrided/iii) | Condition) | | | | | | | | | | | | | | |
|---|--|-------------------------------|--------------------------|--|------------|-------|---------|--------|-------|------|-------|-------|--------|------|------|------|-------|------|-------|
| BI | CLIENT: LAW E | | 125/01 | TIME | Retrieved | 240 | 0 \$ 0. | - | 5 hc1 | 150) | 1226 | 17 55 | 1 95 1 | 2 | 9011 | 8501 | 1653 | 649 | 16 45 |
| | : EM 1330 | | EMPLACEMENT DATE: \$ | T | Emplaced | 14.55 | 1557 | | 1620 | (09) | 154 B | 18.7 | 7671 | 1603 | 1567 | 0026 | 50,92 | 1007 | 1001 |
| | PROJECT #: EM 1330 | | EMPLACEN | SAMPLE NUMBER | | N./ | ~(~ | \ \ | 4 | R | 10 | | B | a | 0/ | 11 | 7). | . 13 | 7 |

| FIELD NOTES (e.g., asphalt/concrete covering, description of sample location, cartridge/vial condition) | | | | | 0 | | | | | | | | | | | | | |
|--|-----------|-------|------|------|------|------|------|-----|------|------|-------|-----|------|---------|------|------|------|--|
| TIME | Retrieved | 0 111 | 113 | 711 | 一大大田 | 1284 | 1267 | 127 | 1(25 | 1240 | 1230 | en | 1141 | 751: | = 33 | 1(5) | . 53 | |
| T | Emplaced | 8081 | 1608 | 1606 | 1610 |) = | 7/01 | 63 | W 15 | [6] | 15 A4 | 979 | 82 9 | 16 30 1 | 1635 | 129 | 623 | |
| SAMPLE | | 2 | 91 | 17 | 9 | (9 | 2 | 21 | 22 | 23 | 24 | r.1 | 3% | 207 | þ | 20 | R | |

| | FIELD NOTES (e.g., asphalt/concrete covering, description of sample location, cartridge/vial condition) | | | | | | | | | | | | | | | |
|------|---|-----------|------|------|---------|--|------|-------|------|-------|------|------|---|--|--|--|
| | TIME | Retrieved | - 38 | 1/28 | 1244 | 200 | 1205 | 1209 | 5/2 | \$12: | 1221 | 1337 | | | | |
| | | Emplaced | 1635 | 629 | \$ 1618 | The state of the s | 800 | 16 37 | 1629 | 3 | A C | 10 | · | | | |
| 7.47 | SAMPLE | | 2 | 32 | | 32 | 125 | m | 37 | 24, | 3 | 40 | | | | |

Attachment 4

LABORATORY PROCEDURES FOR EMFLUX® ADSORBENT CARTRIDGES

Following are laboratory procedures used with the EMFLUX® Soil-Gas System, a screening technology for expedited site investigation. After exposure, EMFLUX® cartridges are analyzed using U.S. EPA Method 8021 as described in the Solid Waste Manual (SW-846) for screening purposes. This method, which is modified to accommodate thermal desorption screening of the adsorbent cartridges, uses a gas chromatograph equipped with a capillary column and a photo ionization detector (PID) in series with a dry electrolytic conductivity detector (DELCD). This procedure is summarized below:

- A. EMFLUX® cartridges are placed in the thermal desorbtion chamber, where they are purged with carrier gas then desorbed into the capillary column. The capillary column separates the sample into single component analytes. Analytes in the carrier gas are detected with a PID then a DELCD.
- B. The laboratory uses a 105-m, 0.53-mm-i.d., 3 μ m-film-thickness MXT-624 capillary column for separation during analysis.
- C. The PID and DELCD are set on high gain; ultra zero grade dry air is used in the DELCD.
- D. Lab personnel conduct internal control blank and internal control verification analyses daily to ensure that the system is contaminant free and properly calibrated. The system is calibrated using the external standard calibration procedure to at least three different concentration levels for each compound targeted, with the lowest concentration level at or near the method detection limit.
- E. The instrumentation used for these analyses is an SRI 8610 Gas Chromatograph, connected to a PID in series with a DELCD and equipped with a manually actuated thermal desorber.

Attachment 5

Chain-of-Custody Form

BEACON ENVIRONMENTAL SERVICES, INC. CHAIN-OF-CUSTODY FORM PROJECT NUMBER: EM 1330 SITE: Applied Metallics site, Gilbert, AZ CLIENT: LAW Engineering & Environmental Services TARGET COMPOUNDS: EMFLUX EM 1330 Chlorinated Compound List Sample Lab ID No. Remarks (only necessary if problem or discrepancy) Number (for lab use only) Condition of sample or vial Date Time Init. 9/30/01 1035 Pc 90 2, 7 7 RELINQUISHED BY DATE TIME RECEIVED BY Signature **Printed Name** Signature **Printed Name** Ryan Schneider 5.16.01 2000 Fedex Fedex Fedex 51704 TATRILK 5 30 01 1800 5.31-01 1300 SteveThornle

Shipment to site: Custody Seal # 000 29857

Shipment to Laboratory Custody Seal # 29878

I.O.R.S

BEACON ENVIRONMENTAL SERVICES, INC. CHAIN-OF-CUSTODY FORM

| THOSECI | MOMBEK: | LIVI | 1330 | | |
|---------|---------|------|------|--|--|
| | | | | | |

SITE: Applied Metallics site, Gilbert, AZ

CLIENT: LAW Engineering & Environmental Services

TARGET COMPOUNDS: EMFLUX EM 1330 Chlorinated Compound List

| Sample | Lab II | | Remark | s (only necessary if pro | hlem or discre | nonov) | |
|----------------|------------|-----------|-----------|--------------------------|----------------|--------|-------|
| Number | (for lab u | ise only) | Condition | of sample or vial | Date | Time | T 1 |
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| 34. | | | | | | 1244 | 18 |
| 25. | | | | | | 1201 | DC |
| 29 5 · | | | | | | 1205 | PC |
| 37 | | | | | | 1209 | PC |
| 34 | | | | | | 1215 | 21 |
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| Signature | Printe | d Name | | | TIME | | EIVED BY |
| Rom School | | chneider | 5.16 | | 2000 | Signature | Printed Name |
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| | | | | | | | Hereview |
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Shipment to site: Custody Seal # 000 29857

Shipment to Laboratory Custody Seal # 52989

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APPENDIX F

BEACON ENVIRONMENTAL REPORT DATED JULY 30, 2002

BEACON Report No. EM1330B

EMFLUX® Passive Soil-Gas Survey

APPLIED METALLICS SITE GILBERT, AZ

Prepared for

LAW Engineering & Environmental Services 4634 South 36th Place Phoenix, AZ 85040

by

Beacon Environmental Services, Inc. 19 Newport Drive Suite 102 Forest Hill, MD 21050

July 30, 2002

Applying Results from Soil-Gas Surveys

The utility of soil-gas surveys is directly proportional to their accuracy in reflecting and representing changes in the subsurface concentrations of source compounds. Passive soil-gas survey results are the mass collected from the vapor-phase emanating from the source. The vapor-phase is merely a fractional trace of the source, so, as a matter of convenience, the units used in reporting detection values from EMFLUX® surveys are smaller than those employed for source-compound concentrations.

The critical fact is that, whatever the relative concentrations of source and associated soil gas, best results are realized when the ratio of soil-gas measurements to actual subsurface concentrations remains as close to constant as the real world permits. It is the reliability and consistency of this ratio, not the particular units of mass (e.g., nanograms) that determine usefulness. Thus, BEACON emphasizes the necessity of conducting — at minimum — follow-on intrusive sampling at one or two points which show relatively high EMFLUX® values to obtain corresponding concentrations of soil and ground-water contaminants. These correspondent values furnish the basis for approximating the required ratio. Once that ratio is established, it can be used in conjunction with EMFLUX® measurements (regardless of the units adopted) to estimate subsurface contaminant concentrations across the survey field. It is important to keep in mind, however, that specific conditions at individual sample points, including soil porosity and permeability, depth to contamination, and perched ground water, can have significant impact on soil-gas measurements at those locations.

When EMFLUX® Surveys are handled in this way, the data provide information that can yield substantial savings in drilling costs and in time. They furnish, among other things, a checklist of compounds expected at each survey location and help to determine how and where drilling budgets can most effectively be spent.

Table 1

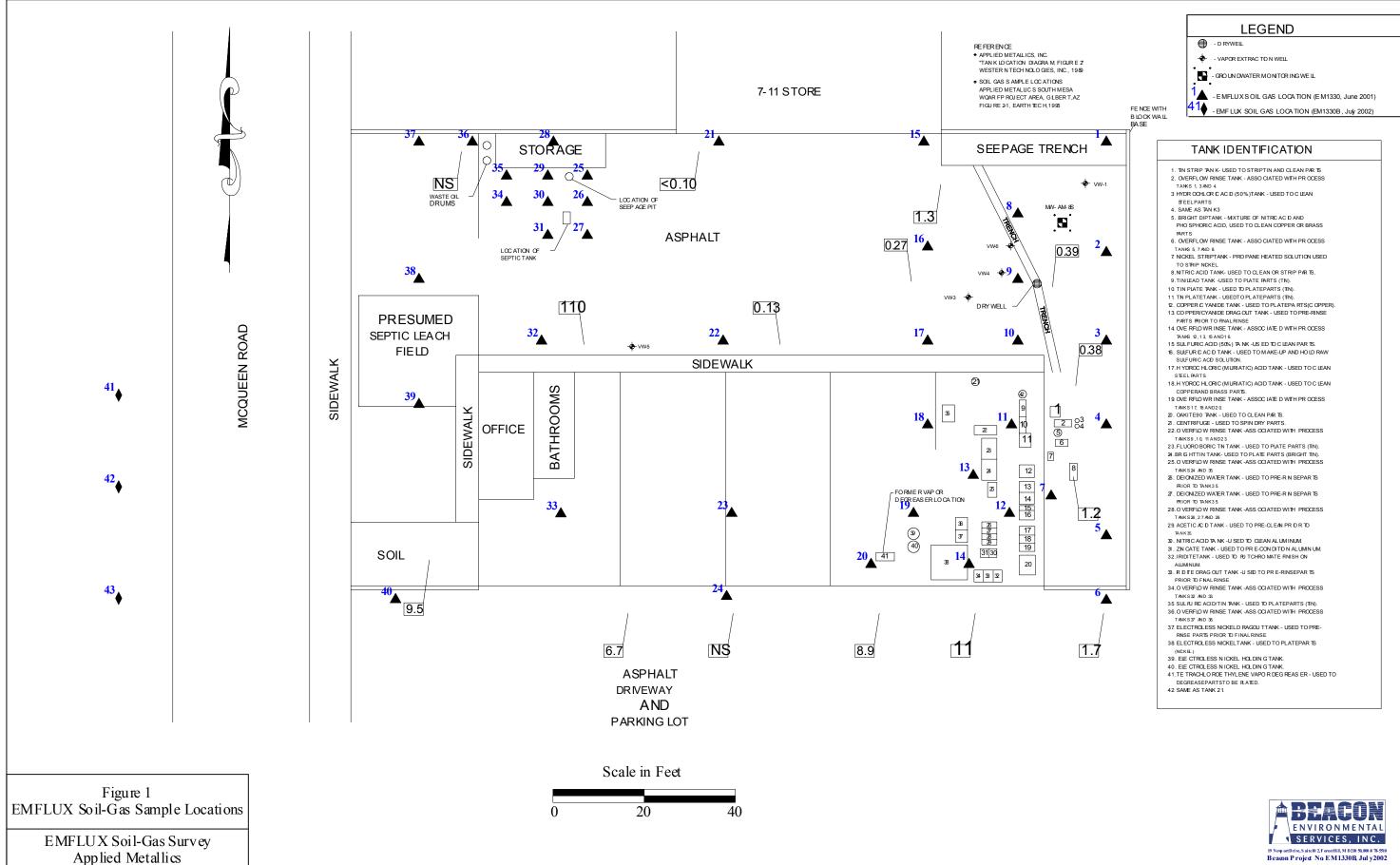
EMFLUX Passive Soil-Gas Survey
Applied Metallics
Gilbert, AZ

Results in Nanograms (ng)
Analysis Completed: July 15, 2002

| SAMPLE NO. | 41 | 41-D | 42 | 42-D | 43 T | TRIP-1 |
|--------------------------|----|------|----|------|------|--------|
| COMPOUNDS | | | | | | |
| 1,1-Dichloroethene | U | U | U | U | U | U |
| Methylene Chloride | U | U | U | U | U | U |
| trans-1,2-Dichloroethene | U | U | U | U | U | U |
| 1,1-Dichloroethane | U | U | U | U | U | U |
| cis-1,2-Dichloroethene | U | U | U | U | U | U |
| Chloroform | U | U | U | U | U | U |
| 1,1,1-Trichloroethane | U | U | U | U | U | U |
| Carbon Tetrachloride | U | U | U | U | U | U |
| 1,2-Dichloroethane | U | U | U | U | U | U |
| Trichloroethene | U | U | U | U | U | U |
| 1,1,2-Trichloroethane | U | U | U | U | U | U |
| Tetrachloroethene | 90 | 130 | 33 | 36 | 26 | U |

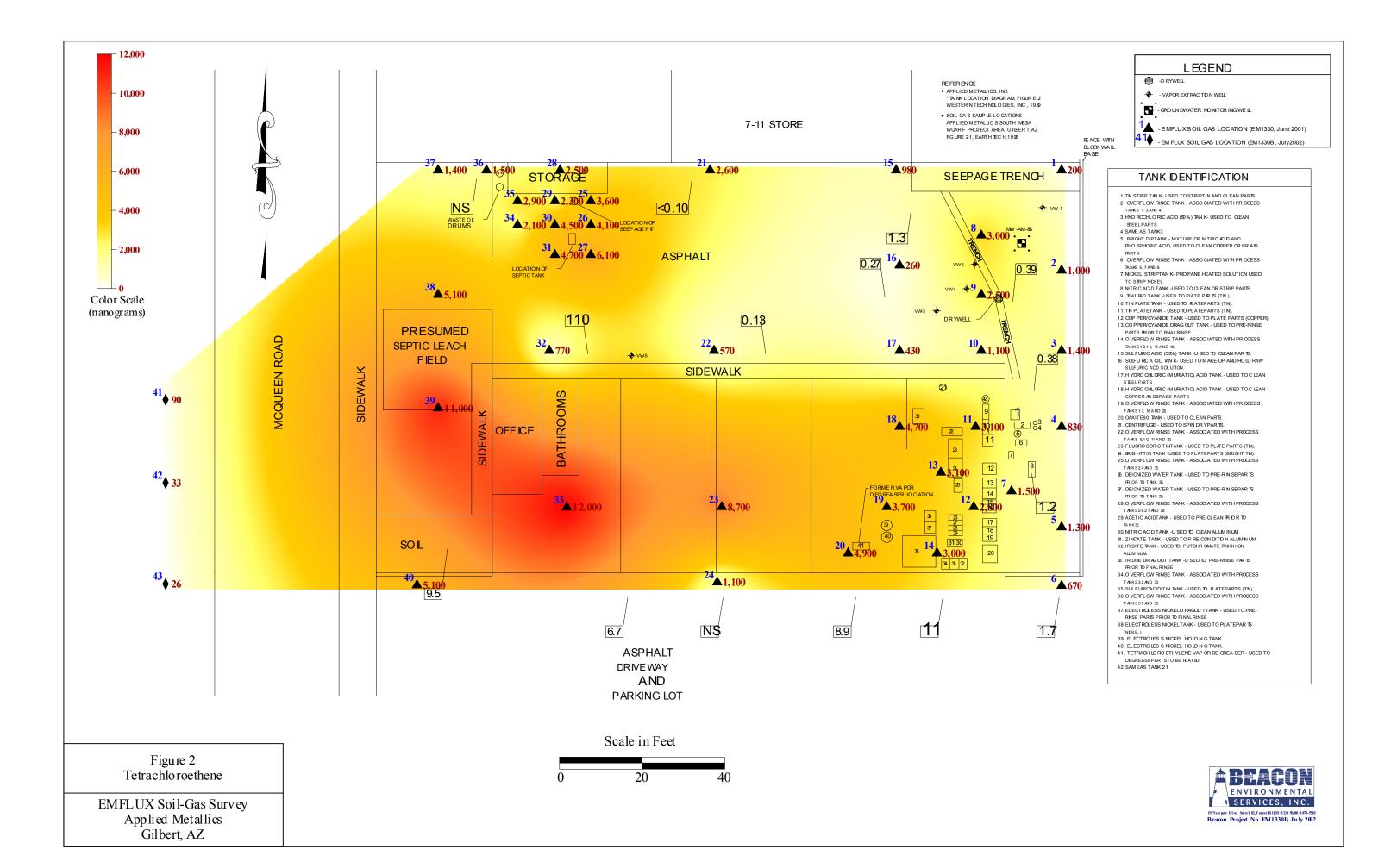
Reported Quantitation Level = 25 nanograms

U = Below Reported Quantitation Level



Gilbert, AZ







APPENDIX G

TRANSWEST GEOCHEM, INC.
SOIL, GROUNDWATER, AND SOIL VAPOR SAMPLE
ANALYTICAL REPORTS





TGI ID: 0108149

September 24, 2001

Law Engineering Inc. 4634 S. 36th Pl. Phoenix, AZ. 85040

Attention:

Jim Clarke

Project Name/No:

S. Mesa WQARF/70211-0-0150-2-2.10

Samples Received:

8/20-28/2001

Matrix:

Soil/Vapor/Aqueous

Mobile Lab No .:

TGI 05

Transwest Geochem, Inc. received and analyzed samples on the above date(s). The samples were analyzed by EPA Method 8021B-Modified, a field screening technique. The results of these analyses and the quality control data are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (602)437-0330.

Sincerely,

Michael E. Barber

Laboratory Director

Machael & Barbar

ADHS License No.:

AZM133/AZ0133

Client Name:

Law Engineering Inc.

Project Name/No.: Samples Received:

S. Mesa WQARF/70211-0-0150-2-2.10 8/20-28/2001



| | | | EPA Met | EPA Method 8021B-Modified | Aodified | | | | |
|--------------------------|-----------------|-----------|------------|---------------------------|----------|---------|------------|---------|------------|
| | Lab ID | 0108149-1 | 149-1 | 0108149-3 | 49-3 | 0108 | 0108149-5 | 0108 | 0108149-7 |
| | Sample ID | LB-1-8 | LB-1-SG-10 | LB-1-SG-20 | 3G-20 | LB-1-8 | LB-1-SG-30 | LB-1-8 | LB-1-SG-40 |
| | Date Analyzed | 8/21/01 | /01 | 8/21/01 | /01 | 8/21/01 | 1/01 | 8/21/01 | /01 |
| | Dilution Factor | 40 | 5 | 1 | 10 | 2 | 20 | 4, | 5 |
| | Matrix | Vapor | oor | Vapor | oor | Vapor | oor | Vapor | oor |
| ANALYTE | Units | mg/m3 | ppmv | mg/m3 | hmdd | mg/m3 | ppmv | mg/m3 | ppmv |
| trans-1,2-Dichloroethene | ethene | <5.0 | <1.26 | <10 | <2.52 | <20 | <5.04 | <5.0 | <1.26 |
| cis-1,2-Dichloroethene | nene | <5.0 | <1.26 | <10 | <2.52 | <20 | <5.04 | <5.0 | <1.26 |
| Trichloroethene | | <5.0 | <0.93 | <10 | <1.87 | <20 | <3.73 | <5.0 | <0.93 |
| Tetrachloroethene | | 31 | 4.57 | 89 | 13.11 | 480 | 70.70 | 27 | 3.98 |
| Surrogate (70-130)- % | % -(| %56 | % | %96 | % | 94% | % | 94% | % |

| | | | EPA Me | EPA Method 8021B-Modified | fodified | | | | |
|--------------------------|-----------------|---------|------------|---------------------------|----------|---------|------------|---------|------------|
| | Lab ID | 0108 | 0108149-9 | 0108149-11 | 49-11 | 01081 | 0108149-13 | 01081 | 0108149-14 |
| | Sample ID | LB-1-8 | LB-1-SG-50 | LB-1-SG-60 | 92-90 | LB-1-8 | LB-1-SG-70 | LB-1-8 | _B-1-SG-80 |
| , mad | Date Analyzed | 8/21/01 | 1/01 | 8/21/01 | /01 | 8/21/01 | /01 | 8/21/01 | /01 |
| <u> </u> | Dilution Factor | | | 1 | | _ | | _ | |
| , s | Matrix | Vapor | por | Vapor | or | Vapor | oor | Vapor | oor |
| ANALYTE | Units | mg/m3 | hmdd | mg/m3 | ppmv | mg/m3 | ppmv | mg/m3 | ppmv |
| trans-1,2-Dichloroethene | thene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| cis-1,2-Dichloroethene | ene | ×1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| Trichloroethene | | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 |
| Tetrachloroethene | | 310 D | 45.66 | 11 | 1.62 | 1.2 | 0.18 | 1.5 | 0.22 |
| Surrogate (70-130)- % | %- | %96 | %! | %26 | % | %68 | % | %96 | % |

Client Name:

Law Engineering Inc.

Project Name/No.: Samples Received:

8/20-28/2001

S. Mesa WQARF/70211-0-0150-2-2.10



| | | | EPA Mei | EPA Method 8021B-Modified | Aodified | | | | |
|--------------------------|-----------------|-------|------------|---------------------------|-------------|------------|-------------|---------|------------|
| | Lab ID | 01081 | 0108149-15 | 01081 | 0108149-16 | 0108149-17 | 49-17 | 01081 | 0108149-24 |
| | Sample ID | LB-1- | LB-1-SG-90 | LB-1-S | LB-1-SG-100 | LB-1-S | LB-1-SG-110 | LB-2-{ | LB-2-SG-10 |
| | Date Analyzed | 8/2. | 8/21/01 | 8/21/01 | /01 | 8/21/01 | 1/01 | 8/25/01 | 5/01 |
| | Dilution Factor | | 1 | | | | | - | |
| | Matrix | Va | Vapor | Vapor | oor | Vapor | DOL | Vapor | por |
| ANALYTE | Units | mg/m3 | hmdd | mg/m3 | bpmv | mg/m3 | bpmv | mg/m3 | hmdd |
| trans-1,2-Dichloroethene | ethene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| cis-1,2-Dichloroethene | hene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| Trichloroethene | | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 |
| Tetrachloroethene | 0 | <1.0 | <0.15 | 4.0 | 0.59 | 3.5 | 0.52 | <1.0 | <0.15 |
| Surrogate (70-130)- % | % -((| 92 | 92% | %96 | % | %96 | % | %96 | %: |

| | | | EPA Me | EPA Method 8021B-Modified | Modified | | | | |
|--------------------------|-----------------|---------|------------|---------------------------|-------------|---------|------------|---------|------------|
| | Lab ID | 01081 | 0108149-26 | 01081 | 0108149-28 | 01081 | 0108149-30 | 01081 | 0108149-32 |
| | Sample ID | LB-2- | .B-2-SG-20 | LB-2-{ | _B-2-SG-30 | LB-2-{ | _B-2-SG-40 | LB-2- | LB-2-SG-50 |
| | Date Analyzed | 8/25/01 | 3/01 | 8/25/01 | 1/01 | 8/25/01 | 5/01 | 8/25/01 | 5/01 |
| | Dilution Factor | | | | | | | | _ |
| | Matrix | \alpha | Vapor | Vapor | 30 r | Vapor | por | Vapor | por |
| ANALYTE | Units | mg/m3 | ppmv | mg/m3 | bpmv | mg/m3 | bbmv | mg/m3 | bpmv |
| trans-1,2-Dichloroethene | oethene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | . <0.25 | <1.0 | <0.25 |
| cis-1,2-Dichloroethene | thene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | 1.0 | 0.25 |
| Trichloroethene | | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 |
| Tetrachloroethene | Ð | 1.6 | 0.24 | 18 | 2.65 | <1.0 | <0.15 | 18 | 2.65 |
| Surrogate (70-130)- % | % -(0 | %56 | % | %56 | % | %E6 | % | %86 | % |

Project Name/No.: Samples Received: Client Name:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10 8/20-28/2001



| | | | EPA Met | EPA Method 8021B-Modified | lodified | | | | |
|--------------------------|-----------------|------------|---------|---------------------------|----------|------------|-------|------------|------------|
| | Lab ID | 0108149-34 | 49-34 | 0108149-36 | 19-36 | 0108149-37 | 49-37 | 0108149-42 | 49-42 |
| | Sample ID | LB-2-SG-60 | 3G-60 | LB-2-SG-70 | :e-70 | LB-2-SG-80 | 3G-80 | S-E-B-3-6 | LB-3-SG-10 |
| | Date Analyzed | 8/25/01 | 1/01 | 8/25/01 | /01 | 8/25/01 | /01 | 8/28/01 | /01 |
| | Dilution Factor | 1 | | 1 | | _ | | | |
| | Matrix | Vapor | oor | Vapor | or | Vapor | oor . | Vapor | oor |
| ANALYTE | Units | mg/m3 | hmqq | mg/m3 | ppmv | mg/m3 | ppmv | mg/m3 | ppmv |
| trans-1,2-Dichloroethene | ethene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| cis-1,2-Dichloroethene | hene | <1.0 | <0.25 | <1.0 | <0.25 | ×4.0 | <0.25 | <1.0 | <0.25 |
| Trichloroethene | | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 |
| Tetrachloroethene | d) | <1.0 | <0.15 | <1.0 | <0.15 | <1.0 | <0.15 | <1.0 | <0.15 |
| Surrogate (70-130)- % | % -((| %86 | % | 109% | % | 111% | % | 105 | 109% |

| | | | EPA Me | EPA Method 8021B-Modified | Modified | | | | |
|--------------------------|-----------------|------------|------------|----------------------------------|------------|-------|------------|--------------|------------|
| | Lab ID | 0108149-44 | 49-44 | 01081 | 0108149-46 | 01081 | 0108149-48 | 01081 | 0108149-50 |
| | Sample ID | LB-3-6 | .B-3-SG-20 | LB-2-{ | LB-2-SG-30 | LB-3- | _B-3-SG-40 | F-B-3- | LB-3-SG-50 |
| | Date Analyzed | 8/28/01 | 1/01 | 8/28 | 8/28/01 | 8/28 | 8/28/01 | 8/28/01 | 3/01 |
| | Dilution Factor | | | | | | _ | • | |
| | Matrix | Vapor | oor | Vai | Vapor | Ν | Vapor | Vapor | por |
| ANALYTE | Units | mg/m3 | ppmv | mg/m3 | hpmv | mg/m3 | bpmv | mg/m3 | ppmv |
| trans-1,2-Dichloroethene | ethene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| cis-1,2-Dichloroethene | hene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| Trichloroethene | | 41.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 |
| Tetrachloroethene | 0 | <1.0 | <0.15 | 1.0 | 0.15 | <1.0 | <0.15 | 1.6 | 0.24 |
| Surrogate (70-130)- % | %-(C | 110 | 110% | 11(| 110% | 10 | 109% | + | 113% |

Client Name:

Law Engineering Inc.

Project Name/No.: Samples Received:

S. Mesa WQARF/70211-0-0150-2-2.10

8/20-28/2001



| Lab ID 0108149-52 0108149-54 Sample ID LB-3-SG-60 LB-2-SG-70 Date Analyzed 8/29/01 8/29/01 Matrix √apor √apor ANALYTE Units mg/m3 ppmv mg/m3 ppm trans-1,2-Dichloroethene <1.0 | | EPA M | EPA Method 8021B-Modified | Modified | | |
|--|--|-----------------|---------------------------|----------|-------|-------|
| e ID LB-3-SG-60 LB-2-SG-nalyzed nalyzed 8/29/01 8/29/01 n Factor 1 1 wg/m3 ppmv mg/m3 <1.0 | A011-001-001-001-001-001-001-001-001-001 | Lab ID | 01081 | 49-52 | 01081 | 49-54 |
| nalyzed 8/29/01 8/29/01 n Factor 1 Napor Vapor mg/m3 ppmv mg/m3 c1.0 c0.25 c1.0 c1.0 c0.15 c1.0 c1.0 c1.0 c1.0 c1.0 c1.0 c1.0 c1.0 | | Sample ID | LB-3-6 | SG-60 | LB-2- | SG-70 |
| n Factor 1 1 Vapor Vapor Vapor mg/m3 ppmv mg/m3 <1.0 | | Date Analyzed | 8/26 | 3/01 | 8/26 | 9/01 |
| Vapor Vapor Vapor mg/m3 ppmv mg/m3 <1.0 <0.25 <1.0 <1.0 <0.25 <1.0 <1.0 <0.19 <1.0 <1.0 <0.15 <1.0 <1.0 <0.15 <1.0 | | Dilution Factor | | | | |
| mg/m3 ppmv mg/m3 <1.0 <0.25 <1.0 <1.0 <0.25 <1.0 <1.0 <0.19 <1.0 <1.0 <0.15 <1.0 113% 113% 110% | | Matrix | | por | Va | por |
| <1.0 <0.25 <1.0 <1.0 <0.25 <1.0 <1.0 <0.19 <1.0 <1.0 <0.15 <1.0 113% 110% | ANALYTE | Units | mg/m3 | hpmv | mg/m3 | hmy |
| <1.0 | trans-1,2-Dichlor | oethene | <1.0 | <0.25 | <1.0 | <0.25 |
| <1.0 | cis-1,2-Dichloroe | thene | <1.0 | <0.25 | <1.0 | <0.25 |
| <1.0 | Trichloroethene | | <1.0 | <0.19 | <1.0 | <0.19 |
| 113% | Tetrachloroethen | Ð | <1.0 | <0.15 | <1.0 | <0.15 |
| | Surrogate (70-13 | % -(0 | 77 | 3% | 110 | %0 |

Notes:

The vapor analysis performed by Transwest Geochem, Inc. is a screening technique based on a modified EPA method. This data is not to be used in compliance situations.

Samples Received: Project Name/No.: Client Name:

S. Mesa WQARF/70211-0-0150-2-2.10 Law Engineering Inc. 8/20-28/2001



ADHS Cert. No.: AZM133/AZ0133 TGI ID No.: 0108149

| TGI ID/ | CLIENT | | | | | ш | EPA 8021B-Modified/Solvent Screen | Modified/ | Solvent Sci | reen | | |
|-----------------------|-----------|--------|-------|-----------|----------|----------|-----------------------------------|-----------|-------------|-------|--------|---------|
| SAMPLE | Q | | | Date | Date | | trans-1,2 | cis-1,2 | | | Sur. | 70-130% |
| NUMBER | | Matrix | Units | Extracted | Analyzed | <u>=</u> | DCE | DCE | TCE | PCE | Rec. % | Flag |
| 0108149 -02 | LB-1-S-10 | Soil | mg/kg | 8/20/01 | 8/22/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 104 | |
| 0108149 -04 | LB-1-S-20 | Soil | mg/kg | 8/20/01 | 8/22/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 101 | |
| 0108149 -06 LB-1-S-30 | LB-1-S-30 | Soil | mg/kg | 8/20/01 | 8/23/01 | 1 | <0.10 | <0.10 | <0.10 | <0.10 | 113 | |
| 0108149 -08 LB-1-S-40 | LB-1-S-40 | Soil | mg/kg | 8/20/01 | 8/23/01 | 1 | <0.10 | <0.10 | <0.10 | <0.10 | 106 | |
| 0108149 -10 | LB-1-S-50 | Soil | mg/kg | 8/20/01 | 8/23/01 | 1 | <0.10 | <0.10 | <0.10 | <0.10 | 115 | |
| 0108149 -12 LB-1-S-60 | LB-1-S-60 | Soil | mg/kg | 8/21/01 | 8/23/01 | 1 | <0.10 | <0.10 | <0.10 | <0.10 | 116 | |
| 0108149 -25 | LB-2-S-10 | Soil | mg/kg | 8/25/01 | 8/25/01 | 1 | <0.10 | <0.10 | <0.10 | <0.10 | 66 | |
| 0108149 -27 | LB-2-S-20 | Soil | mg/kg | 8/25/01 | 8/25/01 | 1 | <0.10 | <0.10 | <0.10 | <0.10 | 66 | í |
| 0108149 -29 | LB-2-S-30 | Soil | mg/kg | 8/25/01 | 8/25/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 108 | |
| 0108149 -31 LB-2-S-40 | LB-2-S-40 | Soil | mg/kg | 8/25/01 | 8/25/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 97 | |
| 0108149 -33 LB-2-S-50 | LB-2-S-50 | Soil | mg/kg | 8/25/01 | 8/25/01 | 1 | <0.10 | <0.10 | <0.10 | <0.10 | 108 | |
| 0108149 -35 LB-2-S-60 | LB-2-S-60 | Soil | mg/kg | 8/25/01 | 8/25/01 | 1 | <0.10 | <0.10 | <0.10 | <0.10 | 112 | |
| 0108149 -43 LB-3-S-10 | LB-3-S-10 | Soil | mg/kg | 8/28/01 | 8/29/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 116 | |
| 0108149 -45 LB-3-S-20 | LB-3-S-20 | Soil | mg/kg | 8/28/01 | 8/29/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 108 | |
| 0108149 -47 LB-3-S-30 | LB-3-S-30 | Soil | mg/kg | 8/28/01 | 8/29/01 | 1 | <0.10 | <0.10 | <0.10 | <0.10 | 111 | |
| 0108149 -49 | LB-3-S-40 | Soil | mg/kg | 8/28/01 | 8/29/01 | 1 | <0.10 | <0.10 | <0.10 | <0.10 | 119 | |
| 0108149 -51 | LB-3-S-50 | Soil | mg/kg | 8/28/01 | 8/29/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 116 | |
| 0108149 -53 | LB-3-S-60 | Soil | mg/kg | 8/28/01 | 8/29/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 116 | |

Confidential

Client Name:

Project Name/No.:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10

8/20-28/2001



TGI ID No.: 0108149 ADHS Cert. No.: AZM133/AZ0133

| TGI ID/ | CLIENT | | | | | EPA 8 | EPA 8021B-Modified/Solvent Screen | fied/Solve | nt Screen | | |
|------------------------|-------------------------|--------|-------|----------|----------|-------------|-----------------------------------|------------|-----------|--------|---------|
| SAMPLE | <u>Q</u> | | | Date | | trans-1,2 | cis-1,2 | | | Sur. | 70-130% |
| NUMBER | | Matrix | Units | Analyzed | ä | DCE | DCE | TCE | PCE | Rec. % | Flag |
| 0108149 -18 | LB-1-W-130 | Aq | ng/L | 8/22/01 | _ | <1.0 | 10 | 2.1 | 29 D | 74 | |
| 0108149 -19 LB-1-W-1 | LB-1-W-140 | Aq | ug/L | 8/22/01 | - | √ 0.1° | <1.0 | <1.0 | <1.0 | 117 | |
| 0108149 -20 LB-1-W-188 | LB-1-W-188 | Aq | ng/L | 8/22/01 | - | <.10 | 3.1 | <1.0 | 4.7 | 118 | |
| 0108149 -21 | LB-1-W-205 | Aq | ng/L | 8/22/01 | - | <1.0 | 3.0 | د 1.0 | 4.6 | 75 | |
| 0108149 -22 | LB-1-W-222 | Aq | ng/L | 8/22/01 | - | <1.0 | <1.0 | <1.0 | <1.0 | 86 | |
| 0108149 -23 | LB-1-W-240 | Aq | ug/L | 8/22/01 | - | ۲.0 د۲.0 | <1.0 | <1.0 | <1.0 | 25 | |
| 0108149 -38 | LB-2-GW-130 | Aq | ng/L | 8/26/01 | - | <1.0 | 27 | 7.3 | 12 | 113 | |
| 0108149 -39 | LB-2-GW-150 | Aq | ng/L | 8/26/01 | - | 4.0 | <1.0 | 41.0 | 9.6 | 113 | |
| 0108149 -40 | LB-2-GW-170 | Aq | T/6n | 8/26/01 | - | <1.0 | 42 | 8.5 | 88 D | 108 | |
| 0108149 -41 | 0108149 -41 LB-2-GW-240 | Aq | ng/L | 8/26/01 | - | √ 7.0 | 4.0 | <1.0 | <0.1> | 108 | |
| 0108149 -55 LB-3-W-130 | LB-3-W-130 | Aq | ng/L | 8/30/01 | _ | <1.0 | 3.2 | در.0 | 2.7 | 98 | |
| 0108149 -56 LB-3-W-150 | LB-3-W-150 | Aq | ng/L | 8/30/01 | - | ۸. 0. | ۲.0 د۲.0 | <1.0 | 1 | 100 | |
| 0108149 -57 LB-3-W-170 | LB-3-W-170 | Aq | ng/L | 8/30/01 | - | ۸. م.0 | 4.4 | <1.0 | 23 | 100 | |
| 0108149 -58 LB-3-W-200 | LB-3-W-200 | Aq | ng/L | 8/30/01 | - | <1.0 | 4.2 | <1.0 | 11 | 113 | |
| 0108149 -59 LB-3-W-240 | LB-3-W-240 | Aq | ng/L | 8/30/01 | - | <1.0 | <1.0 | 4.0 | 2.3 | 94 | |

Notes:

A representative sample from this project has been confirmed as required by the ADHS. EPA 8021

Analytical Quality Control Data Reagent Blank 8021B-Modified Transwest Geochem, Inc.

Law Engineering Inc. Project Name/No.:

Client Name:

S. Mesa WQARF/70211-0-0150-2-2.10 8/20-28/2001

Samples Received:





ADHS Cert. No.: AZM133/AZ0133

TGI ID No.: 0108149

| Matrix: | <i>></i> ' | Vapor |
|--|---------------|-------------------------|
| Units: | mg/m3 | hmdd |
| trans-1,2-Dichloroethene: | <1.0 | <0.25 |
| cis-1,2-Dichloroethene: | <1.0 | <0.25 |
| Trichloroethene: | <1.0 | <0.19 |
| Tetrachloroethene: | <1.0 | <0.15 |
| Surrogate (70-130) %: | | 06 |
| Date Analyzed: | /8 | 8/21/01 |
| Samples Linked: | 0108149 | 0108149 -(1,3,5,7,9,11) |
| Samples Linked: | 0108149 | 0108149 -(13-16) |
| The state of the s | | |

| Matrix: | | Vapor |
|-------------------------------------|------------------|---------------------|
| Units: | mg/m3 | hmy |
| trans-1,2-Dichloroethene: | <1.0 | <0.25 |
| cis-1,2-Dichloroethene: | 4.0 | <0.25 |
| Trichloroethene: | ح 1.0 | <0.19 |
| Tetrachloroethene: | <1.0 | <0.15 |
| Surrogate (70-130) %: | | 94 |
| Date Analyzed: | 80 | 8/25/01 |
| Samples Linked: | Į. | 0108149 -(24,26,28) |
| Samples Linked: 0108149 -(30,32,34) | 0108149 | -(30,32,34) |
| Samples Linked: | 0108149 -(36,37) | -(36,37) |

| | | / |
|---------------------------|---------|------------------------|
| Matrix: | , | vapor |
| Units: | mg/m3 | hmdd |
| trans-1,2-Dichloroethene: | <1.0 | <0.25 |
| cis-1,2-Dichloroethene: | <1.0 | <0.25 |
| Trichloroethene: | <1.0 | <0.19 |
| Tetrachloroethene: | در.0 | <0.15 |
| Surrogate (70-130) %: | | 110 |
| Date Analyzed: | æ | 8/28/01 |
| Samples Linked: | 0108149 | 0108149 -(42,44,46,48) |
| Samples Linked: | 0108149 | 0108149 -(50,52,54 |

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Project Name/No.: Client Name:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10 8/20-28/2001



Duplicate

| | frans.1 2.DCF | cie-1 2-DCF | TCE | H CO |
|--------------------------|--|----------------------------|--|-----------|
| - Hrite | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | - Carlon | - Cm |
| 3 1 2 | CIII/GIII | cing/in | CHI/GHI | cili/fili |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| Sample Result: | <1.0 | <1.0 | <1.0 | 11 |
| Duplicate Result: | <1.0 | <1.0 | <1.0 | 13 |
| RPD: | N/A | N/A | N/A | 17% |
| Surr Recovery (70-130)%: | 95% | %96 | And the second s | |
| Date Analyzed: | 8/2 | 8/21/01 | | |
| Sample Duplicated: | 0108149 -11 | -11 | | |
| Samples Linked: | 0108149 | 0108149 -(1,3,5,7,9,11,13) | | |

CS

| | trans-1,2-DCE | cis-1,2-DCE | TCE | PCE |
|-----------------------|---------------|--------------------------|-------|-------|
| Units: | mg/m3 | mg/m3 | mg/m3 | mg/m3 |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| LCS Amount: | 5.0 | 5.0 | 5.0 | 5.0 |
| LCS Result: | 5.7 | 5.6 | 4.3 | 4.4 |
| Percent Recovery: | 114 | 112 | 98 | 88 |
| LCS Surr. (70-130) %: | | 102% | | |
| Date Analyzed: | | 8/21/01 | | |
| Samples Linked: | 0108149 | 0108149 -(1,3,7,9,11,13) | | |
| Samples Linked. | 0108149 | 0108149 -(5 14-16) | | |

TGI ID No.: 0108149

ADHS Cert. No.: AZM133/AZ0133

Client Name:

Samples Received: Project Name/No.:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10

8/20-28/2001



Duplicate

| | The state of the s | | | |
|--------------------------|--|--------------------|-------|-------|
| | trans-1,2-DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/m3 | mg/m3 | mg/m3 | mg/m3 |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| Sample Result: | <20 | <20 | <20 | 480 |
| Duplicate Result: | <20 | <20 | <20 | 390 |
| RPD: | AA | NA | NA | 21% |
| Surr Recovery (70-130)%: | 94% | 94% | | |
| Date Analyzed: | | 8/21/01 | | |
| Sample Duplicated: | 0108149 -05 | -05 | | |
| Samples Linked: | | 0108149 -(5,14-16) | | |

CS

| | |) | | |
|-----------------------|---------------|------------------------|-------|-------|
| | trans-1,2-DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/m3 | mg/m3 | mg/m3 | mg/m3 |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| LCS Amount: | 5.0 | 5.0 | 5.0 | 5.0 |
| LCS Result: | 3.9 | 5.0 | 4.6 | 4.6 |
| Percent Recovery: | 78 | 100 | 92 | 92 |
| LCS Surr. (70-130) %: | | 95% | | |
| Date Analyzed: | | 8/25/01 | | |
| Samples Linked: | | 0108149 -(24,26,28,30) | | |
| Samples Linked: | | 0108149 -(32,34,36,37) | | |
| | | | | |

ADHS Cert. No.: AZM133/AZ0133 TGI ID No.: 0108149

Confidential

Client Name:

Project Name/No.:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10

8/20-28/2001



Duplicate

| | | | Comments and Control of the Control | |
|--------------------------|---------------|------------------------|--|-------|
| | trans-1,2-DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/m3 | mg/m3 | mg/m3 | mg/m3 |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| Sample Result: | <1.0 | 1.0 | <1.0 | 18 |
| Duplicate Result: | <1.0 | 1.3 | <1.0 | 18 |
| RPD: | Ą | 26% | ĄN | %0 |
| Surr Recovery (70-130)%: | 93% | 107% | manuman non nonexamonio (non proprio de la companya | |
| Date Analyzed: | 8/2 | 8/25/01 | | |
| Sample Duplicated: | 0108149 -32 | -32 | | |
| Samples Linked: | 0108149 | 0108149 -(24,26,28,30) | | |
| Samples Linked: | 0108149 | 0108149 -(32,34,36,37) | | |

LCS

| | | THE RESERVE THE PROPERTY OF THE PERSON NAMED AND TH | | |
|-----------------------|---------------|--|-------|--|
| | trans-1,2-DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/m3 | mg/m3 | mg/m3 | mg/m3 |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| LCS Amount: | 5.0 | 5.0 | 5.0 | 5.0 |
| LCS Result: | 4.5 | 5.2 | 5.0 | 4.7 |
| Percent Recovery: | 06 | 104 | 100 | 94 |
| LCS Surr. (70-130) %: | - | 116% | | The state of the s |
| Date Analyzed: | 8/2 | 8/28/01 | | |
| Samples Linked: | 0108149 | 0108149 -(42,44,46,48) | | |
| Samples Linked: | 0108149 | 0108149 -(50,52,54 | | |

TGI ID No.: 0108149

ADHS Cert. No.: AZM133/AZ0133

Samples Received: Project Name/No.: Client Name:

S. Mesa WQARF/70211-0-0150-2-2.10 Law Engineering Inc. 8/20-28/2001



Duplicate

| | trans-1,2-DCE | cis-1,2-DCE | TCE | PCE |
|--------------------------|---------------|------------------------|---------|-------|
| Units: | 1 | mg/m3 | mg/m3 | mg/m3 |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| Sample Result: | <1.0 | <1.0 | <1.0 | 1.6 |
| Duplicate Result: | 41.0 | <1.0 | <1.0 | 1.7 |
| RPD: | NA AN | N/A | AN A | %9 |
| Surr Recovery (70-130)%: | 113% | 116% | | |
| Date Analyzed: | | 8/29/01 | | |
| Sample Duplicated: | 010814950 | -50 | | |
| Samples Linked: | | 0108149 -(42,44,46,48) | | |
| Samples Linked: | | 0108149 -(50,52,54 | | |

ADHS Cert. No.: AZM133/AZ0133 TGI ID No.: 0108149

Confidential

Samples Received: Project Name/No.: Client Name:

S. Mesa WQARF/70211-0-0150-2-2.10 Law Engineering Inc.

8/20-28/2001



ADHS Cert. No.: AZM133/AZ0133 TGI ID No.: 0108149

Reagent Blank

| Units: | mg/kg |
|---------------------------|-----------------------|
| Matrix: | Soil |
| trans-1,2-Dichloroethene: | <0.10 |
| cis-1,2-Dichloroethene: | <0.10 |
| Trichloroethene: | <0.10 |
| Tetrachloroethene: | <0.10 |
| | |
| Surr Rec%(70-130): | 114 |
| Date Extracted: | 8/20/01 |
| Date Analyzed: | 8/21/01 |
| Samples Linked: | 0108149 -(2,4,6,8,10) |

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|---------------------------|---------------|
| Matrix: | Soil |
| trans-1,2-Dichloroethene: | <0.10 |
| cis-1,2-Dichloroethene: | <0.10 |
| Trichloroethene: | <0.10 |
| Tetrachloroethene: | <0.10 |
| | |
| Surr Rec%(70-130): | 118 |
| Date Extracted: | 8/21/01 |
| Date Analyzed: | 8/23/01 |
| Samples Linked: | 0108149 -(12) |

CS

| | trans-1,2- | | | |
|--------------------|------------|-----------------------|---------|---------|
| | DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| LCS Amount: | 0.50 | 0.50 | 0.50 | 0.50 |
| LCS Result: | 0.36 | 0.47 | 0.40 | 0.45 |
| Percent Recovery: | 72 | 94 | 80 | 6 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| Surr Rec%(70-130): | 95% | | | |
| Date Extracted: | 8/20/01 | | | |
| Date Analyzed: | 8/21/01 | | | |
| Samples Linked: | 0108149 | 0108149 -(2,4,6,8,10) | | |

| | trans-1,2- | | | |
|--------------------|---------------|-------------|---------|---------|
| | DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| LCS Amount: | 0.50 | 0.50 | 0.50 | 0.50 |
| LCS Result: | 0.40 | 0.47 | 0.45 | 0.51 |
| Percent Recovery: | 80 | 94 | 8 | 102 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| Surr Rec%(70-130): | %66 | | | |
| Date Extracted: | 8/21/01 | | | |
| Date Analyzed: | 8/23/01 | | | |
| Samples Linked: | 0108149 -(12) | -(12) | | |

Client Name:

Project Name/No.:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10

8/20-28/2001



ADHS Cert. No.: AZM133/AZ0133 TGI ID No.: 0108149

Reagent Blank

| Units: mg/kg Matrix: Soil trans-1,2-Dichloroethene: <0.10 | |
|---|---------|
| | |
| | |
| | |
| | |
| Trichloroethene: <0.10 | |
| Tetrachioroethene: <0.10 | |
| | |
| Surr Rec%(70-130): 101 | |
| Date Extracted: 8/25/01 | |
| Date Analyzed: 8/25/01 | |
| Samples Linked: 0108149 -(25,27,29) | ,27,29) |
| Samples Linked: 0108149 -(31,33,35) | 33 35) |

LCS

| | trans-1,2- | | | |
|--------------------|------------|---------------------|---------|---------|
| | DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| LCS Amount: | 0.50 | 0.50 | 0.50 | 0.50 |
| LCS Result: | 0.43 | 0.53 | 0.48 | 0.48 |
| Percent Recovery: | 86 | 106 | 96 | 96 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| Surr Rec%(70-130): | 106% | | | |
| Date Extracted: | 8/25/01 | | | |
| Date Analyzed: | 8/25/01 | | | |
| Samples Linked: | 0108149 | 0108149 -(25,27,29) | | |
| Samples Linked: | 0108149 | 0108149 -(31,33,35) | | |

70-130% **1**5E ng/L 8.6 Αd 9 86 cis-1,2-DCE 70-130% ng/L 4d 0 9.7 97 0108149 -(18-23) trans-1,2-70-130% 8/22/01 DCE ng/L %66 9.0 Aq 9 8 LCS Amount: LCS Result: Date Analyzed: Samples Linked: Units: Matrix: Percent Recovery: Limits Surr Rec%(70-130):

Aqueous

ug/L

Units: Matrix: ۸ 1.0 <u>م</u>1.0 ×1.0 ۸ 1.0

trans-1,2-Dichloroethene: cis-1,2-Dichloroethene: Trichloroethene: Tetrachloroethene: 70-130%

9.1 9

PCE ng/L ₽ 10

Samples Linked: 0108149 -(18-23)

8/22/01

97

Surr Rec%(70-130): Date Analyzed:

Client Name:

Project Name/No.:

Samples Received:

8/20-28/2001

S. Mesa WQARF/70211-0-0150-2-2.10 Law Engineering Inc.



ADHS Cert. No.: AZM133/AZ0133 TGI ID No.: 0108149

Reagent Blank

| Units: | ng/L |
|---------------------------|------------------|
| Matrix: | Aqueous |
| trans-1,2-Dichloroethene: | <1.0 |
| cis-1,2-Dichloroethene: | <1.0 |
| Trichloroethene: | <1.0 |
| Tetrachloroethene: | <1.0 |
| | |
| Surr Rec%(70-130): | 117 |
| Date Analyzed: | 8/26/01 |
| Samples Linked: | 0108149 -(38-41) |

LCS

| | franc.1 2. | | | |
|--------------------|------------------|-------------|---------|---------|
| | DCE | cis-1,2-DCE | TCE | PCE |
| Units: | ng/L | ng/L | ng/L | ng/L |
| Matrix: | Aq | Aq | Aq | Aq |
| LCS Amount: | 10 | 10 | 10 | 10 |
| LCS Result: | 9.1 | 11.0 | 10.1 | 8.8 |
| Percent Recovery: | 91 | 110 | 101 | 88 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| Surr Rec%(70-130): | 112% | | | |
| Date Analyzed: | 8/26/01 | | | |
| Samples Linked: | 0108149 -(38-41) | -(38-41) | | |

mg/kg

Soil

Matrix: Units:

trans-1,2-Dichloroethene: cis-1,2-Dichloroethene: Trichloroethene: Tetrachloroethene:

<0.10 <0.10 <0.10 <0.10

| | trans-1,2- | | | |
|--------------------|------------|---------------------|---------|---------|
| | DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| LCS Amount: | 05.0 | 0.50 | 0.50 | 0.50 |
| LCS Result: | 0.48 | 0.55 | 0.48 | 0.41 |
| Percent Recovery: | 96 | 110 | 96 | 82 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| Surr Rec%(70-130): | 107% | | | |
| Date Extracted: | 8/28/01 | | | |
| Date Analyzed: | 8/28/01 | | | |
| Samples Linked: | 0108149 | 0108149 -(43,45,47) | | |
| Samples Linked: | 0108149 | 0108149 -(49,51,53) | | |

Samples Linked: 0108149 -(43,45,47) Samples Linked: 0108149 -(49,51,53)

8/28/01 8/28/01

5

Surr Rec%(70-130): Date Extracted: Date Analyzed:

Client Name:

Project Name/No.:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10 8/20-28/2001



TGI ID No.: 0108149

ADHS Cert. No.: AZM133/AZ0133

Reagent Blank

| Units: | ug/L |
|---------------------------|------------------|
| Matrix: | Aqueous |
| trans-1,2-Dichloroethene: | 1.5 |
| cis-1,2-Dichloroethene: | <1.0 |
| Trichloroethene: | <1.0 |
| Tetrachloroethene: | <1.0 |
| | d |
| Surr Rec%(70-130): | 92 |
| Date Analyzed: | 8/30/01 |
| Samples Linked: | 0108149 -(55-59) |

LCS

| | trans-1,2- DCE | cis-1,2-DCE | TCE | PCE |
|--------------------|-------------------|-------------|---------|---------|
| Units: | ng/L | ug/L | ug/L | ug/L |
| Matrix: | Aq | Aq | Aq | Aq |
| LCS Amount: | 9 | 10 | 10 | 10 |
| LCS Result: | 12.0 | 10.4 | 9.3 | 10.1 |
| Percent Recovery: | 120 | 104 | 93 | 101 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| Surr Rec%(70-130): | %26 | | | |
| Date Analyzed: | 8/30/01 | | | |
| Samples Linked: | 0108149 -(55-59) | -(55-59) | | |

Transwest Geochem, Inc. Analytical Quality Control Data MS/MSD 8021B-Modified

Client Name: Law Engir Project Name/No.: S. Mesa W Samples Received: 8/20-28/20

Law Engineering Inc. S. Mesa WQARF/70211-0-0150-2-2.10 8/20-28/2001



TGI ID No.: 0108149 ADHS Cert. No.: AZM133/AZ0133

| | trans-1,2- | | | |
|-------------------|-------------|-----------------------|---------|---------|
| | DCE | cis-1,2-DCE | 10E | PCE |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| Sample Result: | <0.10 | <0.10 | <0.10 | <0.10 |
| Spike Amount: | 0.50 | 0.50 | 0.50 | 0.50 |
| Spike Result: | 0.38 | 0.47 | 0.42 | 0.45 |
| Percent Recovery: | %9/ | 94% | 84% | %06 |
| Duplicate Result: | 0.40 | 0.48 | 0.45 | 0.5 |
| Percent Recovery: | 80% | %96 | %06 | 100% |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| RPD: | 2% | 2% | %2 | 11% |
| Surr Rec%(70-130) | 95% | 102% | | |
| Date Extracted: | /8 | 8/20/01 | | |
| Date Analyzed: | 7/8 | 8/23/01 | | |
| Sample Spiked: | 0108149 -10 | -10 | | |
| Samples Linked: | 0108149 | 0108149 -(2,4,6,8,10) | | |

| | trans-1,2- | | | |
|-------------------|------------------|-------------|-----------|---------|
| | DCE | cis-1,2-DCE | 10E | PCE |
| Units: | ug/L | ng/L | ng/L | ng/L |
| Matrix: | Aqueous | Aqueous | Aqueous | Aqueous |
| Sample Result: | <1.0 | <1.0 | در.0 م | <1.0 |
| Spike Amount: | 10 | 10 | 10 | 10 |
| Spike Result: | 7.1 | 9.1 | 8.1 | 8.5 |
| Percent Recovery: | 71% | 91% | 81% | 85% |
| Duplicate Result: | 7.5 | 9.2 | 8.2 | 9.0 |
| Percent Recovery: | 75% | 95% | 82% | %06 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| RPD: | 2% | 1% | 1% | %9 |
| Surr Rec%(70-130) | 114% | 111% | | |
| Date Analyzed: | 2/8 | 8/22/01 | | |
| Samples Linked: | 0108149 -(18-23) | -(18-23) | | 4 |
| Sample Spiked: | 0108149 -19 | -19 | | |

Project Name/No.: Client Name:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10 8/20-28/2001



| | DCE | cis-1,2-DCE | TCE | PCE |
|-------------------|-------------|-------------|---------|---------|
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| Sample Result: | <0.10 | <0.10 | <0.10 | <0.10 |
| Spike Amount: | 0.50 | 0:20 | 0.50 | 0.50 |
| Spike Result: | 0.39 | 0.46 | 0.47 | 0.48 |
| Percent Recovery: | 78% | 95% | 94% | %96 |
| Duplicate Result: | 0.36 | 0.48 | 0.45 | 0.47 |
| Percent Recovery: | 72% | %96 | %06 | 94% |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| RPD: | 8% | 4% | 4% | 2% |
| Surr Rec%(70-130) | %86 | %86 | | |
| Date Extracted: | //8 | 8/21/01 | | |
| Date Analyzed: | /8 | 8/23/01 | | |
| Sample Spiked: | 0108149 -12 | -12 | | |
| Samples Linked: | 0108149 -12 | -12 | | |
| | | | | |

| Market 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | DCE | cis-1,2-DCE | TCE | PCE |
|--|-------------|---------------------|---------|---------|
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| Sample Result: | <0.10 | <0.10 | <0.10 | <0.10 |
| Spike Amount: | 0.50 | 0.50 | 0.50 | 0.50 |
| Spike Result: | 0.45 | 0.50 | 0.48 | 0.42 |
| Percent Recovery: | %06 | 100% | %96 | 84% |
| Duplicate Result: | 0.43 | 0.51 | 0.48 | 0.43 |
| Percent Recovery: | %98 | 102% | %96 | %98 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| RPD: | 2% | 2% | %0 | 2% |
| Surr Rec%(70-130) | 113% | 117% | | |
| Date Extracted: | 78 | 8/25/01 | | |
| Date Analyzed: | /8 | 8/25/01 | | |
| Sample Spiked: | 0108149 -35 | -35 | | |
| Samples Linked: | 0108149 | 0108149 -(25,27,29) | | |

Transwest Geochem, Inc. Analytical Quality Control Data MS/MSD 8021B-Modified

Client Name: Law Engineering Inc. Project Name/No.: S. Mesa WQARF/7021

Samples Received:

Law Engineering inc.
S. Mesa WQARF/70211-0-0150-2-2.10
8/20-28/2001



TGI ID No.: 0108149 ADHS Cert. No.: AZM133/AZ0133

| | trans-1,2- | | | |
|--|------------------|-------------|---------|---------|
| | DCE | cis-1,2-DCE | TCE | PCE |
| Units: | ng/L | ng/L | ug/L | ng/L |
| Matrix: | Aqueous | Aqueous | Aqueous | Aqueous |
| Sample Result: | <1.0 | ×1.0 | <1.0 | 9.6 |
| Spike Amount: | 10 | 10 | 10 | 10 |
| Spike Result: | 8.9 | 10.8 | 9.6 | 19.1 |
| Percent Recovery: | 89% | 108% | %66 | 95% |
| Duplicate Result: | 8.6 | 10.2 | 9.7 | 19.4 |
| Percent Recovery: | %98 | 102% | %26 | %86 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| RPD: | 3% | 2% | 2% | 2% |
| Surr Rec%(70-130) | 112% | 110% | | |
| And the state of t | | | | |
| Date Analyzed: | 8/2 | 8/26/01 | | |
| Sample Spiked: | 0108149 -39 | -39 | | |
| Samples Linked: | 0108149 -(38-41) | -(38-41) | | |

| | trans-1,2- | | | |
|-------------------|-------------|---------------------|---------|---------|
| | DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| Sample Result: | <0.10 | <0.10 | <0.10 | <0.10 |
| Spike Amount: | 0.50 | 0:20 | 0.50 | 0:20 |
| Spike Result: | 0.50 | 0.57 | 0.51 | 0.43 |
| Percent Recovery: | 100% | 114% | 102% | %98 |
| Duplicate Result: | 0.49 | 0.57 | 0.52 | 0.44 |
| Percent Recovery: | %86 | 114% | 104% | 88% |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| RPD: | 2% | %0 | 2% | 2% |
| Surr Rec%(70-130) | 113% | 116% | | |
| Date Extracted: | 7/8 | 8/28/01 | | |
| Date Analyzed: | 7/8 | 8/29/01 | | |
| Sample Spiked: | 0108149 -53 | -53 | | |
| Samples Linked: | 0108149 | 0108149 -(43,45,47) | | |
| Samples Linked: | 0108149 | 0108149 -(49,51,53) | | |

Project Name/No.: Client Name:

Samples Received:

Law Engineering Inc.

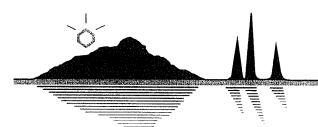
S. Mesa WQARF/70211-0-0150-2-2.10 8/20-28/2001



| | trans-1,2- | | | |
|-------------------|------------------|-------------|---------|---------|
| | DCE | cis-1,2-DCE | TCE | PCE |
| Units: | ug/L | ug/L | ng/L | ng/L |
| Matrix: | Aqueous | Aqueous | Aqueous | Aqueous |
| Sample Result: | <1.0 | 4.2 | <1.0 | 11 |
| Spike Amount: | 10 | 10 | 10 | 10 |
| Spike Result: | 9.6 | 15.2 | 10.1 | 22.2 |
| Percent Recovery: | %66 | 110% | 101% | 112% |
| Duplicate Result: | 11.3 | 14.9 | 10.1 | 22.4 |
| Percent Recovery: | 113% | 107% | 101% | 114% |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| RPD: | 13% | 2% | %0 | 1% |
| Surr Rec%(70-130) | %96 | 95% | | |
| | | | | |
| Date Analyzed: | //8 | 8/30/01 | | |
| Sample Spiked: | 0108149 -58 | -58 | | |
| Samples Linked: | 0108149 -(55-59) | -(55-59) | | |

ADHS Cert. No.: AZM133/AZ0133 TGI ID No.: 0108149

Confidential



TGI ID: 0109067

September 24, 2001

Law Engineering Inc. 4634 S. 36th Pl. Phoenix, AZ. 85040

Attention:

Jim Clarke

Project Name/No:

S. Mesa WQARF/70211-0-0150-2-2.10

Samples Received:

9/11-13/2001

Matrix:

Soil / Vapor

Mobile Lab No.:

TGI02

Transwest Geochem, Inc. received and analyzed samples on the above date(s). The samples were analyzed by EPA Method 8021B-Modified, a field screening technique. The results of these analyses and the quality control data are enclosed.

The calibration data for trans-1,2-Dichloroethene did not meet TGI criteria and although there were no reportable hits for this compound, the effected data has been flagged as estimated values with a 'J' flag.

If you have any questions or comments, please do not hesitate to contact us at (602)437-0330.

Sincerely,

Michael E. Barber

Laboratory Director

Mchalls Barber

ADHS License No.:

AZM133/AZ0133

Client Name:

Law Engineering Inc.

Project Name/No.: Samples Received:

S. Mesa WQARF/70211-0-0150-2-2.10 9/11-13/2001

TGI ID No.: 0109067 ADHS Cert. No.: AZM133/AZ0133

| | | | EPA 8021B- | EPA 8021B-Modified/Solvent Screen | rent Screen | | | | |
|---|-----------------|--------|------------|-----------------------------------|-------------|---------|--------------|----------|-----------|
| | Lab ID | 0109 | 0109067-1 | 0109067-2 | 167-2 | 0109(| 0109067-3 | 0109 | 0109067-4 |
| | Sample ID | LB4-8 | LB4-SG-10 | LB4-SG-20 | G-20 | LB4-S | LB4-SG-30 | LB4-S | _B4-SG-40 |
| | Date Analyzed | 9/1 | 9/11/01 | 9/11/01 | /01 | 9/11/01 | 1/01 | 9/11/01 | /01 |
| | Dilution Factor | | - | | | | | - | |
| *************************************** | Matrix | Va | Vapor | Vapor | oor | Vapor | por | Vapor | oor |
| ANALYTE | Units | mg/m3 | hpmv | mg/m3 | ppmv | mg/m3 | ppmv | mg/m3 | bpmv |
| trans-1,2-Dichloroethene | ethene | <1.0 J | <0.25 J | <1.0 J | <0.25 J | <1.0 J | <0.25 J | <1.0 J | <0.25 J |
| cis-1,2-Dichloroethene | hene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| Trichloroethene | | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 |
| Tetrachloroethene | d) | 1.7 | 0.25 | <1.0 | <0.15 | 8.1 | 1.19 | 8.3 | 1.22 |
| Surrogate (70-130)- % | % -(c | 10 | 108% | 109 | %601 | 100 | 106 % | 100 | %60I |

| | | EPA 8021B | EPA 8021B-Modified/Solvent Screen | vent Screen | | | | |
|--------------------------|--------|------------------|-----------------------------------|-------------|---|------------|---------|------------|
| Lab ID | 0109 | 1109067-5 | 01090 | 0109067-11 | 01090 | 0109067-12 | 01090 | 0109067-13 |
| Sample ID | LB4-8 | LB4-SG-50 | LB4-8 | _B4-SG-60 | S-281 | LB7-SG-10 | S-287-8 | LB7-SG-20 |
| Date Analyzed | 1/6 | 9/11/01 | 9/1/ | 9/14/01 | 1/6 | 9/14/01 | 9/14/01 | 1/01 |
| Dilution Factor | | | , | | | | • | |
| Matrix | Va | Vapor | Vapor | por | Va | Vapor | Vapor | por |
| ANALYTE Units | mg/m3 | bpmv | mg/m3 | bpmv | mg/m3 | ppmv | mg/m3 | ppmv |
| trans-1,2-Dichloroethene | <1.0 J | <0.25 J | <1.0 J | <0.25 J | <1.0 J | <0.25 J | <1.0 J | <0.25 J |
| cis-1,2-Dichloroethene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| Trichloroethene | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 |
| Tetrachioroethene | 2.1 | 0.31 | 1.1 | 0.16 | 4.5 | 99.0 | 2.0 | 0.29 |
| Surrogate (70-130)- % | 10 | 108% | 1 | 117% | ======================================= | 118% | 7 | 118% |

Project Name/No.: Client Name:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10 9/11-13/2001



| | | | EPA 8021B | EPA 8021B-Modified/Solvent Screen | vent Screen | | | | |
|--------------------------|-----------------|--------|------------------|-----------------------------------|-------------|--------|------------|--------|------------|
| | Lab ID | 01090 | 0109067-14 | 01090 | 0109067-15 | 01090 | 0109067-16 | 01090 | 0109067-17 |
| | Sample ID | LB7-8 | LB7-SG-30 | S-281 | LB7-SG-40 | LB7-5 | LB7-SG-50 | LB7-8 | LB7-SG-60 |
| | Date Analyzed | 9/1/ | 9/14/01 | 9/14/01 | 1/01 | 9/1/6 | 9/14/01 | 9/1/ | 9/14/01 |
| | Dilution Factor | | | | ı | | _ | | 1 |
| | Matrix | Va | Vapor | Va | Vapor | Va | Vapor | Va | Vapor |
| ANALYTE | Units | mg/m3 | hpmv | mg/m3 | ppmv | mg/m3 | vmdd | mg/m3 | bpmv |
| trans-1,2-Dichloroethene | oethene | <1.0 J | <0.25 J | <1.0 J | <0.25 J | <1.0 J | <0.25 J | <1.0 J | <0.25 J |
| cis-1,2-Dichloroethene | thene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| Trichloroethene | | <1.0 | <0.19 | ح <u>ا</u> .0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 |
| Tetrachloroethene | 9 | 16 | 2.36 | 3.3 | 0.49 | 19 | 2.80 | 21 | 3.09 |
| Surrogate (70-130)- % | % -(0) | 11 | 115% | 11 | 115% | 11(| 116% | 12 | 120% |

| | | | EPA 8021B | EPA 8021B-Modified/Solvent Screen | vent Screen | | | | |
|--------------------------|--|--------|------------|-----------------------------------|-------------|--------|------------|--------|------------|
| | Lab ID | 01090 | 0109067-25 | 01090 | 0109067-26 | 01090 | 0109067-27 | 01090 | 0109067-28 |
| | Sample ID | -981 | LB6-SG-10 |)-987 | LB6-SG-20 | LB6- | -B6-SG-30 | -98J | LB6-SG-40 |
| | Date Analyzed | 1/6 | 9/14/01 | 1/6 | 9/14/01 | 9/1 | 9/14/01 | 9/1 | 9/14/01 |
| | Dilution Factor | • | - | • | 1 | | 1 | | 1 |
| | Matrix | Va | Vapor | Va | Vapor | Va | Vapor | Na | Vapor |
| ANALYTE | Units | mg/m3 | hmdd | mg/m3 | hpmv | mg/m3 | ymdd | mg/m3 | ppmv |
| trans-1,2-Dichloroethene | ethene | <1.0 J | <0.25 J | <1.0 J | <0.25 J | <1.0 J | <0.25 J | <1.0 J | <0.25 J |
| cis-1,2-Dichloroethene | hene | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 | <1.0 | <0.25 |
| Trichloroethene | THE REAL PROPERTY AND ASSESSMENT OF THE PROPERTY OF THE PROPER | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 | <1.0 | <0.19 |
| Tetrachloroethene | | 1.5 | 0.22 | 37 D | 5.45 | 22 | 3.24 | 15 | 2.21 |
| Surrogate (70-130)- % | % -((| 11 | 118% | 11 | 118% | 11 | 118% | 117% | |

Confidential

Transwest Geochem, Inc. Analytical Results

Client Name:

Law Engineering Inc.

Project Name/No.:

Samples Received:

S. Mesa WQARF/70211-0-0150-2-2.10

9/11-13/2001



| | EFA 0UZID | EPA 8021B-Modified/Solveill Screen | יייייייייייייייייייייייייייייייייייייי | | |
|--------------------------|-----------------|------------------------------------|--|---------|------------|
| | Lab ID | 01090 | 0109067-29 | 01090 | 0109067-30 |
| | Sample ID | S-987 | _B6-SG-50 | S-987 | LB6-SG-60 |
| | Date Analyzed | 9/14/01 | 1/01 | 9/14/01 | 4/01 |
| | Dilution Factor | | | • | |
| | Matrix | Vapor | oor | Val | Vapor |
| ANALYTE | Units | mg/m3 | bpmv | mg/m3 | ppmv |
| trans-1,2-Dichloroethene | ethene | <1.0 J | <0.25 J | <1.0 J | <0.25 J |
| cis-1,2-Dichloroethene | hene | <1.0 | <0.25 | <1.0 | <0.25 |
| Trichloroethene | | <1.0 | <0.19 | <1.0 | <0.19 |
| Tetrachloroethene | | 65 D | 9.57 | 82 D | 12.08 |
| Surrogate (70-130)- % | % -((| 112 | 112% | 11. | 117% |

Notes:

Q

- The vapor analysis performed by Transwest Geochem, Inc. is a screening technique Sample was analyzed at a greater dilution on the same day.
- The reported concentration is estimated. See cover letter for narrative.

based on a modified EPA method. This data is not to be used in compliance situations.

Transwest Geochem, Inc. **Analytical Results**

Client Name:

Project Name/No.:

Samples Received:

S. Mesa WQARF/70211-0-0150-2-2.10 9/11-13/2001 Law Engineering Inc.



ADHS Cert. No.: AZM133/AZ0133 TGI ID No.: 0109067

| TGI ID/ | CLIENT | | | | | | EPA 802 | EPA 8021B-Modified/Solvent Screen | vent Screen | | | |
|----------------------|----------|--------|-------|-----------|----------|-----|-----------|-----------------------------------|-------------|-------|--------|---------|
| SAMPLE | Q | | | Date | Date | | trans-1,2 | cis-1,2 | | | Sur. | 70-130% |
| NUMBER | | Matrix | Units | Extracted | Analyzed | E E | DCE | DCE | TCE | PCE | Rec. % | Flag |
| 0109067 -06 | LB4-S-10 | Soil | mg/kg | 9/11/01 | 9/12/01 | - | <0.10 J | <0.10 | <0.10 | <0.10 | 66 | |
| 0109067 -07 | LB4-S-20 | Soil | mg/kg | 9/11/01 | 9/12/01 | - | <0.10 J | <0.10 | <0.10 | <0.10 | 107 | |
| 0109067 -08 | LB4-S-30 | Soil | mg/kg | 9/11/01 | 9/12/01 | - | <0.10 J | <0.10 | <0.10 | <0.10 | 101 | |
| 0109067 -09 LB4-S-40 | LB4-S-40 | Soil | mg/kg | 9/11/01 | 9/12/01 | ~ | <0.10 J | <0.10 | <0.10 | <0.10 | 102 | |
| 0109067 -10 | LB4-S-50 | Soil | mg/kg | 9/11/01 | 9/12/01 | - | <0.10 J | <0.10 | <0.10 | <0.10 | 8 | |
| 0109067 -18 | LB4-5-60 | Soil | mg/kg | 9/13/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 98 | |
| 0109067 -19 | LB7-S-10 | Soil | mg/kg | 9/13/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 91 | |
| 0109067 -20 LB7-S-20 | LB7-S-20 | Soil | mg/kg | 9/13/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 86 | |
| 0109067 -21 | LB7-S-30 | Soil | mg/kg | 9/13/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 107 | |
| 0109067 -22 | LB7-S-40 | Soil | mg/kg | 9/13/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 104 | |
| 0109067 -23 | LB7-S-50 | Soil | mg/kg | 9/13/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 94 | |
| 0109067 -24 | LB7-S-60 | Soil | mg/kg | 9/13/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 8 | |
| 0109067 -31 | LB6-S-10 | Soil | mg/kg | 9/14/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 102 | |
| 0109067 -32 | LB6-S-20 | Soil | mg/kg | 9/14/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 8 | |
| 0109067 -33 | LB6-S-30 | Soil | mg/kg | 9/14/01 | 9/14/01 | ~ | <0.10 | <0.10 | <0.10 | <0.10 | 86 | |
| 0109067 -34 | LB6-S-40 | Soil | mg/kg | 9/14/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 106 | |
| 0109067 -35 | LB6-S-50 | Soil | mg/kg | 9/14/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 96 | |
| 0109067 -36 | LB6-S-60 | Soil | mg/kg | 9/14/01 | 9/14/01 | - | <0.10 | <0.10 | <0.10 | <0.10 | 98 | |

Notes:

The reported concentration is estimated. See cover letter for narrative.

Confidential

Analytical Quality Control Data Reagent Blank 8021B-Modified Transwest Geochem, Inc.

9/11-13/2001 Samples Received: Project Name/No.: Client Name:

S. Mesa WQARF/70211-0-0150-2-2.10 Law Engineering Inc.

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ADHS Cert. No.: AZM133/AZ0133

TGI ID No.: 0109067

| Matrix: | /a | Vapor | |
|---------------------------|----------------|---------|--|
| Units: | mg/m3 | ppmv | |
| trans-1,2-Dichloroethene: | <1.0 | <0.25 | |
| cis-1,2-Dichloroethene: | <1.0 | <0.25 | |
| Trichloroethene: | <1.0 | <0.19 | |
| Tetrachloroethene: | <1.0 | <0.15 | |
| Surrogate (70-130) %: | _ | 116 | |
| Date Analyzed: | 9/1 | 9/11/01 | |
| Samples Linked: | 0109067 -(1-5) | -(1-5) | |

| Matrix: | | Vapor |
|--------------------------------------|-------------|--------------|
| Units: | mg/m3 | hpmv |
| trans-1,2-Dichloroethene: | <1.0 1.0 | <0.25 |
| cis-1,2-Dichloroethene: | <1.0 | <0.25 |
| Trichloroethene: | <1.0 | <0.19 |
| Tetrachloroethene: | <1.0 | <0.15 |
| Surrogate (70-130) %: | | 116 |
| Date Analyzed: | 53 | 9/14/01 |
| Samples Linked: 0109067 -11-17,25-30 | 0109067 | -11-17,25-30 |

Analytical Quality Control Data Transwest Geochem, Inc. 8021B-Modified

Client Name:

Project Name/No.:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10

9/11-13/2001



Duplicate

| | A | | | Contraction of the Contraction o |
|--------------------------|----------------|-------------|-------|--|
| | trans-1,2-DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/m3 | mg/m3 | mg/m3 | mg/m3 |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| Sample Result: | <1.0 | <1.0 | <1.0 | <1.0 |
| Duplicate Result: | <1.0 | <1.0 | <1.0 | <1.0 |
| RPD: | N/A | N/A | N/A | N/A |
| Surr Recovery (70-130)%: | 117% | 120% | | |
| Date Analyzed: | 9/12/01 | 701 | | |
| Sample Duplicated: | 0109058 -1 | _ | | |
| Samples Linked: | 0109067 -(1-5) | -(1-5) | | |

LCS

| | |) | | |
|-----------------------|----------------|-------------|-------|-------|
| | trans-1,2-DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/m3 | mg/m3 | mg/m3 | mg/m3 |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| LCS Amount: | | 5.0 | 5.0 | 15 |
| LCS Result: | 5.0 | 5.8 | 5.3 | 5.4 |
| Percent Recovery: | 100 | 116 | 106 | 36 |
| LCS Surr. (70-130) %: | 100 | 108% | - | |
| Date Analyzed: | 9/11/01 | /01 | | |
| Samples Linked: | 0109067 -(1-5) | -(1-5) | | |

TGI ID No.: 0109067

ADHS Cert. No.: AZM133/AZ0133

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Analytical Quality Control Data Transwest Geochem, Inc. 8021B-Modified

Client Name:

Project Name/No.:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10

9/11-13/2001



Duplicate

| | trans-1,2-DCE | cis-1,2-DCE | TCE | PCE |
|--------------------------|---------------|----------------------|-------|-------|
| Units: | mg/m3 | mg/m3 | mg/m3 | mg/m3 |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| Sample Result: | <1.0 | <1.0 | <1.0 | 16 |
| Duplicate Result: | <1.0 | <1.0 | <1.0 | 17 |
| RPD: | N/A | N/A | N/A | %9 |
| Surr Recovery (70-130)%: | 115% | 113% | | |
| Date Analyzed: | 9/14/01 | 1/01 | | |
| Sample Duplicated: | 0109067 -14 | -14 | | |
| Samples Linked: | | 0109067 -11-17,25-30 | | |

CS

| | |)) I | | |
|-----------------------|---------------|----------------------|-------|-------|
| | trans-1,2-DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/m3 | mg/m3 | mg/m3 | mg/m3 |
| Matrix: | Vapor | Vapor | Vapor | Vapor |
| LCS Amount: | 5.0 | 5.0 | 5.0 | 15 |
| LCS Result: | 5 | 5.6 | 5.9 | 5.8 |
| Percent Recovery: | 100 | 112 | 118 | 39 |
| LCS Surr. (70-130) %: | | 115% | | |
| Date Analyzed: | 9/14/01 | 1/01 | | |
| Samples Linked: | 0109067 | 0109067 -11-17,25-30 | | |
| | | | | |

TG! ID No.: 0109067

ADHS Cert. No.: AZM133/AZ0133

Reagent Blank/LCS Method 8021B-Modified Analytical Quality Control Data Transwest Geochem, Inc.

Client Name:

Project Name/No.:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10 9/11-13/2001



TGI ID No.: 0109067

ADHS Cert. No.: AZM133/AZ0133

Reagent Blank

| | Approximation of the control of the |
|---------------------------|---|
| Units: | mg/kg |
| Matrix: | Soil |
| trans-1,2-Dichloroethene: | <0.10 |
| cis-1,2-Dichloroethene: | <0.10 |
| Trichloroethene: | <0.10 |
| Tetrachloroethene: | <0.10 |
| | |
| Surr Rec%(70-130): | 113 |
| Date Extracted: | 9/11/01 |
| Date Analyzed: | 9/12/01 |
| Samples Linked: | 0109067 -(6-10) |

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| _ | |

| | | | CONTRACTOR OF THE PARTY OF THE | |
|--------------------|-----------------|---------|---|---------|
| | | | Ethyl | Total |
| | Benzene | Toluene | Benzene | Xylenes |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| LCS Amount: | 0.50 | 0.50 | 0.50 | 1.5 |
| LCS Result: | 0.50 | 0.58 | 0.51 | 1.6 |
| Percent Recovery: | 100 | 116 | 102 | 107 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| Surr Rec%(70-130): | 110% | | | |
| Date Extracted: | 9/11/01 | | | |
| Date Analyzed: | 9/12/01 | | | |
| Samples Linked: | 0109067 -(6-10) | -(6-10) | | |

| Units: | mg/kg |
|---------------------------|------------------|
| Matrix: | Soil |
| trans-1,2-Dichloroethene: | <0.10 |
| cis-1,2-Dichloroethene: | <0.10 |
| Trichloroethene: | <0.10 |
| Tetrachioroethene: | <0.10 |
| | • |
| Surr Rec%(70-130): | 96 |
| Date Extracted: | 9/13/01 |
| Date Analyzed: | 9/14/01 |
| Samples Linked: | 0109067 -(18-24) |

| | | - decourable - dec | *************************************** | |
|--------------------|---------------------------|--|---|---------|
| | trans-1,2-DCE cis-1,2-DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| LCS Amount: | 0.50 | 0.50 | 0.50 | 0.50 |
| LCS Result: | 0.57 | 0.52 | 0.45 | 0.43 |
| Percent Recovery: | 114 | 104 | 06 | 98 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| Surr Rec%(70-130): | 94% | | | |
| Date Extracted: | 9/13/01 | | | |
| Date Analyzed: | 9/14/01 | | | |
| Samples Linked: | 0109067 -(18-24) | -(18-24) | | |

Reagent Blank/LCS Method 8021B-Modified Analytical Quality Control Data Transwest Geochem, Inc.

Client Name:

Project Name/No.:

Samples Received:

Law Engineering Inc.

S. Mesa WQARF/70211-0-0150-2-2.10 9/11-13/2001



TGI ID No.: 0109067

ADHS Cert. No.: AZM133/AZ0133

Reagent Blank

| Units: | mg/kg |
|---------------------------|------------------|
| Matrix: | Soil |
| trans-1,2-Dichloroethene: | <0.10 |
| cis-1,2-Dichloroethene: | <0.10 |
| Trichloroethene: | <0.10 |
| Tetrachloroethene: | <0.10 |
| | |
| Surr Rec%(70-130): | 101 |
| Date Extracted: | 9/14/01 |
| Date Analyzed: | 9/14/01 |
| Samples Linked: | 0109067 -(31-36) |

LCS

| | |) | | |
|--------------------|---------------------------|-------------|---------|---------|
| | trans-1,2-DCE cis-1,2-DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| LCS Amount: | 0.50 | 0.50 | 0.50 | 0.50 |
| LCS Result: | 0.50 | 0.54 | 0.51 | 0.55 |
| Percent Recovery: | 100 | 108 | 102 | 110 |
| Limits | 70-130% | 70-130% | 70-130% | 70-130% |
| Surr Rec%(70-130): | 80% | | | |
| Date Extracted: | 9/14/01 | | | |
| Date Analyzed: | 9/14/01 | | | |
| Samples Linked: | 0109067 -(31-36) | -(31-36) | | |

Transwest Geochem, Inc. Analytical Quality Control Data MS/MSD 8021B-Modified

Client Name: Project Name/No.:

Law Engineering Inc. S. Mesa WQARF/70211-0-0150-2-2.10

S. Mesa WQARF 9/11-13/2001



TGI ID No.: 0109067 ADHS Cert. No.: AZM133/AZ0133

| Samples Received: | 9/11-13/2001 | | | | |
|-------------------|-----------------|-------------|--|---------|--|
| | | | | | |
| | trans-1,2- | | | | |
| | DCE | cis-1,2-DCE | TCE | PCE | |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg | |
| Matrix: | Soil | Soil | Soil | Soil | |
| Sample Result: | <0.10 | <0.10 | <0.10 | <0.10 | |
| Spike Amount: | 0.50 | 0.50 | 0.50 | 0.50 | |
| Spike Result: | 0.50 | 0.58 | 0.54 | 0.54 | |
| Percent Recovery: | 100% | 116% | 108% | 108% | |
| Duplicate Result: | 0.50 | 0.58 | 0.52 | 0.52 | |
| Percent Recovery: | 100% | 116% | 104% | 104% | |
| Limits: | 70-130% | 70-130% | 70-130% | 70-130% | |
| RPD: | %0 | %0 | 4% | 4% | |
| Surr Rec%(70-130) | 100% | 94% | Park de la companya de la park de | | |
| Date Extracted: | | 9/11/01 | | | |
| Date Analyzed: | | 9/12/01 | | | |
| Samples Linked: | 0109067 -(6-10) | -(6-10) | | | |
| Sample Spiked: | 0109067 -10 | -10 | | | |

| | trans-1,2- | | | |
|-------------------|------------------|-------------|--|---------|
| | DCE | cis-1,2-DCE | TCE | PCE |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg |
| Matrix: | Soil | Soil | Soil | Soil |
| Sample Result: | <0.10 | <0.10 | <0.10 | <0.10 |
| Spike Amount: | 0.50 | 0.50 | 0.50 | 0.50 |
| Spike Result: | 0.55 | 0.53 | 0.47 | 0.43 |
| Percent Recovery: | 110% | 106% | 94% | %98 |
| Duplicate Result: | 0.48 | 0.46 | 0.44 | 0.48 |
| Percent Recovery: | %96 | 95% | 88% | %96 |
| Limits: | 70-130% | 70-130% | 70-130% | 70-130% |
| RPD: | 14% | 14% | 2% | 11% |
| Surr Rec%(70-130) | 95% | 80% | ************************************** | |
| Date Extracted: | 9/1 | 9/13/01 | | |
| Date Analyzed: | 9/1/ | 9/14/01 | | |
| Samples Linked: | 0109067 -(18-24) | -(18-24) | | |
| Sample Spiked: | 0109067 -24 | -24 | | |

Analytical Quality Control Data MS/MSD 8021B-Modified Transwest Geochem, Inc.

Samples Received: Project Name/No.: Client Name:

S. Mesa WQARF/70211-0-0150-2-2.10 9/11-13/2001 Law Engineering Inc.

| Her. | |
|------|--|
| | |

ADHS Cert. No.: AZM133/AZ0133 TGI ID No.: 0109067

| | trans-1,2- | | | | |
|-------------------|-------------|------------------|---------|---------|--|
| | DCE | cis-1,2-DCE | TCE | PCE | |
| Units: | mg/kg | mg/kg | mg/kg | mg/kg | |
| Matrix: | Soil | Soil | Soil | Soil | |
| Sample Result: | <0.10 | <0.10 | <0.10 | <0.10 | |
| Spike Amount: | 0.50 | 0.50 | 0.50 | 0.50 | |
| Spike Result: | 0.54 | 0.52 | 0.48 | 0.49 | |
| Percent Recovery: | 108% | 104% | %96 | %86 | |
| Duplicate Result: | 0.55 | 0.55 | 0.46 | 0.44 | |
| Percent Recovery: | 110% | 110% | 95% | 88% | |
| Limits: | 70-130% | 70-130% | 70-130% | 70-130% | |
| RPD: | 2% | %9 | 4% | 11% | |
| Surr Rec%(70-130) | 84% | 82% | | | |
| Date Extracted: | 9/1 | 9/14/01 | | | |
| Date Analyzed: | 9/1 | 9/14/01 | | | |
| Samples Linked: | 0109067 | 0109067 -(31-36) | | | |
| Sample Spiked: | 0109067 -35 | -35 | | | |



* CHAIN OF CUSTODY FORM

(949) 201-4667 FAX (999) 370-1046
 (919) 370-4667 FAX (919) 370-1046
 (818) 779-1844 FAX (818) 779-1843
 (858) 505-8566 FAX (859) 505-9569
 (480) 785-043 FAX (480) 785-0851
 (702) 798-3620 FAX (702) 798-3621

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(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843

CHAIN OF CUSTODY FORM

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| K | | | i ski | | | | | | | | | i i | | S | | | Special Instructions | | • | * | |

COC-GB



602-437-0250

Fax:

City, State ZIP:

Client Name: Project Manager:

Jim

4634 S. 36th Place Law Engineering, Inc

Phoen. x, AZ 85040

GEOCHEN

Phoenix, AZ 85040 3725 E. Atlanta Ave., Ste 2

Fax: Phone: (602) 437-0330 (602) 437-0660

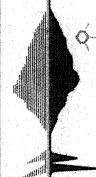
Mobile Lab - Chain of Custody

ML No: S TGI Work Order No: 0/08/49 Date * 5/25/01 Page / of ____

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602-437-0250

Phoenix, AZ

04058 Fax:

602-437-3675

Phone:

Fax:

City, State ZIP:

Address: Company:

Address: Client Name: Project Manager:

4634 5.36 th Place

law Engineering Inc

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City, State ZIP:

TRANSWEST

Phoenix, AZ 85040 3725 E. Atlanta Ave., Ste 2

Fax: Phone: (602) 437-0330 Fax: (602) 437-0660

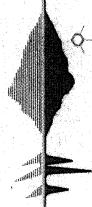
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Mobile Lab - Chain of Custody

ML No: S TGI Work Order No: 0/08/49

Date 8/26/01 Page / of ____

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Engineering, 36th Place

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Project Manager:

TRANSWEST GEOCHEM

3725 E. Atlanta Ave., Ste 2 Phoenix, AZ 85040

Fax: Phoenix, AZ 85040
Phone: (602) 437-0330 (602) 437-0660

Bill to:

Company: Address:

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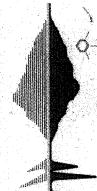
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Mobile Lab - Chain of Custody

ML No: 2 TGI Work Order No: 0/08/49

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602-437-0250

Phoenix AZ

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Fax:

602-437-3675

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Client Name: Project Manager:

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Phoenix, AZ 85040 3725 E. Atlanta Ave., Ste 2

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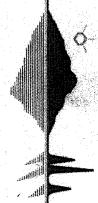
Phone: (602) 437-0330 Fax: (602) 437-0660

Mobile Lab - Chain of Custody

ML No: 2 TGI Work Order No: 0108149

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Address: City, State ZIP:

4634 S. 36th Place

Phoenix, AZ 85040

Law Engineering, Inc

Project Manager: Client Name:

Jim.

TRANSWEST

Phoenix, AZ 85040 3725 E. Atlanta Ave., Ste 2 Phone:

(602) 437-0330

Fax (602) 437-0660

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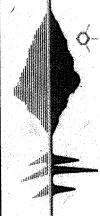
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Mobile Lab - Chain of Custody

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City, State ZIP: Address: Client Name: Project Manager:

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Address:

City, State ZIP:

Law Engineering,

Jim Clarke

Phoenix, AZ

Fax:

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TRANSWEST GEOCHEM

Phoenix, AZ 85040 3725 E. Atlanta Ave., Ste 2

Phone: (602) 437-0330 Fax: (602) 437-0660

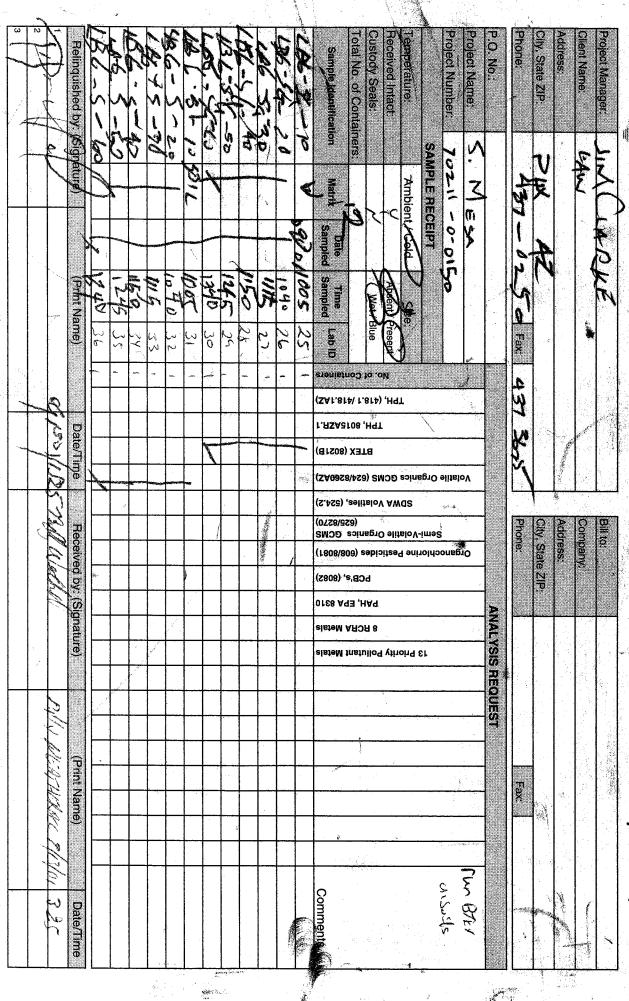
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Mobile Lab - Chain of Custody

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Chain of Custody

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Phone: Fax:

(602) 437-0330

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Phoenix, Arizona 85040

3725 East Atlanta Avenue, Suite 2

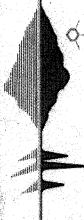


3725 East Atlanta Avenue, Suite 2 Phoenix, Arizona 85040 Phone: (602) 437-0330 Fax: (602) 437-0660

Chain of Custody

Date 2911 Page 2 of 2

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TRANSWEST GEOCHEM

3725 East Atlanta Avenue, Suite 2 Phoenix, Arizona 85040 Phone: (602) 437-0330 Fax: (602) 437-0660

TGI Work Order No: 0105067

Date 07 /2 W Page 1 of 2

| Relinquis (ed M. (Signature) (Print Name) | Name: S.M.A. Sample Receipt Ambient / Cold Intact: Marrix Sampled Sampled Lab ID Seals: Marrix Sampled Sampled Lab ID Metablication Marrix Sampled Sampled Lab ID (ZAT.814) 1-814) 'Hdt (ZAT.814) 1-814) 'Hdt | Phone: +37 0740 Fax 437 | City State ZIP: MY DZ. | me: 2 | Project Manager: 1, LARKO |
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7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406
9484 Chessipastic Dr., Suite 905, San Diego, CA 92123
9830 South 51st St., Suite B-120, Phoentx, AZ 85044
2520 E. Suriset Rd., Suite 3, Las Vegas, NV 89120

1999) 370-4667 FAX (999) 370-1046 (999) 370-4667 FAX (999) 370-1046 (818) 779-1944 FAX (818) 779-1843 (888) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851 (702) 798-3620 FAX (702) 788-3621

Relinquished By: Relinquished By: Relinquished By: 18/18 立るころで Description ミス . Q. S F) 0 JARK 2 Sample 1 Matrix Date /Time: Date /Time: Container Ďate /Time; ガジス ĺΛ Туре W Fax Number: Project/PO Number: # o, Ø, 7020-0-0150 B Sampling Sampling CHAIN OF CUSTODY FORM M NO SE 一流の 100 でい 1200 N 物 Time Received by: Received in Lab by: Received by: Preservatives 802 100 8260 Date /Time: Date /Time: Date /Time: Analysis Required Sample Integrity: 24 hours 48 hours same day Tumaround Time: (Check) (Check) Special Instructions 5 days on ice ä V W normal Page 72 hours S ٩,

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Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



APPENDIX H

DEL MAR ANALYTICAL SOIL SAMPLE ANALYTICAL REPORT



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/20/01 Received: 08/21/01

Report Number:

PKH0356

Issued: 8/31/01

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|----------------------|-----------------------|------------------|
| PKH0356-01 | LB1 Rinse | Water |
| PKH0356-02 | LB-1-S-10 | Soil |
| PKH0356-03 | LB-1-S-20 | Soil |
| PKH0356-04 | LB-1-S-30 | Soil |
| PKH0356-05 | LB-1-S-40 | Soil |
| PKH0356-06 | LB-1-S-50 | Soil |
| PKH0356-07 | Trip Blank | Water |

SAMPLE RECEIPT:

Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES:

Holding times were met.

PRESERVATION:

Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS:

The N1 flag on Cyanide indicates that the samples are tested for the presence of sulfide in the lab within 24 hours of

sampling. Samples were tested past the 24 hours.

SUBCONTRACTED:

No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA:

The R1 flag on Cyanide indicates that the RPD exceeded the method control limit. See Corrective Action Report.

EXPLANATION OF DATA

QUALIFIERS:

The L3 flag on 8260 and Cyanide indicates that the Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.

DEL MAR ANALY (CAL, PHOENIX (AZ0426)

Melissa Evans Project Manager

PKH0356 Page 1 of 35





CORRECTIVE ACTION REPORT

Department: Wet Chemistry

Methods:

9014

Date:

08/29/2001

Matrix:

Soil

Batch:

P1H2911

Samples Affected:

PKH0356-02 - PKH0356-06 & PKH0374-02

Identification and Definition of Problem:

The Matrix Spike Duplicate (MSD) recovered low (42%) and outside of the 70-130% acceptance limits. Because of the low recovery in the MSD the Relative Percent Difference (RPD) between the Matrix Spike (MS) and the MSD was high (52.1%) and outside of the 20% acceptance limits.

Determination of the Cause of the Problem:

A definitive cause for the low recovery has not been determined.

Corrective Action:

The MS as well as the Laboratory Control Sample recovered within acceptance limits, thus validating the batch. The MSD has been flagged "M2" to indicate the low recovery and "R1" to indicate that the RPD was outside of acceptance limits.

Quality Assurance Manager

Elizabeth C. Wueschner: Elystect C. U usul Date: 09/05/2001



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix A 7 85040

Client Project ID: 70211-0-0150

Sampled: 08/20/01 Received: 08/21/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number: PKH0356

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Sample ID: PKH0356-01 (LBI Rinse - Water) Acetone | Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|------------------------------|----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Acctone | Sample ID: PKH0356-01 (LB1 F | Rinse - Water) | | 9 | • | | | | |
| Benzene | - , | • | P1H3106 | 20 | ND | 1 | 8/30/01 | 8/30/01 | |
| Bromochenzene | Benzene | | | | | | | | |
| Bromochloromethane | Bromobenzene | | P1H3106 | | | | | | * |
| Bromofich PA 8260B PH3106 2.0 ND 1 8/30/01 8/30/01 Ph 1 8/30/01 8/30/01 Ph 1 PA 8260B PH3106 5.0 ND 1 8/30/01 8/30/01 Ph 1 PA 8260B PH3106 5.0 ND 1 8/30/01 8/30/01 Ph 1 PA 8260B PH3106 5.0 ND 1 8/30/01 Ph 1 PA 8260B PH3106 5.0 ND 1 8/30/01 Ph 1 PA 8260B PH3106 5.0 ND 1 8/30/01 Ph 1 PA 8260B PH3106 5.0 ND 1 8/30/01 Ph 1 PA 8260B PH3106 5.0 ND 1 8/30/01 RA30/01 PA 8260B PH3106 5.0 ND 1 8/30/01 RA30/01 PA 8260B PH310 | Bromochloromethane | | P1H3106 | | | | | | |
| Bromoform | Bromodichloromethane | EPA 8260B | P1H3106 | | | | | | |
| Promorchane | Bromoform | EPA 8260B | P1H3106 | | | | | | |
| 2-Butanone (MEK) | Bromomethane | | | | | | | | |
| n-Butylbenzene EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 tert-Butylbenzene EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 tert-Butylbenzene EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 8/30/01 Ert-Butylbenzene EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 8/30/01 Ert-Butylbenzene EPA 8260B PIH3106 5.0 ND 1 8/30/0 | 2-Butanone (MEK) | | | | | | | | |
| sec-Butylbenzene EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Carbon Disulfide EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Carbon Disulfide EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Carbon Disulfide EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Chlorothane EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Chlorothane EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Chlorotoluene EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 2-Chiorotoluene EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 4-Chiorotoluene EPA 8260B PIH3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dibromo-schlare EPA 8260B PIH3106 2.0 | n-Butylbenzene | EPA 8260B | | 5.0 | | 1 | 8/30/01 | | |
| tert-Butylbenzene EPA \$260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Carbon Disulfide EPA \$260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Carbon tetrachloride EPA \$260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Chloroform EPA \$260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Chloroform EPA \$260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Chloroform EPA \$260B PIH3106 5.0 ND 1 8/30/01 8/30/01 Chlorotoluene EPA \$260B PIH3106 5.0 ND 1 8/30/01 8/30/01 4-Chiorotoluene EPA \$260B PIH3106 5.0 ND 1 8/30/01 8/30/01 4-Chiorotoluene EPA \$260B PIH3106 5.0 ND 1 8/30/01 8/30/01 12-Dirichorothane EPA \$260B PIH3106 5.0 <t< td=""><td>sec-Butylbenzene</td><td>EPA 8260B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | sec-Butylbenzene | EPA 8260B | | | | | | | |
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| Carbon tetrachloride EPA \$260B P1H3106 5.0 ND 1 8/30/01 8/30/01 Chlorobenzene EPA \$260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Chlorotefhane EPA \$260B P1H3106 5.0 ND 1 8/30/01 8/30/01 Chlorotoluene EPA \$260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Chlorotoluene EPA \$260B P1H3106 5.0 ND 1 8/30/01 8/30/01 4-Chlorotoluene EPA \$260B P1H3106 5.0 ND 1 8/30/01 8/30/01 4-Chlorotoluene EPA \$260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dibromoethane EPA \$260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA \$260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA \$260B P1H3106 2.0 | Carbon Disulfide | EPA 8260B | P1H3106 | 5.0 | | 1 | | | |
| Chlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Chloroethane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 Chloroform EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 4-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 4-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dibromo-3-chloropropane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dibromo-3-chloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA 8260B P1H3106 | Carbon tetrachloride | EPA 8260B | P1H3106 | 5.0 | ND | 1 | | | |
| Chlorochane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 Chloroform EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 4-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 4-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dirbomo-3-chloropropane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichlorothane EPA 8260B P1H3106 < | Chlorobenzene | EPA 8260B | P1H3106 | 2.0 | ND | | | | |
| Chloroform EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Chloromethane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 4-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dibromoethane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dibromoethane (EDB) EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,4-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichlorodifluoromethane EPA 8260B P1H3106 <td>Chloroethane</td> <td>EPA 8260B</td> <td>P1H3106</td> <td>5.0</td> <td>ND</td> <td>1</td> <td></td> <td>8/30/01</td> <td></td> | Chloroethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | | 8/30/01 | |
| Chloromethane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 4-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 Dibromochloromethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dibromo-3-chloropropane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dibromoethane (EDB) EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,4-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichlorothane EPA 8260B | Chloroform | EPA 8260B | P1H3106 | 2.0 | ND | 1 | | | |
| 2-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 4-Chlorotoluene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 Dibromochloromethane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dibromo-3-chloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,4-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethane EPA 8260B <t< td=""><td>Chloromethane</td><td>EPA 8260B</td><td>P1H3106</td><td>5.0</td><td>ND</td><td>1</td><td></td><td>8/30/01</td><td></td></t<> | Chloromethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | | 8/30/01 | |
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| 1,2-Dibromo-3-chloropropane | 4-Chlorotoluene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | | |
| 1,2-Dibromoethane (EDB) | Dibromochloromethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Dibromomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,4-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,4-Dichlorodifluoromethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene | | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,4-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Dichlorodifluoromethane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichloropropane EPA 8260B < | 1,2-Dibromoethane (EDB) | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,3-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,4-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Dichlorodifluoromethane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichloropropane EPA 8260B <t< td=""><td>Dibromomethane</td><td>EPA 8260B</td><td>P1H3106</td><td>2.0</td><td>ND</td><td>1</td><td>8/30/01</td><td>8/30/01</td><td></td></t<> | Dibromomethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,4-Dichlorobenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Dichlorodifluoromethane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B < | 1,2-Dichlorobenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Dichlorodifluoromethane EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 cis-1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 cis-1,3-Dichloropropene EPA 8260B | 1,3-Dichlorobenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 cis-1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropthene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 cis-1,3-Dichloropropene EPA 8260B | 1,4-Dichlorobenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2-Dichloroethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloroethene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 cis-1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 cis-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | Dichlorodifluoromethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1-Dichloroethene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 cis-1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 cis-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | 1,1-Dichloroethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| cis-1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 cis-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2-Hexanone EPA 8260B | 1,2-Dichloroethane | EPA 8260B | P1H3106 | | ND | 1 | 8/30/01 | 8/30/01 | |
| trans-1,2-Dichloroethene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 cis-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Hexachlorobutadiene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Hexanone EPA 8260B <t< td=""><td>1,1-Dichloroethene</td><td>EPA 8260B</td><td>P1H3106</td><td>5.0</td><td>ND</td><td>1</td><td>8/30/01</td><td>8/30/01</td><td></td></t<> | 1,1-Dichloroethene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,3-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 cis-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Hexachlorobutadiene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Hexanone EPA 8260B P1H3106 10 ND 1 8/30/01 8/30/01 Iodomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | | EPA 8260B | P1H3106 | | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,3-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 cis-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Hexachlorobutadiene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Hexanone EPA 8260B P1H3106 10 ND 1 8/30/01 8/30/01 Iodomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | | EPA 8260B | P1H3106 | | ND | 1 | 8/30/01 | 8/30/01 | |
| 2,2-Dichloropropane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 cis-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Hexachlorobutadiene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Hexanone EPA 8260B P1H3106 10 ND 1 8/30/01 8/30/01 Iodomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 cis-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Hexachlorobutadiene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Hexanone EPA 8260B P1H3106 10 ND 1 8/30/01 8/30/01 Iodomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| cis-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 trans-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Hexachlorobutadiene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Hexanone EPA 8260B P1H3106 10 ND 1 8/30/01 8/30/01 Iodomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| trans-1,3-Dichloropropene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Hexachlorobutadiene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Hexanone EPA 8260B P1H3106 10 ND 1 8/30/01 8/30/01 Iodomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | 1,1-Dichloropropene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Ethylbenzene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 Hexachlorobutadiene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Hexanone EPA 8260B P1H3106 10 ND 1 8/30/01 8/30/01 Iodomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | | | | | ND | 1 | 8/30/01 | 8/30/01 | |
| Hexachlorobutadiene EPA 8260B P1H3106 5.0 ND 1 8/30/01 8/30/01 2-Hexanone EPA 8260B P1H3106 10 ND 1 8/30/01 8/30/01 Iodomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 2-Hexanone EPA 8260B P1H3106 10 ND 1 8/30/01 8/30/01 Iodomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | - | | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Iodomethane EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | | | P1H3106 | | | 1 | 8/30/01 | 8/30/01 | |
| | | EPA 8260B | | | ND | 1 | 8/30/01 | 8/30/01 | |
| Isonronylhenzono EDA 9260D DI U2106 2.0 ND 1 0/00/01 0/00/01 | | EPA 8260B | | | ND | 1 | 8/30/01 | 8/30/01 | |
| | Isopropylbenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| p-Isopropyltoluene EPA 8260B P1H3106 2.0 ND 1 8/30/01 8/30/01 | p-Isopropyltoluene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

Report Number:

70211-0-0150

Sampled: 08/20/01

Received: 08/21/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

PKH0356

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0356-01 (LB1 F | Rinse - Water) | | | | | | | |
| Methylene chloride | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1H3106 | 10 | ND | 1 | 8/30/01 | 8/30/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Naphthalene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| n-Propylbenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Styrene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Tetrachloroethene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Toluene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Trichloroethene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Trichlorofluoromethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1H3106 | 10 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Vinyl acetate | EPA 8260B | P1H3106 | 25 | ND | 1 | 8/30/01 | 8/30/01 | V1,L3 |
| Vinyl chloride | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Xylenes, Total | EPA 8260B | P1H3106 | 10 | ND | 1 | 8/30/01 | 8/30/01 | |
| Surrogate: Dibromofluoromethane (80-120 | 0%) | | | 102 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | 106 % | | | | |
| Surrogate: 4-Bromofluorobenzene (80-120 | 9%) | | | 110 % | | | | |



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Law Engineering

4634 S. 36th Place

Client Project ID: 70211-0-0150

Sampled: 08/20/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number: PKH0356

Received: 08/21/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting | Sample | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---------------------------------------|---------------|---------|----------------|-----------------|--------------------|-------------------|------------------|--------------------|
| · · · · · · · · · · · · · · · · · · · | Method | Dutti | Limit ug/kg | Result ug/kg | ractor | Extracted | Analyzeu | Quanners |
| Sample ID: PKH0356-04 (LB-1 | -S-30 - Soil) | | ug/kg | ug/Kg | | | | |
| Acetone | EPA 8260B | P1H2201 | 1000 | ND | 1 | 8/22/01 | 8/28/01 | |
| Benzene | EPA 8260B | P1H2201 | 50 | ND | 1 | 8/22/01 | 8/28/01 | |
| Bromobenzene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Bromochloromethane | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Bromodichloromethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Bromoform | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Bromomethane | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1H2201 | 500 | ND | 1 | 8/22/01 | 8/28/01 | |
| n-Butylbenzene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| sec-Butylbenzene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| tert-Butylbenzene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Carbon Disulfide | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Carbon tetrachloride | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Chlorobenzene | EPA 8260B | P1H2201 | 50 | ND | 1 | 8/22/01 | 8/28/01 | |
| Chloroethane | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Chloroform | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Chloromethane | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 2-Chlorotoluene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 4-Chlorotoluene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Dibromochloromethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Dibromomethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1H2201 | 50 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1H2201 | 100 | . ND | 1 | 8/22/01 | 8/28/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Ethylbenzene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Hexachlorobutadiene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 2-Hexanone | EPA 8260B | P1H2201 | 500 | ND | 1 | 8/22/01 | 8/28/01 | |
| Iodomethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Isopropylbenzene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| p-Isopropyltoluene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |

Melissa Evans Project Manager PKH0356 Page 4 of 35



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Client Project 1D: 70211-0-0150

Sampled: 08/20/01 Received: 08/21/01

Attention: Jim Clarke

G. Claula

Report Number: PKH0356

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | | Reporting | Sample | Dilution | Date | Date | Data |
|--|---------------|---------|-----------|--------|----------|-----------|----------|------------|
| Analyte | Method | Batch | Limit | Result | Factor | Extracted | Analyzed | Qualifiers |
| | | | ug/kg | ug/kg | | | | |
| Sample ID: PKH0356-04 (LB-1 | -S-30 - Soil) | | | | | | | |
| Methylene chloride | EPA 8260B | P1H2201 | 500 | ND | 1 | 8/22/01 | 8/28/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1H2201 | 500 | ND | 1 | 8/22/01 | 8/28/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Naphthalene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| n-Propylbenzene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Styrene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Tetrachloroethene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Toluene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Trichloroethene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Trichlorofluoromethane | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1H2201 | 500 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Vinyl acetate | EPA 8260B | P1H2201 | 1200 | ND | 1 | 8/22/01 | 8/28/01 | V1 |
| Vinyl chloride | EPA 8260B | P1H2201 | 250 | ND | 1 . | 8/22/01 | 8/28/01 | |
| Xylenes, Total | EPA 8260B | P1H2201 | 150 | ND | 1 | 8/22/01 | 8/28/01 | |
| Surrogate: Dibromofluoromethane (70-12 | ?5%) | | | 91.2 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 95.2 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-13 | 0%) | | | 92.8 % | | | | |

The reporting limit for this sample was adjusted by a factor of 0.996 to account for the applicable preparation factor.

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150

Sampled: 08/20/01

Report Number:

PKH0356

Received: 08/21/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| ug/kg ug/kg Sample ID: PKH0356-06 (LB-1-S-50 - Soil) | |
|--|--|
| Acetone EPA 8260B P1H2201 1000 ND 1 8/22/01 8/28/01 | |
| Benzene EPA 8260B P1H2201 50 ND 1 8/22/01 8/28/01 | |
| Bromobenzene EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| Bromochloromethane EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| Bromodichloromethane EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| Bromoform EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| Bromomethane EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| 2-Butanone (MEK) EPA 8260B P1H2201 500 ND 1 8/22/01 8/28/01 | |
| n-Butylbenzene EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| sec-Butylbenzene EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| tert-Butylbenzene EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| Carbon Disulfide EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| Carbon tetrachloride EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| Chlorobenzene EPA 8260B P1H2201 50 ND 1 8/22/01 8/28/01 | |
| Chloroethane EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| Chloroform EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| Chloromethane EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| 2-Chlorotoluene EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| 4-Chlorotoluene EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| Dibromochloromethane EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| 1,2-Dibromo-3-chloropropane EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| 1,2-Dibromoethane (EDB) EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| Dibromomethane EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| 1,2-Dichlorobenzene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| 1,3-Dichlorobenzene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| 1,4-Dichlorobenzene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| Dichlorodifluoromethane EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| 1,1-Dichloroethane EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| 1,2-Dichloroethane EPA 8260B P1H2201 50 ND 1 8/22/01 8/28/01 | |
| 1,1-Dichloroethene EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| cis-1,2-Dichloroethene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| trans-1,2-Dichloroethene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| 1,2-Dichloropropane EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| 1,3-Dichloropropane EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| 2,2-Dichloropropane EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| 1,1-Dichloropropene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| cis-1,3-Dichloropropene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| trans-1,3-Dichloropropene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| Ethylbenzene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| Hexachlorobutadiene EPA 8260B P1H2201 250 ND 1 8/22/01 8/28/01 | |
| 2-Hexanone EPA 8260B P1H2201 500 ND 1 8/22/01 8/28/01 | |
| Iodomethane EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| Isopropylbenzene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |
| p-Isopropyltoluene EPA 8260B P1H2201 100 ND 1 8/22/01 8/28/01 | |

Melissa Evans Project Manager PKH0356 Page 6 of 35



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 08/20/01 Received: 08/21/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0356

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | N# . (1) | D 4.1 | Reporting | Sample | Dilution | Date | Date | Data |
|---|---------------|---------|-----------|--------|----------|-----------|----------|------------|
| Analyte | Method | Batch | Limit | Result | Factor | Extracted | Analyzed | Qualifiers |
| | | | ug/kg | ug/kg | | | | |
| Sample ID: PKH0356-06 (LB-1- | -S-50 - Soil) | | | | | | | |
| Methylene chloride | EPA 8260B | P1H2201 | 500 | ND | 1 | 8/22/01 | 8/28/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1H2201 | 500 | ND | 1 | 8/22/01 | 8/28/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Naphthalene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| n-Propylbenzene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Styrene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Tetrachloroethene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Toluene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Trichloroethene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Trichlorofluoromethane | EPA 8260B | P1H2201 | 250 | ND | 1. | 8/22/01 | 8/28/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1H2201 | 500 | ND | 1 | 8/22/01 | 8/28/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1H2201 | 100 | ND | 1 . | 8/22/01 | 8/28/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1H2201 | 100 | ND | 1 | 8/22/01 | 8/28/01 | |
| Vinyl acetate | EPA 8260B | P1H2201 | 1200 | ND | 1 | 8/22/01 | 8/28/01 | V1 |
| Vinyl chloride | EPA 8260B | P1H2201 | 250 | ND | 1 | 8/22/01 | 8/28/01 | |
| Xylenes, Total | EPA 8260B | P1H2201 | 150 | ND | 1 | 8/22/01 | 8/28/01 | |
| Surrogate: Dibromofluoromethane (70-12 | 25%) | | | 80.2 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 84.0 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-13) | 0%) | | | 87.0 % | | | | |

The reporting limit for this sample was adjusted by a factor of 1.05 to account for the applicable preparation factor.



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place

Client Project ID: 70211-0-0150

Sampled: 08/20/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number: PKH0356

Received: 08/21/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0356-07 (Trip | Blank - Water) | | | ~- - | | | | |
| Acetone | EPA 8260B | P1H3106 | 20 | ND | 1 | 8/30/01 | 8/30/01 | |
| Benzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Bromobenzene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Bromochloromethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Bromodichloromethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Bromoform | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Bromomethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1H3106 | 10 | ND | 1 | 8/30/01 | 8/30/01 | |
| n-Butylbenzene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| sec-Butylbenzene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| tert-Butylbenzene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Carbon Disulfide | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Carbon tetrachloride | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Chlorobenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Chloroethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Chloroform | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Chloromethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 2-Chlorotoluene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 4-Chlorotoluene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Dibromochloromethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Dibromomethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Ethylbenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Hexachlorobutadiene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 2-Hexanone | EPA 8260B | P1H3106 | 10 | ND | 1 | 8/30/01 | 8/30/01 | |
| Iodomethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Isopropylbenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| p-Isopropyltoluene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID: 70

70211-0-0150

Sampled: 08/20/01

Report Number: PI

PKH0356

Received: 08/21/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0356-07 (Trip B | lank - Water) | | | | | | | |
| Methylene chloride | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1H3106 | 10 | ND | 1 | 8/30/01 | 8/30/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Naphthalene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| n-Propylbenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Styrene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Tetrachloroethene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Toluene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Trichloroethene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Trichlorofluoromethane | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1H3106 | 10 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1H3106 | 2.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Vinyl acetate | EPA 8260B | P1H3106 | 25 | ND | 1 | 8/30/01 | 8/30/01 | V1,L3 |
| Vinyl chloride | EPA 8260B | P1H3106 | 5.0 | ND | 1 | 8/30/01 | 8/30/01 | |
| Xylenes, Total | EPA 8260B | P1H3106 | 10 | ND | 1 | 8/30/01 | 8/30/01 | |
| Surrogate: Dibromofluoromethane (80-120 | %) | | | 98.4 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | 105 % | | | | |
| Surrogate: 4-Bromofluorobenzene (80-120) | %) | | | 104 % | | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKH0356

Sampled: 08/20/01

Received: 08/21/01

TOTAL METALS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|--------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0356-02 (LB-1-8 | 5-10 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1H2407 | 5.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Chromium | EPA 6010B | P1H2407 | 1.0 | 21 | 1 | 8/24/01 | 8/28/01 | • |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1H2407 | 2.0 | 21 | 1 | 8/24/01 | 8/28/01 | |
| Nickel | EPA 6010B | P1H2407 | 5.0 | 20 | 1 . | 8/24/01 | 8/28/01 | |
| Zinc | EPA 6010B | P1H2407 | 5.0 | 59 | 1 | 8/24/01 | 8/28/01 | |
| Sample ID: PKH0356-03 (LB-1-8 | S-20 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1H2407 | 5.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Chromium | EPA 6010B | P1H2407 | 1.0 | 15 | 1 | 8/24/01 | 8/28/01 | |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1H2407 | 2.0 | 14 | 1 | 8/24/01 | 8/28/01 | |
| Nickel | EPA 6010B | P1H2407 | 5.0 | 12 | 1 | 8/24/01 | 8/28/01 | |
| Zinc | EPA 6010B | P1H2407 | 5.0 | 38 | 1 | 8/24/01 | 8/28/01 | |
| Sample ID: PKH0356-04 (LB-1-8 | 5-30 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1H2407 | 5.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Chromium | EPA 6010B | P1H2407 | 1.0 | 19 | 1 | 8/24/01 | 8/28/01 | |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1H2407 | 2.0 | 14 | 1 | 8/24/01 | 8/28/01 | |
| Nickel | EPA 6010B | P1H2407 | 5.0 | 11 | 1 | 8/24/01 | 8/28/01 | |
| Zinc | EPA 6010B | P1H2407 | 5.0 | 34 | 1 | 8/24/01 | 8/28/01 | |
| Sample ID: PKH0356-05 (LB-1-8 | S-40 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1H2407 | 5.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Chromium | EPA 6010B | P1H2407 | 1.0 | 15 | 1 | 8/24/01 | 8/28/01 | |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1H2407 | 2.0 | 20 | 1 | 8/24/01 | 8/28/01 | |
| Nickel | EPA 6010B | P1H2407 | 5.0 | 15 | 1 | 8/24/01 | 8/28/01 | |
| Zinc | EPA 6010B | P1H2407 | 5.0 | 46 | 1 | 8/24/01 | 8/28/01 | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/20/01

Report Number:

PKH0356

Received: 08/21/01

TOTAL METALS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|-------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0356-06 (LB-1-S | -50 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1H2407 | 5.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Chromium | EPA 6010B | P1H2407 | 1.0 | 27 | 1 | 8/24/01 | 8/28/01 | |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1H2407 | 2.0 | 18 | . 1 | 8/24/01 | 8/28/01 | |
| Nickel | EPA 6010B | P1H2407 | 5.0 | 17 | 1 . | 8/24/01 | 8/28/01 | |
| Zinc | EPA 6010B | P1H2407 | 5.0 | 52 | 1 | 8/24/01 | 8/28/01 | |



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Law Engineering

4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 08/20/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0356

Received: 08/21/01

TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0356-01 (LB1 I | Rinse - Water) | | | | | | | |
| Arsenic | EPA 200.7 | P1H2320 | 0.050 | ND | 1 | 8/23/01 | 8/28/01 | |
| Chromium | EPA 200.7 | P1H2320 | 0.010 | ND | 1 | 8/23/01 | 8/28/01 | |
| Chromium VI | SM3500CR-D | P1H2119 | 0.025 | ND | 1 | 8/21/01 | 8/21/01 | M2 |
| Copper | EPA 200.7 | P1H2320 | 0.020 | ND | 1 | 8/23/01 | 8/28/01 | |
| Nickel | EPA 200.7 | P1H2320 | 0.050 | ND | 1 | 8/23/01 | 8/28/01 | |
| Zinc | EPA 200.7 | P1H2320 | 0.050 | ND | 1 | 8/23/01 | 8/28/01 | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150

Report Number: PKH0356

Sampled: 08/20/01 Received: 08/21/01

INORGANICS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|----------------------------|----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0356-01 (LB1 | Rinse - Water) | | | | | | | |
| Total Cyanide | SM4500-CN,C-E | P1H2906 | 0.020 mg/kg | ND mg/kg | 1 | 8/28/01 | 8/29/01 | L3,N1 |
| Sample ID: PKH0356-02 (LB- | 1-S-10 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1H2911 | 0.50 | ND | 1 | 8/29/01 | 8/29/01 | M2 |
| Sample ID: PKH0356-03 (LB- | 1-S-20 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1H2911 | 0.50 | ND | 1 | 8/29/01 | 8/29/01 | |
| Sample ID: PKH0356-04 (LB- | 1-S-30 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1H2911 | 0.50 | ND | 1 | 8/29/01 | 8/29/01 | |
| Sample ID: PKH0356-05 (LB- | 1-S-40 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1H2911 | 0.50 | ND | 1 | 8/29/01 | 8/29/01 | |
| Sample ID: PKH0356-06 (LB- | 1-S-50 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1H2911 | 0.50 | ND | 1 | 8/29/01 | 8/29/01 | |

DEL MAR ANALYTICAL, PHOENIX (AZ0426



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150

Sampled: 08/20/01

Attention: Jim Clarke

Report Number:

PKH0356

Received: 08/21/01

MITHUDER ENRIQUE DATE:

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2201 Extracted: 08/22 | /01 | | | | | | | | | |
| Blank Analyzed: 08/28/01 (P1H2201-) | | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | | | | | | | |
| Benzene | ND | 50 | ug/kg | | | | | | | |
| Bromobenzene | ND | 250 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 250 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 100 | ug/kg | | | | | | | |
| Bromoform | ND | 250 | ug/kg | | | | | | | |
| Bromomethane | ND | 250 | ug/kg | | | | | | | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| Carbon Disulfide | ND | 250 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 250 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 50 | ug/kg | | | | | | | |
| Chloroethane | ND | 250 | ug/kg | | | | | | | |
| Chloroform | ND | 100 | ug/kg | | | | | | | |
| Chloromethane | ND | 250 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 100 | ug/kg | | | | | | | |
| Dibromomethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,4-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Dichlorodifluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 50 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 250 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| | | | 2 2 | | | | | | | |

Melissa Evans Project Manager



%REC

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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/20/01

Report Number:

Reporting

PKH0356

Received: 08/21/01

RPD

Data

METHOD BLANK/DC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Spike

Source

| | | Acpoi ang | | Spike | bourte | | /UILLC | | MI D | Data |
|-----------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2201 Extracted: 08/2 | 2/01 | | | | | | | | | |
| Blank Analyzed: 08/28/01 (P1H2201 | -BLK1) | | | | | | | | | |
| 1,1-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 250 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 500 | ug/kg | | | | | | | |
| Iodomethane | ND | 100 | ug/kg | | | | | | | |
| lsopropylbenzene | ND | 100 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 100 | ug/kg | | | | | | | |
| Methylene chloride | ND | 500 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone (M1BK) | ND | 500 | ug/kg | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | | | | |
| Naphthalene | ND | 250 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 100 | ug/kg | | | | | | | |
| Styrene | ND | 100 | ug/kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 100 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 100 | ug/kg | | | | | | | |
| Toluene | ND | 100 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| Trichloroethene | ND | 100 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Vinyl acetate | ND | 1200 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 250 | ug/kg | | | | | | | |
| Xylenes, Total | ND | 150 | ug/kg | | | | | | | |
| Surrogate: Dibromofluoromethane | 1270 | | ug/kg | 1250 | | 102 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1320 | | ug/kg | 1250 | | 106 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1260 | | ug/kg | 1250 | | 101 | 70-130 | | | |
| i e | | | | | | | | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKH0356

Sampled: 08/20/01

Received: 08/21/01

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VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2201 Extracted: 08/22/ | <u>01</u> | | | | | | | | | |
| LCS Analyzed: 08/30/01 (P1H2201-BS | S1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 89.9 | 5-200 | | | |
| Benzene | 802 | 50 | ug/kg | 1000 | | 80.2 | 65-130 | | | |
| Bromobenzene | 874 | 250 | ug/kg | 1000 | | 87.4 | 60-135 | | | |
| Bromochloromethane | 856 | 250 | ug/kg | 1000 | | 85.6 | 60-135 | | | |
| Bromodichloromethane | 799 | 100 | ug/kg | 1000 | | 79.9 | 30-135 | | | |
| Bromoform | 812 | 250 | ug/kg | 1000 | | 81.2 | 60-140 | , | | |
| Bromomethane | 345 | 250 | ug/kg | 1000 | | 34.5 | 10-200 | | | |
| 2-Butanone (MEK) | 885 | 500 | ug/kg | 1000 | | 88.5 | 10-160 | | | |
| n-Butylbenzene | 912 | 250 | ug/kg | 1000 | | 91.2 | 65-125 | | | |
| sec-Butylbenzene | 934 | 250 | ug/kg | 1000 | | 93.4 | 70-135 | | | |
| tert-Butylbenzene | 956 | 250 | ug/kg | 1000 | | 95.6 | 70-130 | | | |
| Carbon Disulfide | 730 | 250 | ug/kg | 1000 | | 73.0 | 20-120 | | | |
| Carbon tetrachloride | 857 | 250 | ug/kg | 1000 | | 85.7 | 70-140 | | | |
| Chlorobenzene | 937 | 50 | ug/kg | 1000 | | 93.7 | 75-125 | | | |
| Chloroethane | 493 | 250 | ug/kg | 1000 | | 49.3 | 10-200 | | | |
| Chloroform | 793 | 100 | ug/kg | 1000 | | 79.3 | 35-135 | | | |
| Chloromethane | 753 | 250 | ug/kg | 1000 | | 75.3 | 10-200 | | | |
| 2-Chlorotoluene | 909 | 250 | ug/kg | 1000 | | 90.9 | 70-135 | | | |
| 4-Chlorotoluene | 921 | 250 | ug/kg | 1000 | | 92.1 | 75-135 | | | |
| Dibromochloromethane | 842 | 100 | ug/kg | 1000 | | 84.2 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 695 | 250 | ug/kg | 1000 | | 69.5 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 893 | 100 | ug/kg | 1000 | | 89.3 | 70-130 | | | |
| Dibromomethane | 801 | 100 | ug/kg | 1000 | | 80.1 | 65-130 | | | |
| 1,2-Dichlorobenzene | 912 | 100 | ug/kg | 1000 | | 91.2 | 70-125 | | | |
| 1,3-Dichlorobenzene | 908 | 100 | ug/kg | 1000 | | 90.8 | 70-125 | | | |
| 1,4-Dichlorobenzene | 926 | 100 | ug/kg | 1000 | | 92.6 | 70-135 | | | |
| Dichlorodifluoromethane | 475 | 250 | ug/kg | 1000 | | 47.5 | 10-185 | | | |
| 1,1-Dichloroethane | 971 | 100 | ug/kg | 1000 | | 97.1 | 60-140 | | | |
| 1,2-Dichloroethane | 786 | 50 | ug/kg | 1000 | | 78.6 | 55-135 | | | |
| 1,1-Dichloroethene | 863 | 250 | ug/kg | 1000 | | 86.3 | 55-145 | | | |
| cis-1,2-Dichloroethene | 955 | 100 | ug/kg | 1000 | | 95.5 | 60-125 | | | |
| trans-1,2-Dichloroethene | 902 | 100 | ug/kg | 1000 | | 90.2 | 70-145 | | | |
| 1,2-Dichloropropane | 845 | 100 | ug/kg | 1000 | | 84.5 | 65-130 | | | |
| 1,3-Dichloropropane | 904 | 100 | ug/kg | 1000 | | 90.4 | 65-130 | | | |
| 2,2-Dichloropropane | 959 | 100 | ug/kg | 1000 | | 95.9 | 60-135 | | | |
| 1,1-Dichloropropene | 866 | 100 | ug/kg | 1000 | | 86.6 | 65-130 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150

Sampled: 08/20/01 Received: 08/21/01

Report Number:

PKH0356

METHOD REANKOOCDATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|---------------|-----------|-------|-------|--------|------|---------------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2201 Extracted: 08/22/0 | <u>)1</u> | | | | | | ÷ | | | |
| LCS Analyzed: 08/30/01 (P1H2201-BS | 1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 812 | 100 | ug/kg | 1000 | | 81.2 | 60-125 | | | |
| trans-1,3-Dichloropropene | 810 | 100 | ug/kg | 1000 | | 81.0 | 50-130 | | | |
| Ethylbenzene | 926 | 100 | ug/kg | 1000 | | 92.6 | 70-125 | | | |
| Hexachlorobutadiene | 1130 | 250 | ug/kg | 1000 | | 113 | 60-125 | | | |
| 2-Hexanone | 846 | 500 | ug/kg | 1000 | | 84.6 | 25-185 | | | |
| Iodomethane | 738 | 100 | ug/kg | 1000 | | 73.8 | 30-155 | | | |
| Isopropylbenzene | 970 | 100 | ug/kg | 1000 | | 97.0 | 70-135 | | | |
| p-Isopropyltoluene | 898 | 100 | ug/kg | 1000 | | 89.8 | 65-130 | | | |
| Methylene chloride | 1050 | 500 | ug/kg | 1000 | | 105 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 831 | 500 | ug/kg | 1000 | | 83.1 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 895 | 250 | ug/kg | 1000 | | 89.5 | 55-135 | | | |
| Naphthalene | 866 | 250 | ug/kg | 1000 | | 86.6 | 45-155 | | | |
| n-Propylbenzene | 904 | 100 | ug/kg | 1000 | | 90.4 | 75-135 | | | |
| Styrene | 934 | 100 | ug/kg | 1000 | | 93.4 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 903 | 250 | ug/kg | 1000 | | 90.3 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 810 | 100 | ug/kg | 1000 | | 81.0 | 60-140 | | | |
| Tetrachloroethene | 882 | 100 | ug/kg | 1000 | | 88.2 | 65-130 | | | |
| Toluene | 885 | 100 | ug/kg | 1000 | | 88.5 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 892 | 250 | ug/kg | 1000 | | 89.2 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 966 | 250 | ug/kg | 1000 | | 96.6 | 55-135 | | | |
| 1,1,1-Trichloroethane | 804 | 100 | ug/kg | 1000 | | 80.4 | 65-135 | | | |
| 1,1,2-Trichloroethane | 861 | 100 | ug/kg | 1000 | | 86.1 | 65-130 | | | |
| Trichloroethene | 873 | 100 | ug/kg | 1000 | | 87.3 | 70-130 | | | |
| Trichlorofluoromethane | 652 | 250 | ug/kg | 1000 | | 65.2 | 10-200 | | | |
| 1,2,3-Trichloropropane | 830 | 500 | ug/kg | 1000 | | 83.0 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 887 | 100 | ug/kg | 1000 | | 88.7 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 875 | 100 | ug/kg | 1000 | | 87.5 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 100 | 25-130 | | | |
| Vinyl chloride | 807 | 250 | ug/kg | 1000 | | 80.7 | 10-200 | | | |
| Xylenes, Total | 2870 | 150 | ug/kg | 3000 | | 95.7 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 1200 | | ug/kg | 1250 | | 96.0 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1200 | | ug/kg | 1250 | | 96.0 | <i>50-135</i> | | | |
| Surrogate: 4-Bromofluorobenzene | 1 23 0 | | ug/kg | 1250 | | 98.4 | 70-130 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKH0356

Sampled: 08/20/01

Received: 08/21/01

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VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|----------------------------------|------------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2201 Extracted: 08/2 | 22/01 | | | | | | | | | |
| LCS Dup Analyzed: 08/30/01 (P1H2 | 2201-BSD1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 88.3 | 5-200 | 1.80 | 35 | |
| Benzene | 854 | 50 | ug/kg | 1000 | | 85.4 | 65-130 | 6.28 | 35 | |
| Bromobenzene | 901 | 250 | ug/kg | 1000 | | 90.1 | 60-135 | 3.04 | 35 | |
| Bromochloromethane | 972 | 250 | ug/kg | 1000 | | 97.2 | 60-135 | 12.7 | 35 | |
| Bromodichloromethane | 821 | 100 | ug/kg | 1000 | | 82.1 | 30-135 | 2.72 | 35 | |
| Bromoform | 847 | 250 | ug/kg | 1000 | | 84.7 | 60-140 | 4.22 | 35 | |
| Bromomethane | 384 | 250 | ug/kg | 1000 | | 38.4 | 10-200 | 10.7 | 35 | |
| 2-Butanone (MEK) | 961 | 500 | ug/kg | 1000 | | 96.1 | 10-160 | 8.23 | 35 | |
| n-Butylbenzene | 908 | 250 | ug/kg | 1000 | | 90.8 | 65-125 | 0.440 | 35 | |
| sec-Butylbenzene | 955 | 250 | ug/kg | 1000 | | 95.5 | 70-135 | 2.22 | 35 | |
| tert-Butylbenzene | 962 | 250 | ug/kg | 1000 | | 96.2 | 70-130 | 0.626 | 35 | |
| Carbon Disulfide | 744 | 250 | ug/kg | 1000 | | 74.4 | 20-120 | 1.90 | 35 | |
| Carbon tetrachloride | 896 | 250 | ug/kg | 1000 | | 89.6 | 70-140 | 4.45 | 35 | |
| Chlorobenzene | 965 | 50 | ug/kg | 1000 | | 96.5 | 75-125 | 2.94 | 35 | |
| Chloroethane | 467 | 250 | ug/kg | 1000 | | 46.7 | 10-200 | 5.42 | 35 | |
| Chloroform | 904 | 100 | ug/kg | 1000 | | 90.4 | 35-135 | 13.1 | 35 | |
| Chloromethane | 766 | 250 | ug/kg | 1000 | | 76.6 | 10-200 | 1.71 | 35 | |
| 2-Chlorotoluene | 942 | 250 | ug/kg | 1000 | | 94.2 | 70-135 | 3.57 | 35 | |
| 4-Chlorotoluene | 942 | 250 | ug/kg | 1000 | | 94.2 | 75-135 | 2.25 | 35 | |
| Dibromochloromethane | 861 | 100 | ug/kg | 1000 | | 86.1 | 35-135 | 2.23 | 35 | |
| 1,2-Dibromo-3-chloropropane | 773 | 250 | ug/kg | 1000 | | 77.3 | 50-155 | 10.6 | 35 | |
| 1,2-Dibromoethane (EDB) | 933 | 100 | ug/kg | 1000 | | 93.3 | 70-130 | 4.38 | 35 | |
| Dibromomethane | 855 | 100 | ug/kg | 1000 | | 85.5 | 65-130 | 6.52 | 35 | |
| 1,2-Dichlorobenzene | 946 | 100 | ug/kg | 1000 | | 94.6 | 70-125 | 3.66 | 35 | |
| 1,3-Dichlorobenzene | 939 | 100 | ug/kg | 1000 | | 93.9 | 70-125 | 3.36 | 35 | |
| 1,4-Dichlorobenzene | 958 | 100 | ug/kg | 1000 | | 95.8 | 70-135 | 3.40 | 35 | |
| Dichlorodifluoromethane | 483 | 250 | ug/kg | 1000 | | 48.3 | 10-185 | 1.67 | 35 | |
| 1,1-Dichloroethane | 952 | 100 | ug/kg | 1000 | | 95.2 | 60-140 | 1.98 | 35 | |
| 1,2-Dichloroethane | 814 | 50 | ug/kg | 1000 | | 81.4 | 55-135 | 3.50 | 35 | |
| 1,1-Dichloroethene | 859 | 250 | ug/kg | 1000 | | 85.9 | 55-145 | 0.465 | 35 | |
| cis-1,2-Dichloroethene | 934 | 100 | ug/kg | 1000 | | 93.4 | 60-125 | 2.22 | 35 | |
| trans-1,2-Dichloroethene | 898 | 100 | ug/kg | 1000 | | 89.8 | 70-145 | 0.444 | 35 | |
| 1,2-Dichloropropane | 860 | 100 | ug/kg | 1000 | | 86.0 | 65-130 | 1.76 | 35 | |
| 1,3-Dichloropropane | 944 | 100 | ug/kg | 1000 | | 94.4 | 65-130 | 4.33 | 35 | |
| 2,2-Dichloropropane | 936 | 100 | ug/kg | 1000 | | 93.6 | 60-135 | 2.43 | 35 | |
| 1,1-Dichloropropene | 900 | 100 | ug/kg | 1000 | | 90.0 | 65-130 | 3.85 | 35 | |

Melissa Evans Project Manager

PKH0356 Page 18 of 35



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150

Sampled: 08/20/01

Report Number:

PKH0356

Received: 08/21/01

METHOD BLANK-QC DATA:

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|---------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2201 Extracted: 08/22/0 | 01 | | | | | | | | | |
| LCS Dup Analyzed: 08/30/01 (P1H220 | 1-BSD1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 818 | 100 | ug/kg | 1000 | | 81.8 | 60-125 | 0.736 | 35 | |
| trans-1,3-Dichloropropene | 822 | 100 | ug/kg | 1000 | | 82.2 | 50-130 | 1.47 | 35 | |
| Ethylbenzene | 939 | 100 | ug/kg | 1000 | | 93.9 | 70-125 | 1.39 | 35 | |
| Hexachlorobutadiene | 855 | 250 | ug/kg | 1000 | | 85.5 | 60-125 | 27.7 | 35 | |
| 2-Hexanone | 864 | 500 | ug/kg | 1000 | | 86.4 | 25-185 | 2.11 | 35 | |
| Iodomethane | 876 | 100 | ug/kg | 1000 | | 87.6 | 30-155 | 17.1 | 35 | |
| Isopropylbenzene | 957 | 100 | ug/kg | 1000 | | 95.7 | 70-135 | 1.35 | 35 | |
| p-Isopropyltoluene | 910 | 100 | ug/kg | 1000 | | 91.0 | 65-130 | 1.33 | 35 | |
| Methylene chloride | 1020 | 500 | ug/kg | 1000 | | 102 | 60-140 | 2.90 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 849 | 500 | ug/kg | 1000 | | 84.9 | 10-175 | 2.14 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 899 | 250 | ug/kg | 1000 | | 89.9 | 55-135 | 0.446 | 35 | |
| Naphthalene | 860 | 250 | ug/kg | 1000 | | 86.0 | 45-155 | 0.695 | 35 | |
| n-Propylbenzene | 942 | 100 | ug/kg | 1000 | | 94.2 | 75-135 | 4.12 | 35 | |
| Styrene | 933 | 100 | ug/kg | 1000 | | 93.3 | 70-130 | 0.107 | 35 | |
| 1,1,1,2-Tetrachloroethane | 925 | 250 | ug/kg | 1000 | | 92.5 | 70-130 | 2.41 | 35 | |
| 1,1,2,2-Tetrachloroethane | 848 | 100 | ug/kg | 1000 | | 84.8 | 60-140 | 4.58 | 35 | |
| Tetrachloroethene | 913 | 100 | ug/kg | 1000 | | 91.3 | 65-130 | 3.45 | 35 | |
| Toluene | 925 | 100 | ug/kg | 1000 | | 92.5 | 70-125 | 4.42 | 35 | |
| 1,2,3-Trichlorobenzene | 853 | 250 | ug/kg | 1000 | | 85.3 | 60-135 | 4.47 | 35 | |
| 1,2,4-Trichlorobenzene | 946 | 250 | ug/kg | 1000 | | 94.6 | 55-135 | 2.09 | 35 | |
| 1,1,1-Trichloroethane | 850 | 100 | ug/kg | 1000 | | 85.0 | 65-135 | 5.56 | 35 | |
| 1,1,2-Trichloroethane | 899 | 100 | ug/kg | 1000 | | 89.9 | 65-130 | 4.32 | 35 | |
| Trichloroethene | 898 | 100 | ug/kg | 1000 | | 89.8 | 70-130 | 2.82 | 35 | |
| Trichlorofluoromethane | 661 | 250 | ug/kg | 1000 | | 66.1 | 10-200 | 1.37 | 35 | |
| 1,2,3-Trichloropropane | 873 | 500 | ug/kg | 1000 | | 87.3 | 60-150 | 5.05 | 35 | |
| 1,2,4-Trimethylbenzene | 918 | 100 | ug/kg | 1000 | | 91.8 | 75-130 | 3.43 | 35 | |
| 1,3,5-Trimethylbenzene | 898 | 100 | ug/kg | 1000 | | 89.8 | 70-130 | 2.59 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 101 | 25-130 | 0.995 | 35 | |
| Vinyl chloride | 831 | 250 | ug/kg | 1000 | | 83.1 | 10-200 | 2.93 | 35 | |
| Xylenes, Total | 2870 | 150 | ug/kg | 3000 | | 95.7 | 70-130 | 0.00 | 35 | |
| Surrogate: Dibromofluoromethane | 1300 | | ug/kg | 1250 | | 104 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1270 | | ug/kg | 1250 | | 102 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1270 | | ug/kg | 1250 | | 102 | 70-130 | | | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150

Report Number: PKH0356

Sampled: 08/20/01

Received: 08/21/01

METHOD BLANK OC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|---------------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2201 Extracted: 08/22 | <u>/01</u> | | | | | | | | | |
| Matrix Spike Analyzed: 08/30/01 (P1 | H2201-MS1) | | | | Source: P | KH0384- | 01 | | | |
| Acetone | 1120 | 1000 | ug/kg | 1000 | ND | 112 | 5-200 | | | |
| Benzene | 812 | 50 | ug/kg | 1000 | ND | 81.2 | 65-130 | | | |
| Bromobenzene | 918 | 250 | ug/kg | 1000 | ND | 91.8 | 60-135 | | | |
| Bromochloromethane | 794 | 250 | ug/kg | 1000 | ND | 79.4 | 60-135 | | | |
| Bromodichloromethane | 788 | 100 | ug/kg | 1000 | ND | 78.8 | 30-135 | | | • |
| Bromoform | 914 | 250 | ug/kg | 1000 | ND | 91.4 | 60-140 | | | |
| Bromomethane | ND | 250 | ug/kg | 1000 | ND | 20.2 | 10-200 | | | |
| 2-Butanone (MEK) | 1100 | 500 | ug/kg | 1000 | ND | 110 | 10-160 | | | |
| n-Butylbenzene | 910 | 250 | ug/kg | 1000 | ND | 91.0 | 65-125 | | | |
| sec-Butylbenzene | 937 | 250 | ug/kg | 1000 | ND | 93.7 | 70-135 | | | |
| tert-Butylbenzene | 972 | 250 | ug/kg | 1000 | ND | 97.2 | 70-130 | | | |
| Carbon Disulfide | 546 | 250 | ug/kg | 1000 | ND | 54.6 | 20-120 | | | |
| Carbon tetrachloride | 896 | 250 | ug/kg | 1000 | ND | 89.6 | 70-140 | | | |
| Chlorobenzene | 942 | 50 | ug/kg | 1000 | ND | 94.2 | 75-125 | | | |
| Chloroethane | ND | 250 | ug/kg | 1000 | ND | 1 7 .7 | 10-200 | | | |
| Chloroform | 883 | 100 | ug/kg | 1000 | ND | 88.3 | 35-135 | | | |
| Chloromethane | 588 | 250 | ug/kg | 1000 | ND | 58.8 | 10-200 | | | |
| 2-Chlorotoluene | 914 | 250 | ug/kg | 1000 | ND | 91.4 | 70-135 | | | |
| 4-Chlorotoluene | 913 | 250 | ug/kg | 1000 | ND | 91.3 | 75-135 | | | |
| Dibromochloromethane | 922 | 100 | ug/kg | 1000 | ND | 92.2 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 963 | 250 | ug/kg | 1000 | ND | 96.3 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 1010 | 100 | ug/kg | 1000 | ND | 101 | 70-130 | | | |
| Dibromomethane | 824 | 100 | ug/kg | 1000 | ND | 82.4 | 65-130 | | | |
| 1,2-Dichlorobenzene | 923 | 100 | ug/kg | 1000 | ND | 92.3 | 70-125 | | | |
| 1,3-Dichlorobenzene | 910 | 100 | ug/kg | 1000 | ND | 91.0 | 70-125 | | | |
| 1,4-Dichlorobenzene | 932 | 100 | ug/kg | 1000 | ND | 93.2 | 70-135 | | | |
| Dichlorodifluoromethane | 283 | 250 | ug/kg | 1000 | ND | 28.3 | 10-185 | | | |
| 1,1-Dichloroethane | 874 | 100 | ug/kg | 1000 | ND | 87.4 | 60-140 | | | |
| 1,2-Dichloroethane | 782 | 50 | ug/kg | 1000 | ND | 78.2 | 55-135 | | | |
| 1,1-Dichloroethene | 708 | 250 | ug/kg | 1000 | ND | 70.8 | 55-145 | | | |
| cis-1,2-Dichloroethene | 874 | 100 | ug/kg | 1000 | ND | 87.4 | 60-125 | | | |
| trans-1,2-Dichloroethene | 882 | 100 | ug/kg | 1000 | ND | 88.2 | 70-145 | | | |
| 1,2-Dichloropropane | 780 | 100 | ug/kg | 1000 | ND | 78.0 | 65-130 | | | |
| 1,3-Dichloropropane | 971 | 100 | ug/kg | 1000 | ND | 97.1 | 65-130 | | | |
| 2,2-Dichloropropane | 860 | 100 | ug/kg | 1000 | ND | 86.0 | 60-135 | | | |
| 1,1-Dichloropropene | 884 | 100 | ug/kg | 1000 | ND | 88.4 | 65-130 | | | |
| | | | | | | | • | | | |

Melissa Evans Project Manager



%REC

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 08/20/01 Received: 08/21/01

RPD

Data

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

Reporting

PKH0356

NEURODBEANKIOO DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Spike

Source

| Batch: P1H2201 Extracted: 08/22/01 Matrix Spike Analyzed: 08/30/01 (P1H2201-MS1) Source: PKH0384-01 cis-1,3-Dichloropropene 755 100 ug/kg 1000 ND 75.5 60-125 trans-1,3-Dichloropropene 864 100 ug/kg 1000 ND 86.4 50-130 Ethylbenzene 932 100 ug/kg 1000 ND 93.2 70-125 Hexachlorobutadiene 1070 250 ug/kg 1000 ND 107 60-125 2-Hexanone 1180 500 ug/kg 1000 ND 40.9 30-155 Isopropylbenzene 949 100 ug/kg 1000 ND 94.9 70-135 p-Isopropyltoluene 883 100 ug/kg 100 ND 88.3 65-130 Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND 98.1 55-135 Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 |
|--|
| cis-1,3-Dichloropropene 755 100 ug/kg 1000 ND 75.5 60-125 trans-1,3-Dichloropropene 864 100 ug/kg 1000 ND 86.4 50-130 Ethylbenzene 932 100 ug/kg 1000 ND 93.2 70-125 Hexachlorobutadiene 1070 250 ug/kg 1000 ND 107 60-125 2-Hexanone 1180 500 ug/kg 1000 ND 118 25-185 Iodomethane 409 100 ug/kg 1000 ND 40.9 30-155 Isopropylbenzene 949 100 ug/kg 1000 ND 94.9 70-135 p-Isopropyltoluene 883 100 ug/kg 1000 ND 88.3 65-130 Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND ND 86.1 60-140 4-Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 |
| trans-1,3-Dichloropropene 864 100 ug/kg 1000 ND 86.4 50-130 Ethylbenzene 932 100 ug/kg 1000 ND 93.2 70-125 Hexachlorobutadiene 1070 250 ug/kg 1000 ND 107 60-125 2-Hexanone 1180 500 ug/kg 1000 ND 118 25-185 Iodomethane 409 100 ug/kg 1000 ND 40.9 30-155 Isopropylbenzene 949 100 ug/kg 1000 ND 94.9 70-135 p-Isopropyltoluene 883 100 ug/kg 1000 ND 88.3 65-130 Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND 86.1 60-140 4-Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 ND 98.1 55-135 |
| Ethylbenzene 932 100 ug/kg 1000 ND 93.2 70-125 Hexachlorobutadiene 1070 250 ug/kg 1000 ND 107 60-125 2-Hexanone 1180 500 ug/kg 1000 ND 118 25-185 Iodomethane 409 100 ug/kg 1000 ND 40.9 30-155 Isopropylbenzene 949 100 ug/kg 1000 ND 94.9 70-135 p-Isopropyltoluene 883 100 ug/kg 1000 ND 88.3 65-130 Methylene chloride 861 500 ug/kg 1000 ND 86.1 60-140 4-Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND 98.1 55-135 Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 ND 98.1 55-135 |
| Hexachlorobutadiene 1070 250 ug/kg 1000 ND 107 60-125 2-Hexanone 1180 500 ug/kg 1000 ND 118 25-185 Iodomethane 409 100 ug/kg 1000 ND 40.9 30-155 Isopropylbenzene 949 100 ug/kg 1000 ND 94.9 70-135 p-Isopropyltoluene 883 100 ug/kg 1000 ND 88.3 65-130 Methylene chloride 861 500 ug/kg 1000 ND 86.1 60-140 4-Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND 98.1 55-135 Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 ND 98.1 55-135 |
| 2-Hexanone 1180 500 ug/kg 1000 ND 118 25-185 Iodomethane 409 100 ug/kg 1000 ND 40.9 30-155 Isopropylbenzene 949 100 ug/kg 1000 ND 94.9 70-135 p-Isopropyltoluene 883 100 ug/kg 1000 ND 88.3 65-130 Methylene chloride 861 500 ug/kg 1000 ND 86.1 60-140 4-Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND 98.1 55-135 Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 ND 98.1 55-135 |
| Iodomethane 409 100 ug/kg 1000 ND 40.9 30-155 Isopropylbenzene 949 100 ug/kg 1000 ND 94.9 70-135 p-Isopropyltoluene 883 100 ug/kg 1000 ND 88.3 65-130 Methylene chloride 861 500 ug/kg 1000 ND 86.1 60-140 4-Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND 101 10-175 Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 ND 98.1 55-135 |
| Isopropylbenzene 949 100 ug/kg 1000 ND 94.9 70-135 p-Isopropyltoluene 883 100 ug/kg 1000 ND 88.3 65-130 Methylene chloride 861 500 ug/kg 1000 ND 86.1 60-140 4-Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND 101 10-175 Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 ND 98.1 55-135 |
| p-Isopropyltoluene 883 100 ug/kg 1000 ND 88.3 65-130 Methylene chloride 861 500 ug/kg 1000 ND 86.1 60-140 4-Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND 101 10-175 Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 ND 98.1 55-135 |
| Methylene chloride 861 500 ug/kg 1000 ND 86.1 60-140 4-Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND 101 10-175 Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 ND 98.1 55-135 |
| 4-Methyl-2-pentanone (MIBK) 1010 500 ug/kg 1000 ND 101 10-175 Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 ND 98.1 55-135 |
| Methyl-tert-butyl Ether (MTBE) 981 250 ug/kg 1000 ND 98.1 55-135 |
| |
| |
| Naphthalene 993 250 ug/kg 1000 ND 99.3 45-155 |
| n-Propylbenzene 913 100 ug/kg 1000 ND 91.3 75-135 |
| Styrene 899 100 ug/kg 1000 ND 89.9 70-130 |
| 1,1,1,2-Tetrachloroethane 984 250 ug/kg 1000 ND 98.4 70-130 |
| 1,1,2,2-Tetrachloroethane 1020 100 ug/kg 1000 ND 102 60-140 |
| Tetrachloroethene 971 100 ug/kg 1000 ND 97.1 65-130 |
| Toluene 948 100 ug/kg 1000 ND 94.8 70-125 |
| 1,2,3-Trichlorobenzene 908 250 ug/kg 1000 ND 90.8 60-135 |
| 1,2,4-Trichlorobenzene 990 250 ug/kg 1000 ND 99.0 55-135 |
| 1,1,1-Trichloroethane 837 100 ug/kg 1000 ND 83.7 65-135 |
| 1,1,2-Trichloroethane 953 100 ug/kg 1000 ND 95.3 65-130 |
| Trichloroethene 895 100 ug/kg 1000 ND 89.5 70-130 |
| Trichlorofluoromethane 268 250 ug/kg 1000 ND 26.8 10-200 |
| 1,2,3-Trichloropropane 1060 500 ug/kg 1000 ND 106 60-150 |
| 1,2,4-Trimethylbenzene 887 100 ug/kg 1000 ND 88.7 75-130 |
| 1,3,5-Trimethylbenzene 883 100 ug/kg 1000 ND 88.3 70-130 |
| Vinyl acetate ND 1200 ug/kg 1000 ND 29.1 25-130 |
| Vinyl chloride 596 250 ug/kg 1000 ND 59.6 10-200 |
| Xylenes, Total 2780 150 ug/kg 3000 ND 92.7 70-130 |
| Surrogate: Dibromofluoromethane 1230 ug/kg 1250 98.4 70-125 |
| Surrogate: Toluene-d8 1280 ug/kg 1250 102 50-135 |
| Surrogate: 4-Bromofluorobenzene 1240 ug/kg 1250 99.2 70-130 |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/20/01

Report Number:

PKH0356

Received: 08/21/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3106 Extracted: 08/30/ | 01 | | | | | | | | | |
| Blank Analyzed: 08/30/01 (P1H3106-F | BLK1) | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/I | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/I | | | | | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager

PKH0356 Page 22 of 35



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Client Project ID:

70211-0-0150

Sampled: 08/20/01

Attention: Jim Clarke

Report Number:

PKH0356

Received: 08/21/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------|-------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3106 Extracted | l: 08/30/01 | | | | | | | | | |
| Blank Analyzed: 08/30/01 (P1 | H3106-BLK1) | | | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| lodomethane | ND | 2.0 | ug/l | | | | | | | |
| lsopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | V1,L3 |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| Surrogate: Dibromofluoromethane | 25.5 | | ug/l | 25.0 | | 102 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.8 | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.6 | | ug/l | 25.0 | | 106 | 80-120 | | | |

Melissa Evans Project Manager

PKH0356 Page 23 of 35



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKH0356

Sampled: 08/20/01

Received: 08/21/01

NETHOD RLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | , | RPD | Data |
|-----------------------------------|------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3106 Extracted: 08/30 | <u>/01</u> | | | | | | | | | |
| LCS Analyzed: 08/30/01 (P1H3106-B | S1) | | | | | | | | | |
| Acetone | 35.8 | 20 | ug/l | 25.0 | | 143 | 30-200 | | | |
| Benzene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 80-120 | | | |
| Bromobenzene | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| Bromochloromethane | 25.5 | 5.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Bromodichloromethane | 21.5 | 2.0 | ug/l | 25.0 | | 86.0 | 80-130 | | | |
| Bromoform | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 60-140 | | | |
| Bromomethane | 25.5 | 5.0 | ug/l | 25.0 | | 102 | 60-150 | | | |
| 2-Butanone (MEK) | 29.9 | 10 | ug/l | 25.0 | | 120 | 30-185 | | | |
| n-Butylbenzene | 23.6 | 5.0 | ug/l | 25.0 | | 94.4 | 75-130 | | | |
| sec-Butylbenzene | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 80-125 | | | |
| tert-Butylbenzene | 25.7 | 5.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| Carbon Disulfide | 24.4 | 5.0 | ug/l | 25.0 | | 97.6 | 65-120 | | | |
| Carbon tetrachloride | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 75-150 | | | |
| Chlorobenzene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| Chloroethane | 28.0 | 5.0 | ug/l | 25.0 | | 112 | 80-125 | | | |
| Chloroform | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 80-120 | | | |
| Chloromethane | 21.2 | 5.0 | ug/l | 25.0 | | 84.8 | 60-125 | | | |
| 2-Chlorotoluene | 25.4 | 5.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 4-Chlorotoluene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| Dibromochloromethane | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 70-150 | | | |
| 1,2-Dibromo-3-chloropropane | 23.3 | 5.0 | ug/l | 25.0 | | 93.2 | 50-145 | | | |
| 1,2-Dibromoethane (EDB) | 27.3 | 2.0 | ug/l | 25.0 | | 109 | 75-120 | | | |
| Dibromomethane | 22.3 | 2.0 | ug/l | 25.0 | | 89.2 | 80-120 | | | |
| 1,2-Dichlorobenzene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| 1,3-Dichlorobenzene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | | | |
| 1,4-Dichlorobenzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| Dichlorodifluoromethane | 19.4 | 5.0 | ug/l | 25.0 | | 77.6 | 25-140 | | | |
| 1,1-Dichloroethane | 28.6 | 2.0 | ug/l | 25.0 | | 114 | 80-120 | | | |
| 1,2-Dichloroethane | 21.5 | 2.0 | ug/l | 25.0 | | 86.0 | 80-120 | | | |
| 1,1-Dichloroethene | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| cis-1,2-Dichloroethene | 28.6 | 2.0 | ug/l | 25.0 | | 114 | 80-120 | | | |
| trans-1,2-Dichloroethene | 29.2 | 2.0 | ug/l | 25.0 | | 117 | 80-120 | | | |
| 1,2-Dichloropropane | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 80-120 | | | |
| 1,3-Dichloropropane | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| 2,2-Dichloropropane | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 75-135 | | | |
| 1,1-Dichloropropene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (588) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/20/01

Report Number:

PKH0356

Received: 08/21/01

MOTOR BANKIOCHANK

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3106 Extracted: 08/30/ | <u>/01</u> | | | | | | | | | |
| LCS Analyzed: 08/30/01 (P1H3106-BS | S1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 20.4 | 2.0 | ug/l | 25.0 | | 81.6 | 80-120 | | | |
| trans-1,3-Dichloropropene | 22.3 | 2.0 | ug/l | 25.0 | | 89.2 | 80-120 | | | |
| Ethylbenzene | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| Hexachlorobutadiene | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 60-145 | | | |
| 2-Hexanone | 27.8 | 10 | ug/l | 25.0 | | 111 | 50-170 | | | |
| lodomethane | 34.7 | 2.0 | ug/l | 25.0 | | 139 | 40-155 | | | |
| Isopropylbenzene | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| p-Isopropyltoluene | 23.7 | 2.0 | ug/l | 25.0 | | 94.8 | 80-120 | | | |
| Methylene chloride | 29.5 | 5.0 | ug/l | 25.0 | | 118 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 25.4 | 10 | ug/l | 25.0 | | 102 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 29.9 | 5.0 | ug/l | 25.0 | | 120 | 75-135 | | | |
| Naphthalene | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 70-130 | | | |
| n-Propylbenzene | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 80-120 | | | |
| Styrene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 26.2 | 5.0 | ug/l | 25.0 | | 105 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 70-130 | | | |
| Tetrachloroethene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-125 | | | |
| Toluene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 25.7 | 5.0 | ug/l | 25.0 | | 103 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 26.4 | 5.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 1,1,1-Trichloroethane | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 80-120 | | | |
| 1,1,2-Trichloroethane | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| Trichloroethene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | | | |
| Trichlorofluoromethane | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 75-150 | | | |
| 1,2,3-Trichloropropane | 26.0 | 10 | ug/l | 25.0 | | 104 | 65-135 | | | |
| 1,2,4-Trimethylbenzene | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 80-120 | | | |
| Vinyl acetate | 40.0 | 25 | ug/l | 25.0 | | 160 | 40-120 | | | V1,L3 |
| Vinyl chloride | 23.5 | 5.0 | ug/l | 25.0 | | 94.0 | 80-120 | | | |
| Xylenes, Total | 75.2 | 10 | ug/l | 75.0 | | 100 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 25.8 | | ug/l | 25.0 | | 103 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.7 | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 25.5 | | ug/l | 25.0 | | 102 | 80-120 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 7079-1843 (658) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 7

70211-0-0150

Report Number:

PKH0356

Sampled: 08/20/01

Received: 08/21/01

METHOD BLANK QUIDATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|---------------|-------|-----------|---------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3106 Extracted: 08/30 | 0/01 | | | | | | | | | |
| Matrix Spike Analyzed: 08/31/01 (P1 | H3106-MS1) | | | | Source: F | KH0441- | 03 | | | |
| Acetone | 27.5 | 20 | ug/l | 25.0 | ND | 110 | 5-200 | | | |
| Benzene | 21.0 | 2.0 | ug/l | 25.0 | ND | 84.0 | 80-120 | | | |
| Bromobenzene | 25,4 | 5.0 | ug/l | 25.0 | ND | 102 | 80-120 | | | |
| Bromochloromethane | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 60-135 | | | |
| Bromodichloromethane | 20.0 | 2.0 | ug/l | 25.0 | ND | 80.0 | 80-120 | | | |
| Bromoform | 21.5 | 5.0 | ug/l | 25.0 | ND | 86.0 | 40-140 | | | |
| Bromomethane | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 25-165 | | | |
| 2-Butanone (MEK) | 26.1 | 10 | ug/l | 25.0 | ND | 104 | 10-160 | | | |
| n-Butylbenzene | 20.6 | 5.0 | ug/l | 25.0 | ND | 82.4 | 75-135 | | | |
| sec-Butylbenzene | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 80-135 | | | |
| tert-Butylbenzene | 24.6 | 5.0 | ug/l | 25.0 | ND | 98.4 | 80-125 | | | |
| Carbon Disulfide | 21.8 | 5.0 | ug/l | 25.0 | ND | 87.2 | 20-120 | | | |
| Carbon tetrachloride | 23.4 | 5.0 | ug/l | 25.0 | ND | 93.6 | 80-145 | | | |
| Chlorobenzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | | | |
| Chloroethane | 27.2 | 5.0 | ug/l | 25.0 | ND | 109 | 30-150 | | | |
| Chloroform | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 80-125 | | | |
| Chloromethane | 19.4 | 5.0 | ug/l | 25.0 | ND | 77.6 | 15-140 | | | |
| 2-Chlorotoluene | 24.0 | 5.0 | ug/l | 25.0 | ND | 96.0 | 80-124 | | | |
| 4-Chlorotoluene | 24.6 | 5.0 | ug/l | 25.0 | ND | 98.4 | 80-125 | | | |
| Dibromochloromethane | 22.3 | 2.0 | ug/l | 25.0 | ND | 89.2 | 75-135 | | | |
| 1,2-Dibromo-3-chloropropane | 22.4 | 5.0 | ug/l | 25.0 | ND | 89.6 | 25-185 | | | |
| 1,2-Dibromoethane (EDB) | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 45-145 | | | |
| Dibromomethane | 20.8 | 2.0 | ug/l | 25.0 | ND | 83.2 | 55-140 | | | |
| 1,2-Dichlorobenzene | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 80-120 | | | |
| 1,3-Dichlorobenzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 80-120 | | | |
| 1,4-Dichlorobenzene | 23,6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 80-120 | | | |
| Dichlorodifluoromethane | 18.0 | 5.0 | ug/l | 25.0 | ND | 72.0 | 25-145 | | | |
| 1,1-Dichloroethane | 24.7 | 2.0 | ug/l | 25.0 | ND | 98.8 | 75-120 | | | |
| 1,2-Dichloroethane | 20.4 | 2.0 | ug/l | 25.0 | ND | 81.6 | 60-135 | | | |
| 1,1-Dichloroethene | 24.3 | 5.0 | ug/l | 25.0 | ND | 97.2 | 55-120 | | | |
| cis-1,2-Dichloroethene | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 75-120 | | | |
| trans-1,2-Dichloroethene | 25,3 | 2.0 | ug/l | 25.0 | ND | 101 | 65-120 | | | |
| 1,2-Dichloropropane | 20.7 | 2.0 | ug/l | 25.0 | ND | 82.8 | 80-125 | | | |
| 1,3-Dichloropropane | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 55-140 | | | |
| 2,2-Dichloropropane | 22.1 | 2.0 | ug/i | 25.0 | ND | 88.4 | 45-165 | | | |
| 1,1-Dichloropropene | 22.4 | 2.0 | ug/l | 25.0 | ND | 89.6 | 80-120 | | | |
| | | | ·· <i>O</i> - | | | 07.0 | 30-120 | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/20/01 Received: 08/21/01

Report Number:

PKH0356

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------|---------------|-----------|-------|-------|-----------|---------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3106 Extracted: 08 | 3/30/01 | | | | | | | | | |
| Matrix Spike Analyzed: 08/31/01 | (P1H3106-MS1) | | | | Source: P | KH0441- | 03 | | | |
| cis-1,3-Dichloropropene | 18.6 | 2.0 | ug/l | 25.0 | ND | 74.4 | 80-120 | | | M2 |
| trans-1,3-Dichloropropene | 21.0 | 2.0 | ug/l | 25.0 | ND | 84.0 | 70-120 | | | |
| Ethylbenzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 80-120 | | | |
| Hexachlorobutadiene | 23.4 | 5.0 | ug/l | 25.0 | ND | 93.6 | 80-135 | | | |
| 2-Hexanone | 24.9 | 10 | ug/l | 25.0 | ND | 99.6 | 25-185 | | | |
| Iodomethane | 31.8 | 2.0 | ug/l | 25.0 | ND | 127 | 30-155 | | | |
| Isopropylbenzene | 21.5 | 2.0 | ug/l | 25.0 | ND | 86.0 | 80-125 | | | |
| p-Isopropyltoluene | 21.3 | 2.0 | ug/l | 25.0 | ND | 85.2 | 80-125 | | | |
| Methylene chloride | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 55-125 | | | |
| 4-Methyl-2-pentanone (MIBK) | 21.1 | 10 | ug/l | 25.0 | ND | 84.4 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 22.3 | 5.0 | ug/l | 25.0 | ND | 89.2 | 55-135 | | | |
| Naphthalene | 20.7 | 5.0 | ug/l | 25.0 | ND | 82.8 | 15-160 | | | |
| n-Propylbenzene | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 80-130 | | | |
| Styrene | 21.9 | 2.0 | ug/l | 25.0 | ND | 87.6 | 60-135 | | | |
| 1,1,1,2-Tetrachloroethane | 24.0 | 5.0 | ug/l | 25.0 | ND | 96.0 | 80-135 | | | |
| 1,1,2,2-Tetrachloroethane | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 35-150 | | | |
| Tetrachloroethene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 80-120 | | | |
| Toluene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 18.2 | 5.0 | ug/l | 25.0 | ND | 72.8 | 45-145 | | | |
| 1,2,4-Trichlorobenzene | 20.0 | 5.0 | ug/l | 25.0 | ND | 80.0 | 65-130 | | | |
| 1,1,1-Trichloroethane | 22.5 | 2.0 | ug/l | 25.0 | ND | 90.0 | 80-120 | | | |
| 1,1,2-Trichloroethane | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 55-145 | | | |
| Trichloroethene | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 80-120 | | | |
| Trichlorofluoromethane | 23.1 | 5.0 | ug/l | 25.0 | ND | 92.4 | 70-145 | | | |
| 1,2,3-Trichloropropane | 27.1 | 10 | ug/l | 25.0 | ND | 108 | 20-160 | | | |
| 1,2,4-Trimethylbenzene | 21.6 | 2.0 | ug/l | 25.0 | ND | 86.4 | 70-135 | | | |
| 1,3,5-Trimethylbenzene | 22.2 | 2.0 | ug/l | 25.0, | ND | 88.8 | 80-125 | | | |
| Vinyl acetate | 27.2 | 25 | ug/l | 25.0 | ND | 109 | 25-130 | | | |
| Vinyl chloride | 22.3 | 5.0 | ug/l | 25.0 | ND | 89.2 | 25-135 | | | |
| Xylenes, Total | 67.3 | 10 | ug/l | 75.0 | ND | 89.7 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 27.5 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.9 | | ug/l | 25.0 | | 112 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 28.2 | | ug/l | 25.0 | | 113 | 80-120 | | | |



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/20/01

Report Number:

PKH0356

Received: 08/21/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|---------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3106 Extracted: 08/30 | <u>/01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 08/31/01 | (P1H3106-M | ISD1) | | | Source: P | KH0441- | 03 | | | |
| Acetone | 25.4 | 20 | ug/l | 25.0 | ND | 102 | 5-200 | 7.94 | 20 | |
| Benzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 80-120 | 9.09 | 20 | |
| Bromobenzene | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 80-120 | 3.10 | 20 | |
| Bromochloromethane | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 60-135 | 2.02 | 20 | |
| Bromodichloromethane | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 80-120 | 14.4 | 20 | |
| Bromoform | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 40-140 | 8.89 | 20 | |
| Bromomethane | 27.1 | 5.0 | ug/l | 25.0 | ND | 108 | 25-165 | 7.66 | 20 | |
| 2-Butanone (MEK) | 24.9 | 10 | ug/l | 25.0 | ND | 99.6 | 10-160 | 4.71 | 20 | |
| n-Butylbenzene | 21.3 | 5.0 | ug/l | 25.0 | ND | 85.2 | 75-135 | 3.34 | 20 | |
| sec-Butylbenzene | 24.0 | 5.0 | ug/l | 25.0 | ND | 96.0 | 80-135 | 2.11 | 20 | |
| tert-Butylbenzene | 25.7 | 5.0 | ug/l | 25.0 | ND | 103 | 80-125 | 4.37 | 20 | |
| Carbon Disulfide | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 20-120 | 7.51 | 20 | |
| Carbon tetrachloride | 25.6 | 5.0 | ug/l | 25.0 | ND | 102 | 80-145 | 8.98 | 20 | |
| Chlorobenzene | 26.9 | 2.0 | ug/l | 25.0 | ND | 108 | 80-120 | 8.12 | 20 | |
| Chloroethane | 29.3 | 5.0 | ug/l | 25.0 | ND | 117 | 30-150 | 7.43 | 20 | |
| Chloroform | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 80-125 | 6.64 | 20 | |
| Chloromethane | 20.3 | 5.0 | ug/l | 25.0 | ND | 81.2 | 15-140 | 4.53 | 20 | |
| 2-Chlorotoluene | 25.9 | 5.0 | ug/l | 25.0 | ND | 104 | 80-124 | 7.62 | 20 | |
| 4-Chlorotoluene | 25,8 | 5.0 | ug/l | 25.0 | ND | 103 | 80-125 | 4.76 | 20 | |
| Dibromochloromethane | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 75-135 | 10.6 | 20 | |
| 1,2-Dibromo-3-chloropropane | 20.0 | 5.0 | ug/l | 25.0 | ND | 80.0 | 25-185 | 11.3 | 20 | |
| 1,2-Dibromoethane (EDB) | 26.6 | 2.0 | ug/l | 25.0 | ND | 106 | 45-145 | 3.83 | 20 | |
| Dibromomethane | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 55-140 | 11.3 | 20 | |
| 1,2-Dichlorobenzene | 24.7 | 2.0 | ug/l | 25.0 | ND | 98.8 | 80-120 | 8.88 | 20 | |
| 1,3-Dichlorobenzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | 7.53 | 20 | |
| 1,4-Dichlorobenzene | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | 8.91 | 20 | |
| Dichlorodifluoromethane | 16.1 | 5.0 | ug/l | 25.0 | ND | 64.4 | 25-145 | 11.1 | 20 | |
| 1,1-Dichloroethane | 28.4 | 2.0 | ug/l | 25.0 | ND | 114 | 75-120 | 13.9 | 20 | |
| 1,2-Dichloroethane | 22.1 | 2.0 | ug/l | 25.0 | ND | 88.4 | 60-135 | 8.00 | 20 | |
| 1,1-Dichloroethene | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 55-120 | 7.52 | 20 | |
| cis-1,2-Dichloroethene | 28.4 | 2.0 | ug/l | 25.0 | ND | 114 | 75-120 | 14.3 | 20 | |
| trans-1,2-Dichloroethene | 28.6 | 2.0 | ug/l | 25.0 | ND | 114 | 65-120 | 12.2 | 20 | |
| 1,2-Dichloropropane | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 80-125 | 11.0 | 20 | |
| 1,3-Dichloropropane | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 55-140 | 5.62 | 20 | |
| 2,2-Dichloropropane | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 45-165 | 17.7 | 20 | |
| 1,1-Dichloropropene | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 80-120 | 9.36 | 20 | |
| | | | | | | | | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9586 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKH0356

Sampled: 08/20/01

Received: 08/21/01

i An THEODER BANK RECEDENCES.

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3106 Extracted: 08/30 | <u>/01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 08/31/01 | (P1H3106-M | ISD1) | | | Source: I | PKH0441- | 03 | | | |
| cis-1,3-Dichloropropene | 21.3 | 2.0 | ug/l | 25.0 | ND | 85.2 | 80-120 | 13.5 | 20 | |
| trans-1,3-Dichloropropene | 22.5 | 2.0 | ug/l | 25.0 | ND | 90.0 | 70-120 | 6.90 | 20 | |
| Ethylbenzene | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | 9.92 | 20 | |
| Hexachlorobutadiene | 14.2 | 5.0 | ug/l | 25.0 | ND | 56.8 | 80-135 | 48.9 | 20 | M2,Q11 |
| 2-Hexanone | 23.8 | 10 | ug/l | 25.0 | ND | 95.2 | 25-185 | 4.52 | 20 | |
| Iodomethane | 34.8 | 2.0 | ug/l | 25.0 | ND | 139 | 30-155 | 9.01 | 20 | |
| Isopropylbenzene | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 80-125 | 13.4 | 20 | |
| p-Isopropyltoluene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 80-125 | 7.67 | 20 | |
| Methylene chloride | 29.1 | 5.0 | ug/l | 25.0 | ND | 116 | 55-125 | 15.6 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 22.7 | 10 | ug/l | 25.0 | ND | 90.8 | 10-175 | 7.31 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 27.1 | 5.0 | ug/l | 25.0 | ND | 108 | 55-135 | 19.4 | 20 | |
| Naphthalene | 21.1 | 5.0 | ug/l | 25.0 | ND | 84.4 | 15-160 | 1.91 | 20 | |
| n-Propylbenzene | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 80-130 | 7.79 | 20 | |
| Styrene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 60-135 | 10.8 | 20 | |
| 1,1,1,2-Tetrachloroethane | 26.1 | 5.0 | ug/l | 25.0 | ND | 104 | 80-135 | 8.38 | 20 | |
| 1,1,2,2-Tetrachloroethane | 23,4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 35-150 | 8.98 | 20 | |
| Tetrachloroethene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | 6.24 | 20 | |
| Toluene | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | 3.95 | 20 | |
| 1,2,3-Trichlorobenzene | 18.1 | 5.0 | ug/l | 25.0 | ND | 72.4 | 45-145 | 0.551 | 20 | |
| 1,2,4-Trichlorobenzene | 21.4 | 5.0 | ug/l | 25.0 | ND | 85.6 | 65-130 | 6.76 | 20 | |
| 1,1,1-Trichloroethane | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | 7.28 | 20 | |
| 1,1,2-Trichloroethane | 25.9 | 2.0 | ug/l | 25.0 | ND | 104 | 55-145 | 5.96 | 20 | |
| Trichloroethene | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 80-120 | 9.85 | 20 | |
| Trichlorofluoromethane | 24.2 | 5.0 | ug/l | 25.0 | ND | 96.8 | 70-145 | 4.65 | 20 | |
| 1,2,3-Trichloropropane | 22.6 | 10 | ug/l | 25.0 | ND | 90.4 | 20-160 | 18.1 | 20 | |
| 1,2,4-Trimethylbenzene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 70-135 | 7.57 | 20 | |
| 1,3,5-Trimethylbenzene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 80-125 | 6.11 | 20 | |
| Vinyl acetate | 31.2 | 25 | ug/l | 25.0 | ND | 125 | 25-130 | 13.7 | 20 | |
| Vinyl chloride | 23.6 | 5.0 | ug/l | 25.0 | ND | 94.4 | 25-135 | 5.66 | 20 | |
| Xylenes, Total | 76.0 | 10 | ug/l | 75.0 | ND | 101 | 80-120 | 12.1 | 20 | |
| Surrogate: Dibromofluoromethane | 27.8 | | ug/l | 25.0 | | 111 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.8 | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.8 | | ug/l | 25.0 | | 107 | 80-120 | | | |



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150

Report Number:

PKH0356

Sampled: 08/20/01

Received: 08/21/01

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------|--------------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2407 Extracted | : 08/24/01 | | | | | | | | | |
| Blank Analyzed: 08/28/01 (P1) | H2407-BLK1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | • |
| Chromium | ND | 1.0 | mg/kg | | | | | | | |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| Zine | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 08/28/01 (P1H | 2407-BS1) | | | | | | | | | |
| Arsenic | 91.6 | 5.0 | mg/kg | 100 | | 91.6 | 80-120 | | | |
| Chromium | 93.3 | 1.0 | mg/kg | 100 | | 93.3 | 80-120 | | | |
| Copper | 95.4 | 2.0 | mg/kg | 100 | | 95.4 | 80-120 | | | |
| Nickel | 91.7 | 5.0 | mg/kg | 100 | | 91.7 | 80-120 | | | |
| Zinc | 92.1 | 5.0 | mg/kg | 100 | | 92.1 | 80-120 | | | |
| Matrix Spike Analyzed: 08/28/ | 01 (P1H2407-MS1) | | | | Source: P | КН0382- | 02 | | | |
| Arsenic | 96.7 | 5.0 | mg/kg | 100 | ND | 94.6 | 75-125 | | | |
| Chromium | 106 | 1.0 | mg/kg | 100 | 12 | 94.0 | 75-125 | | | |
| Copper | 108 | 2.0 | mg/kg | 100 | 12 | 96.0 | 75-125 | | | |
| Nickel | 92.7 | 5.0 | mg/kg | 100 | 8.0 | 84.7 | 75-125 | | | |
| Zinc | 179 | 5.0 | mg/kg | 100 | 60 | 119 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 0 | 8/28/01 (P1H2407-M | SD1) | | | Source: P | КН0382- | 02 | | | |
| Arsenic | 105 | 5.0 | mg/kg | 100 | ND | 103 | 75-125 | 8.23 | 20 | |
| Chromium | 108 | 1.0 | mg/kg | 100 | 12 | 96.0 | 75-125 | 1.87 | 20 | |
| Copper | 109 | 2.0 | mg/kg | 100 | 12 | 97.0 | 75-125 | 0.922 | 20 | |
| Nickel | 93.9 | 5.0 | mg/kg | 100 | 8.0 | 85.9 | 75-125 | 1.29 | 20 | |
| Zinc | 184 | 5.0 | mg/kg | 100 | 60 | 124 | 75-125 | 2.75 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/20/01

Report Number:

PKH0356

Received: 08/21/01

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|-----------|-----------|-------|-------|-----------|---------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3004 Extracted: 08/29/0 | <u>1</u> | | | | | | | | | |
| Blank Analyzed: 08/30/01 (P1H3004-BI | .K1) | | | | | | | | | |
| Chromium VI | ND | 1.0 | mg/kg | | | | | | | |
| LCS Analyzed: 08/30/01 (P1H3004-BS1 |) | | | | | | | | | |
| Chromium VI | 9.73 | 1.0 | mg/kg | 10.0 | | 97.3 | 85-115 | | | |
| LCS Dup Analyzed: 08/30/01 (P1H3004 | -BSD1) | | | | | | | | | |
| Chromium VI | 9.28 | 1.0 | mg/kg | 10.0 | | 92.8 | 85-115 | 4.73 | 20 | |
| Matrix Spike Analyzed: 08/30/01 (P1H3 | 8004-MS1) | | | | Source: P | KH0452- | 01 | | | |
| Chromium VI | 8.84 | 1.0 | mg/kg | 10.0 | ND | 88.4 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 08/30/01 (| P1H3004-M | SD1) | | | Source: P | KH0452- | 01 | | | |
| Chromium VI | 9.98 | 1.0 | mg/kg | 10.0 | ND | 99.8 | 85-115 | 12.1 | 20 | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150

Report Number:

PKH0356

Sampled: 08/20/01

Received: 08/21/01

METHOD BLANK/QC DATA

TOTAL RECOVERABLE METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|-----------|-----------|-------|--------|-----------|---------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2119 Extracted: 08/21/0 | 1 | | | | | | | | | |
| Blank Analyzed: 08/21/01 (P1H2119-B) | LK1) | | | | | | | | | |
| Chromium VI | ND | 0.025 | mg/l | | | | | | | |
| LCS Analyzed: 08/21/01 (P1H2119-BS) | l) | | | | | | | | | |
| Chromium VI | 0.102 | 0.050 | mg/l | 0.100 | | 102 | 85-115 | | | |
| Matrix Spike Analyzed: 08/21/01 (P1H) | 2119-MS1) | | | | Source: P | KH0356- | 01 | | | |
| Chromium VI | 0.0350 | 0.025 | mg/l | 0.0500 | ND | 70.0 | 85-115 | | | M2 |
| Matrix Spike Dup Analyzed: 08/21/01 (| P1H2119-M | SD1) | | | Source: P | KH0356- | 01 | | | |
| Chromium VI | 0.0412 | 0.025 | mg/l | 0.0500 | ND | 82.4 | 85-115 | 16.3 | 20 | M2 |
| Batch: P1H2320 Extracted: 08/23/0 | 1 | | | | | | | | | |
| Blank Analyzed: 08/24/01 (P1H2320-B) | LK1) | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| LCS Analyzed: 08/24/01 (P1H2320-BS) | l) | | | | | | | | | |
| Arsenic | 1.06 | 0.050 | mg/l | 1.00 | | 106 | 85-115 | | | |
| Chromium | 1.03 | 0.010 | mg/l | 1.00 | | 103 | 85-115 | | | |
| Copper | 1.02 | 0.020 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Nickel | 1.02 | 0.050 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Zinc | 1.05 | 0.050 | mg/l | 1.00 | | 105 | 85-115 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150

Sampled: 08/20/01

Report Number:

PKH0356

Received: 08/21/01

METHOD BLANKOC DATA

TOTAL RECOVERABLE METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2320 Extracted: 08/23 | <u>3/01</u> | | | | | | | | | |
| Matrix Spike Analyzed: 08/24/01 (P1 | H2320-MS1) | | | | Source: P | KH0332- | 02 | | | |
| Arsenic | 1.09 | 0.050 | mg/l | 1.00 | ND | 109 | 70-130 | | | |
| Chromium | 1.03 | 0.010 | mg/l | 1.00 | 0.013 | 102 | 70-130 | | | |
| Copper | 1.08 | 0.020 | mg/l | 1.00 | ND | 107 | 70-130 | | | |
| Nickel | 1.01 | 0.050 | mg/l | 1.00 | ND | 101 | 70-130 | | | |
| Zinc | 1.09 | 0.050 | mg/l | 1.00 | ND | 108 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 08/24/01 | (P1H2320-N | (ISD1) | | | Source: I | KH0332- | 02 | | | |
| Arsenic | 1.08 | 0.050 | mg/l | 1.00 | ND | 108 | 70-130 | 0.922 | 20 | |
| Chromium | 1.03 | 0.010 | mg/l | 1.00 | 0.013 | 102 | 70-130 | 0.00 | 20 | |
| Copper | 1.07 | 0.020 | mg/l | 1.00 | ND | 106 | 70-130 | 0.930 | 20 | |
| Nickel | 1.00 | 0.050 | mg/l | 1.00 | ND | 99.8 | 70-130 | 0.995 | 20 | |
| Zinc | 1.08 | 0.050 | mg/l | 1.00 | ND | 106 | 70-130 | 0.922 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150

Sampled: 08/20/01 Received: 08/21/01

Attention: Jim Clarke

Report Number: PKH0356

METHOD BLANK OF DATA

INORGANICS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|-------------|-----------|-------|-------|-----------|---------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2906 Extracted: 08/28/ | 01 | | | | | | | | | _ |
| Blank Analyzed: 08/29/01 (P1H2906-B | BLK1) | | | | | | | | | |
| Total Cyanide | ND | 0.020 | mg/l | | | | | | | • |
| LCS Analyzed: 08/29/01 (P1H2906-BS | 51) | | Ū | | | | | | | |
| Total Cyanide | 0.115 | 0.020 | mg/l | 0.100 | | 115 | 90-110 | | | L3 |
| Matrix Spike Analyzed: 08/29/01 (P1H | (2906-MS1) | | Č | | Source: P | - | | | | L3 |
| Total Cyanide | 0.123 | 0.020 | mg/l | 0.100 | ND | 123 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 08/29/01 | (P1H2906-M | SD1) | | | Source: P | = | | | | |
| Total Cyanide | 0.0944 | 0.020 | mg/l | 0.100 | ND | 94.4 | 70-130 | 26.3 | 20 | R1 |
| Batch: P1H2911 Extracted: 08/29/0 | 01_ | | | | | | | | | |
| Blank Analyzed: 08/29/01 (P1H2911-B | LK1) | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 08/29/01 (P1H | (2911-MS1) | | | | Source: P | KH0356. | 02 | | | |
| Total Cyanide | 1.79 | 0.50 | mg/kg | 2.50 | ND | 71.6 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 08/29/01 | (P1H2911-M | SD1) | 0.0 | | Source: P | | | | | |
| Total Cyanide | 1.05 | 0.50 | mg/kg | 2.50 | ND | 42.0 | 70-130 | 52.1 | 20 | M2 D1 |
| Reference Analyzed: 08/29/01 (P1H291 | 1-SRM1) | | 56 | | - 12- | 0 | ,0 150 | J2.1 | 20 | M2,R1 |
| Total Cyanide | 87.4 | 20 | mg/kg | 201 | | 43.5 | 40-160 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/20/01 Received: 08/21/01

Report Number:

PKH0356

METHOD BLANK-QC DATA

DATA QUALIFIERS AND DEFINITIONS

- L3 The associated blank spike recovery was above method acceptance limits. See case narrative.
- M2 Matrix spike recovery was low, the method control sample recovery was acceptable.
- N1 See case narrative.
- Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.
- R1 RPD exceeded the method control limit. See case narrative.
- V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not reported.
- RPD Relative Percent Difference

Del Mar Analytical

2882 Aton Ave. India CA 22800 [848] 2
1014 E. Cooley Dg. Suite A. Colton CA 22224 [893] 2
16553 Sherman Way, Suite A. Colton CA 22224 [893] 9
16553 Sherman Way, Suite Cft., Van Muys, CA 82400 [819] 7
9494 Clesspeade Dr., Suite Gft., San Diego, CA 22223 [819] 9
9600 South Siri Si., Suite B-120, Phoenic, AZ 85044 [490]

(849) 261-1022 FAXY949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (819) 770-1844 FAX (818) 770-1843 (519) 505-6556 FAX (619) 505-689 (480) 785-003 FAX (480) 785-0851 CHAIN OF CUSTODY FORM

Quote # Page 0

| | Client Name/Address: | Project/PO Number: | | V | | Ä | Analysis Required | 70 | | | | |
|--|--|------------------------------|--|--|--|-----------------------|--|--|--|-----|---------------------|-----|
| Photos Number of Education and | | 702/1-0 | 7 | Z' | | יווכ | | | | | | |
| Section Sect | Mahlager: | | 18 | y '*! *W's | 40 | क् _{री दि} ष | | | | | | |
| Description Sample Container Property | BALLER | Fax Nur | 14/2 | | 111 | y -3 | | | | | | |
| | | Container # of Type Cont. | Preservatives | 0 | √}2 }>₩ | ZV | | | | | Special Instruction | |
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| | S | | | | | | | | | | | |
| Date Time: Secented by: Date Time: Good Turnaround Time: Gheck | 8-2-20 | | Selfon or morphism to a region | V | per | 2,30 | Tarrage Annual Contract of the | | 150 | | | |
| Date Time: Society of the Check Date Time: Society Turnaround Time: (Check Take Time) Take Time Ta | 1814 S | | | λ | | | | } | | | | 1.0 |
| Date Time; So Received by: Date Time: (Sor Turnaround Time: (Check) | | | | | | | | | | | | |
| Date Time; Society Date Time; Society Turnaround Time; (Check) | 7 | | | | | | | | | | | 1 |
| Date Titine: Received by: | elinquistred By: | 102 | | 7 | | • //c | ate /Time: /2-0/01 | to 3) | Turnaround Ti | (Š | ck) 72 hours | |
| Date /Time: Received in Lab by: Check) | emquismed By | Date /Time: | | | | Ō | ate /Time: | | 24 hours 48 hours | | 5 days | |
| | elinquished By: | Date /Time: | Received in Lab | 1 2 1 | The same of the sa | Ď | ite/Time: | | Sample Integr | Che | | 43 |
| | | | | | | The second second | 1 | 5 - 10 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | The second second second second second | | | |

uishing samples to Def Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention:

Jim Clarke

Client Project ID:

70211-D-0150

Sampled: 08/21/01 Received: 08/21/01

Report Number:

PKH0374

Issued: 9/11/01 Revised: 11/13/01

CEARDON PROPERTY OF THE PROPER

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|----------------------|-----------------------|------------------|
| PKH0374-02 | LB1-S-60 | Soil |
| PKH0374-03 | LB1-S-80 | Soil |
| PKH0374-04 | LB1-S-90 | Soil |
| PKH0374-05 | LB1-S-110 | Soil |

SAMPLE RECEIPT:

Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES:

Holding times were met.

PRESERVATION:

Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS:

Report was revised 11/13/01 to correct sample identification.

SUBCONTRACTED:

No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA:

The R1 flag on Cyanide indicates that the RPD exceeded the method control limit. See Corrective Action Report.

EXPLANATION OF DATA

QUALIFIERS:

No further explanation of data qualifiers needed.

DEL MAR ANALATICAL, PHOENIX (AZ0426)

Project Manager

PKH0374 Page 1 of 7



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-D-0150

Sampled: 08/21/01

Report Number:

PKH0374

Received: 08/21/01

TOTAL METALS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|-------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0374-02 (LB1-S- | 60 - Soil) | | | | | | | • |
| Arsenic | EPA 6010B | P1H2407 | 5.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Chromium | EPA 6010B | P1H2407 | 1.0 | 25 | 1 | 8/24/01 | 8/28/01 | |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1H2407 | 2.0 | 10 | 1 | 8/24/01 | 8/28/01 | |
| Nickel | EPA 6010B | P1H2407 | 5.0 | 12 | 1 | 8/24/01 | 8/28/01 | |
| Zinc | EPA 6010B | P1H2407 | 5.0 | 30 | 1 | 8/24/01 | 8/28/01 | |
| Sample ID: PKH0374-03 (LB1-S- | 80 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1H2407 | 5.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Chromium | EPA 6010B | P1H2407 | 1.0 | 1.6 | 1 | 8/24/01 | 8/28/01 | |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1H2407 | 2.0 | 2.7 | 1 | 8/24/01 | 9/9/01 | |
| Nickel | EPA 6010B | P1H2407 | 5.0 | ND | . 1 | 8/24/01 | 8/28/01 | |
| Zinc | EPA 6010B | P1H2407 | 5.0 | 9.8 | 1 | 8/24/01 | 8/28/01 | |
| Sample ID: PKH0374-04 (LB1-S- | 90 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1H2407 | 5.0 | ND | 1 | 8/24/0I | 8/28/01 | |
| Chromium | EPA 6010B | P1H2407 | 1.0 | 11 | 1 | 8/24/01 | 8/28/01 | |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1H2407 | 2.0 | 6.5 | 1 | 8/24/01 | 8/28/01 | |
| Nickel | EPA 6010B | P1H2407 | 5.0 | 8.8 | 1 | 8/24/01 | 8/28/01 | |
| Zinc | EPA 6010B | P1H2407 | 5.0 | 15 | 1 | 8/24/01 | 8/28/01 | |
| Sample ID: PKH0374-05 (LB1-S- | 110 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1H2407 | 5.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Chromium | EPA 6010B | P1H2407 | 1.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1H2407 | 2.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Nickel | EPA 6010B | P1H2407 | 5.0 | ND | 1 | 8/24/01 | 8/28/01 | |
| Zinc | EPA 6010B | P1H2407 | 5.0 | 7.2 | 1 | 8/24/01 | 8/28/01 | |

DEL MAR ANALYTICAL, PHOENIX (AZ0426



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-D-0150

Sampled: 08/21/01

Report Number:

PKH0374

Received: 08/21/01

INORGANICS

| | | 1 | HOROAN | ICS | | | | |
|-----------------------------|----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
| Sample ID: PKH0374-02 (LB1- | S-60 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1H2911 | 0.50 | ND | 1 | 8/29/01 | 8/29/01 | |
| Sample ID: PKH0374-03 (LB1- | -S-80 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1H3007 | 0.50 | ND | 1 | 8/30/01 | 8/30/01 | |
| Sample ID: PKH0374-04 (LB1- | ·S-90 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1H3007 | 0.50 | ND | 1 | 8/30/01 | 8/30/01 | |
| Sample ID: PKH0374-05 (LB1- | -S-110 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1H3007 | 0.50 | ND | 1 | 8/30/01 | 8/30/01 | |
| | | | | | | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-D-0150

Sampled: 08/21/01

Report Number:

PKH0374

Received: 08/21/01

TMETHOD BLANKQU DATTA

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--|-----------|-----------|--------------------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2407 Extracted: 08/24/0 | <u>)1</u> | | | | | | | | | |
| Blank Analyzed: 08/28/01 (P1H2407-B | LK1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Chromium | ND | 1.0 | mg/kg | | | | | | | |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 08/28/01 (P1H2407-BS | 1) | | | | | | | | | |
| Arsenic | 91.6 | 5.0 | mg/kg | 100 | | 91.6 | 80-120 | | | |
| Chromium | 93.3 | 1.0 | mg/kg | 100 | | 93.3 | 80-120 | | | |
| Copper | 95.4 | 2.0 | mg/kg | 100 | | 95.4 | 80-120 | | | |
| Nickel | 91.7 | 5.0 | mg/kg | 100 | | 91.7 | 80-120 | | | |
| Zinc | 92.1 | 5.0 | mg/kg | 100 | | 92.1 | 80-120 | | | |
| Matrix Spike Analyzed: 08/28/01 (P1H | 2407-MS1) | | | | Source: I | KH0382- | 02 | | | |
| Arsenic | 96.7 | 5.0 | mg/kg | 100 | ND | 94.6 | 75-125 | | | |
| Chromium | 106 | 1.0 | mg/kg | 100 | 12 | 94.0 | 75-125 | | | |
| Copper | 108 | 2.0 | mg/kg | 100 | 12 | 96.0 | 75-125 | | | |
| Nickel | 92.7 | 5.0 | mg/kg | 100 | 8.0 | 84.7 | 75-125 | | | |
| Zine | 179 | 5.0 | mg/kg | 100 | 60 | 119 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 08/28/01 (P1H2407-MSD1) | | | Source: PKH0382-02 | | | | | | | |
| Arsenic | 105 | 5.0 | mg/kg | 100 | ND | 103 | 75-125 | 8.23 | 20 | |
| Chromium | 108 | 1.0 | mg/kg | 100 | 12 | 96.0 | 75-125 | 1.87 | 20 | |
| Copper | 109 | 2.0 | mg/kg | 100 | 12 | 97.0 | 75-125 | 0.922 | 20 | |
| Nickel | 93.9 | 5.0 | mg/kg | 100 | 8.0 | 85.9 | 75-125 | 1.29 | 20 | |
| Zinc | 184 | 5.0 | mg/kg | 100 | 60 | 124 | 75-125 | 2.75 | 20 | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-D-0150

Report Number:

PKH0374

Sampled: 08/21/01

Received: 08/21/01

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--|-----------|-----------|--------------------|-------|-----------|---------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3004 Extracted: 08/29/0 | 1_ | | | | | | | | | |
| Blank Analyzed: 08/30/01 (P1H3004-Bl | LK1) | | | | | | | | | |
| Chromium VI | ND | 1.0 | mg/kg | | | | | | | |
| LCS Analyzed: 08/30/01 (P1H3004-BS1 | .) | | | | | | | | | |
| Chromium VI | 9.73 | 1.0 | mg/kg | 10.0 | | 97.3 | 85-115 | | | |
| LCS Dup Analyzed: 08/30/01 (P1H3004 | l-BSD1) | | | | | | | | | |
| Chromium VI | 9.28 | 1.0 | mg/kg | 10.0 | | 92.8 | 85-115 | 4.73 | 20 | |
| Matrix Spike Analyzed: 08/30/01 (P1H3 | 3004-MS1) | | | | Source: F | KH0452- | 01 | | | |
| Chromium VI | 8.84 | 1.0 | mg/kg | 10.0 | ND | 88.4 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 08/30/01 (P1H3004-MSD1) | | | Source: PKH0452-01 | | | | | | | |
| Chromium VI | 9.98 | 1.0 | mg/kg | 10.0 | ND | 99.8 | 85-115 | 12.1 | 20 | |



2852 Alton Ave., Irvine, CA 92606 1014 E. Cooley Dr., Suite A, Colton, CA 92324 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123

9830 South 51st St., Suite B-120, Phoenix, AZ 85044

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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-D-0150

Sampled: 08/21/01

Attention: Jim Clarke

Report Number:

PKH0374

Received: 08/21/01

.... METHOD BLANK QC DATA.

INORGANICS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|---------------------------------------|-----------|-------|-------|--------------------|---------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2911 Extracted: 08/29/ | <u>01</u> | | | | | | | | | |
| Blank Analyzed: 08/29/01 (P1H2911-E | LK1) | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 08/29/01 (P1H | (2911-MS1) | | | | Source: P | KH0356- | 02 | | | |
| Total Cyanide | 1.79 | 0.50 | mg/kg | 2.50 | ND | 71.6 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 08/29/01 | (P1H2911-M | (ISD1) | | | Source: F | KH0356- | 02 | | | |
| Total Cyanide | 1.05 | 0.50 | mg/kg | 2.50 | ND | 42.0 | 70-130 | 52.1 | 20 | M2,R1 |
| Reference Analyzed: 08/29/01 (P1H29) | 11-SRM1) | | | | | | | | | |
| Total Cyanide | 87.4 | 20 | mg/kg | 201 | | 43.5 | 40-160 | | | |
| Batch: P1H3007 Extracted: 08/30/ | <u>01</u> | | | | | | | | | |
| Blank Analyzed: 08/30/01 (P1H3007-E | BLK1) | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 08/30/01 (P1H | 13007-MS1) | | | | Source: F | KH0508- | 01 | | | |
| Total Cyanide | 1.44 | 0.50 | mg/kg | 2.50 | 1.5 | -2.40 | 70-130 | | | M3 |
| Matrix Spike Dup Analyzed: 08/30/01 | oup Analyzed: 08/30/01 (P1H3007-MSD1) | | | | Source: PKH0508-01 | | | | | |
| Total Cyanide | 1.54 | 0.50 | mg/kg | 2.50 | 1.5 | 1.60 | 70-130 | 6.71 | 20 | M3 |
| Reference Analyzed: 08/30/01 (P1H30 | 07-SRM1) | | | | | | | | | |
| Total Cyanide | 85.3 | 20 | mg/kg | 201 | | 42.4 | 40-160 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: 70211-D-0150

Sampled: 08/21/01 Received: 08/21/01

Attention: Jim Clarke

Report Number:

PKH0374

MDITHOD BLANKÇKI DADA

DATA QUALIFIERS AND DEFINITIONS

M2 Matrix spike recovery was low, the method control sample recovery was acceptable.

M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike

level. The method control sample recovery was acceptable.

R1 RPD exceeded the method control limit. See case narrative.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported.

RPD Relative Percent Difference

Del Mar Analytical

2852 Alton Ave., Infine, CA 92806 1014 E. Cooley D., Sule A; Coleon, CA 92324 16525 Sherman Wey, Sule C-11, Ven Nuys, CA 92406 9484 Chesapeate D., Sule 805, San Diego, CA 92103 9830 South 51st St., Sule 81:120, Phoenix, AZ 85044

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CHAIN OF CUSTODY FORM

Page Quote #:

Special Instructions SON W 72 hours 5 days normal (Check) Sample Integrity: (Check) OB 7 40 0 Turnaround Time: same day 24 hours 48 hours intact 10/10/18 Analysis Required S. S. Date Time: Date /Time: Received in Lab by: 602 457 36X Received by: Received by: 70211.0.0/5D Sampling Preservatives
Date/Time Phone Number: PASS 12 13/2/2 Project/PO Number: 728 85 Fax Number: Cont. Date Time: Date /Time: Sample Container Matrix Type Type 3 4 Client Name/Address: | X X 3 181-5-60 が Description 815.40 Project Manager: Sampler:

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice: Sample(s) will be disposed of after 30 days.



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Jim Clarke Attention:

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01

Received: 08/24/01

Issued: 9/11/01

Report Number:

PKH0446

LABORATORY NUMBER

PKH0446-01 PKH0446-02 PKH0446-03

SAMPLE DESCRIPTION

LB1 RINSATE 8/22/01 Dumpster-1 Trip Blank

SAMPLE MATRIX

> Water Soil Water

SAMPLE RECEIPT:

Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES:

Holding times were met.

PRESERVATION:

Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS:

The N1 flag indicates that the samples are tested for the presence of sulfide in the lab within 24 hours of sampling. Samples

were received and tested past the 24 hours.

SUBCONTRACTED:

No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA:

The N2 flag on 8260 indicates that the Matrix Spike recovery was outside the method control limits. See Corrective Action

Report.

EXPLANATION OF DATA

QUALIFIERS:

The L3 flag on 8260 indicates that the Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.

DEL MAR ANALYTICAL , PHOENIX (AZ0426)

Melissa Evans Project Manager

PKH0446 Page 1 of 35





CORRECTIVE ACTION REPORT

Department: GC/MS

Method:

8260B

Date:

09/01/2001

Matrix:

Water

Batch:

P1I0301

Samples:

PKH0411-04 – PKH0411-06, PKH0419-01, PKH0423-03, PKH0446-01,

PKH0446-03 & PKH0519-02

Identification and Definition of Problem:

The Laboratory Control Sample (LCS), Laboratory Control Sample Duplicate (LCSD), Matrix Spike (MS) and Matrix Spike (MS) recovered high and outside of acceptance limits for Vinyl acetate.

Determination of the Cause of the Problem:

A definitive cause for the high recoveries could not be determined.

Corrective Action:

All samples associated with this batch are non-detect and therefore are not impacted by the high recoveries. The associated samples as well as the LCS and LCSD have been flagged "L3" to indicate the high recovery. The MS, MSD and the source samples have also been flagged "N2".

Elizabeth C. Wueschner: Charlet Color usun Date: 09/20/2001

Quality Assurance Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place

Client Project ID: 70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0446

Received: 08/24/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Sample ID: PKH0446-01 (LB1 RINSATE 8/22/01 - Water) Sample ID: PKH046-01 |
|--|
| Accione EPA 8260B PI10301 20 ND 1 9/1/01 9/1/01 Benzene EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 Bromobenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Bromochloromethane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Bromoform EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Bromoform EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Bromomethane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Butanone (MEK) EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Butanone (MEK) EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Butylenzene EPA 8260B P110301 5.0 ND 1 9/ |
| Benzene |
| Bromobenzene EPA 8260B P 10301 5.0 ND 1 9/1/01 9/1/01 Bromodichloromethane EPA 8260B P 10301 2.0 ND 1 9/1/01 9/1/01 Bromodichloromethane EPA 8260B P 10301 2.0 ND 1 9/1/01 9/1/01 Bromoform EPA 8260B P 10301 5.0 ND 1 9/1/01 9/1/01 Bromomethane EPA 8260B P 10301 5.0 ND 1 9/1/01 9/1/01 Bromomethane EPA 8260B P 10301 5.0 ND 1 9/1/01 9/1/01 Bromomethane EPA 8260B P 10301 5.0 ND 1 9/1/01 9/1/01 Se-Burylbenzene EPA 8260B P 10301 5.0 ND 1 9/1/01 9/1/01 Carbon tetrachloride EPA 8260B P 10301 5.0 ND 1 9/1/01 9/1/01 Chlorotehane EPA 8260B P 10301 5.0 |
| Bromodichloromethane EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 Bromoform EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Bromomethane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Butanone (MEK) EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 n-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 sec-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 sec-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Carbon Disulfide EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Carbon tetraschloride EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorotethane EPA 8260B P110301 5.0 ND |
| Bromoform |
| Bromomethane |
| 2-Butanone (MEK) EPA 8260B P110301 10 ND 1 9/1/01 9/1/01 n-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 sec-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Carbon Disulfide EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Carbon tetrachloride EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorobenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorobenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorochune EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Chlorotoluene EPA 8260B P110301 5.0 ND |
| n-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 sec-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 tert-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Carbon Disulfide EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Carbon tetrachloride EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorobenzene EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 Chlorotenane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND |
| n-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 sec-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 tert-Butylbenzene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Carbon Disulfide EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Carbon tetrachloride EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorobenzene EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 Chlorotenane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorotenane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND |
| tert-Burylbenzene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 Carbon Disulfide EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 Carbon tetrachloride EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 Chlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Chlorotethane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 Chlorotothane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 1,2-Dibromo-3-chloropropane EPA 8260B P110301 2.0 < |
| Carbon Disulfide EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Carbon tetrachloride EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorobenzene EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 Chlorotethane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorotoform EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 1/2-Dibromo-3-chloropropane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 1/2-Dibromoethane (EDB) EPA 8260B P110301 2.0 |
| Carbon tetrachloride EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chloroebenzene EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 Chloroethane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chloroform EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 1,2-Dibromo-3-chloropropane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 1,2-Dibromoethane (EDB) EPA 8260B P110301 2.0 |
| Chlorobenzene EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 Chloroethane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chloroform EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 1,2-Dibromoethane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 1,2-Dichlorobenzene EPA 8260B P110301 2.0 ND |
| Chloroethane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Chloroform EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 9/1/01 1,2-Dibromo-3-chloropropane EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 9/1/01 </td |
| Chloroform EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Chloromethane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 2-Chlorotoluene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dibromochloromethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dibromochane (EDB) EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,4-Dichlorochane EPA 8260B P1I0301 2.0 <t< td=""></t<> |
| Chloromethane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 2-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 Dibromochloromethane EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 1,2-Dibromo-3-chloropropane EPA 8260B P110301 5.0 ND 1 9/1/01 9/1/01 1,2-Dibromoethane (EDB) EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichlorobenzene EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 1,3-Dichlorobenzene EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 1,4-Dichlorobenzene EPA 8260B P110301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P110301 |
| 2-Chlorotoluene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 4-Chlorotoluene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 Dibromochloromethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dibromo-3-chloropropane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,2-Dibromoethane (EDB) EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dibromomethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,4-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichloroethene EPA 8260B P1I0301 |
| 4-Chlorotoluene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 Dibromochloromethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dibromo-3-chloropropane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,2-Dibromoethane (EDB) EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dibromomethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,4-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dichlorodifluoromethane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 </td |
| Dibromochloromethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dibromo-3-chloropropane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,2-Dibromoethane (EDB) EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dibromomethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,3-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,4-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 |
| 1,2-Dibromo-3-chloropropane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,2-Dibromoethane (EDB) EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dibromomethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,3-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,4-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dichlorodifluoromethane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 cis-1,2-Dichloroethene EPA 8260B P1I |
| 1,2-Dibromoethane (EDB) EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dibromomethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,3-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,4-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dichlorodifluoromethane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 cis-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 trans-1,2-Di |
| Dibromomethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,3-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,4-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dichlorodifluoromethane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 cis-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 trans-1,2-Dichloroethene EPA 8260B P1I0301 |
| 1,2-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,3-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,4-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dichlorodifluoromethane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 cis-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 trans-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| 1,3-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,4-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dichlorodifluoromethane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 cis-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 trans-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| 1,4-Dichlorobenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 Dichlorodifluoromethane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 cis-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 trans-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| Dichlorodifluoromethane EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 cis-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 trans-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| 1,1-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,2-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 cis-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 trans-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| 1,2-Dichloroethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 cis-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 trans-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| 1,1-Dichloroethene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 cis-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 trans-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| cis-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 trans-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| trans-1,2-Dichloroethene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| |
| 1 A TO 1 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A |
| 1,2-Dichloropropane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| 1,3-Dichloropropane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| 2,2-Dichloropropane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| 1,1-Dichloropropene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| cis-1,3-Dichloropropene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 M2 |
| trans-1,3-Dichloropropene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| Ethylbenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| Hexachlorobutadiene EPA 8260B P1I0301 5.0 ND 1 9/1/01 9/1/01 M2 |
| 2-Hexanone EPA 8260B P1I0301 10 ND 1 9/1/01 9/1/01 |
| Iodomethane EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| Isopropylbenzene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |
| p-Isopropyltoluene EPA 8260B P1I0301 2.0 ND 1 9/1/01 9/1/01 |

Melissa Evans Project Manager PKH0446 Page 2 of 35



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 7579-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Report Number:

PKH0446

Received: 08/24/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| - ' | Sample ID: PKH0446-01 (LB1 RINSATE 8/22/01 - Water) | | | | | | | |
| Methylene chloride | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I0301 | 10 | ND | 1 | 9/1/01 | 9/1/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Naphthalene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| n-Propylbenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Styrene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Tetrachloroethene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Toluene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Trichloroethene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I0301 | 10 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Vinyl acetate | EPA 8260B | P1I0301 | 25 | ND | 1 | 9/1/01 | 9/1/01 | V1,L3,N2 |
| Vinyl chloride | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Xylenes, Total | EPA 8260B | P1I0301 | 10 | ND | 1 | 9/1/01 | 9/1/01 | |
| Surrogate: Dibromofluoromethane (80-120 | 9%) | | | 107 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | 110 % | | | | |
| Surrogate: 4-Bromofluorobenzene (80-120 | %) | | | 108 % | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0446

Received: 08/24/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|----------------|---------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Analyte | Method | Daten | ug/kg | ug/kg | 1 actor | Latitueted | 1 Mary 200 | Quantiers |
| Sample ID: PKH0446-02 (Dump | ster_1 - Soil) | | ug/kg | ug/Kg | | | | |
| Acetone | EPA 8260B | P1H2501 | 1000 | ND | 1 | 8/25/01 | 9/6/01 | |
| Benzene | EPA 8260B | P1H2501 | 50 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromobenzene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromochloromethane | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromodichloromethane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromoform | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromomethane | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1H2501 | 500 | ND | 1 | 8/25/01 | 9/6/01 | |
| n-Butylbenzene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| sec-Butylbenzene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| tert-Butylbenzene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| Carbon Disulfide | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| Carbon tetrachloride | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chlorobenzene | EPA 8260B | P1H2501 | 50 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chloroethane | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chloroform | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chloromethane | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2-Chlorotoluene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| 4-Chlorotoluene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| Dibromochloromethane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Dibromomethane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1H2501 | 50 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Ethylbenzene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Hexachlorobutadiene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2-Hexanone | EPA 8260B | P1H2501 | 500 | ND | 1 | 8/25/01 | 9/6/01 | |
| Iodomethane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Isopropylbenzene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| p-Isopropyltoluene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |

Melissa Evans Project Manager PKH0446 Page 4 of 35



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-0150-2-2.10

PKH0446

Sampled: 08/22/01-08/24/01

Received: 08/24/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0446-02 (Dumj | oster-1 - Soil) | | | | | | | |
| Methylene chloride | EPA 8260B | P1H2501 | 500 | ND | 1 | 8/25/01 | 9/6/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1H2501 | 500 | ND | 1 | 8/25/01 | 9/6/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| Naphthalene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| n-Propylbenzene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Styrene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Tetrachloroethene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Toluene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Trichloroethene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Trichlorofluoromethane | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1H2501 | 500 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1H2501 | 100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Vinyl acetate | EPA 8260B | P1H2501 | 1200 | ND | 1 | 8/25/01 | 9/6/01 | |
| Vinyl chloride | EPA 8260B | P1H2501 | 250 | ND | 1 | 8/25/01 | 9/6/01 | |
| Xylenes, Total | EPA 8260B | P1H2501 | 150 | ND | 1 | 8/25/01 | 9/6/01 | |
| Surrogate: Dibromofluoromethane (70-12 | 5%) | | | 73.4 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 76.8 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-130 | 0%) | | | 78.3 % | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Attention: Jim Clarke Report Number:

PKH0446

Received: 08/24/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0446-03 (Trip I | Blank - Water) | | ~B/^ | ~B'- | | | | |
| Acetone | EPA 8260B | P1I0301 | 20 | ND | 1 | 9/1/01 | 9/1/01 | |
| Benzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Bromobenzene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Bromochloromethane | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Bromodichloromethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Bromoform | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Bromomethane | EPA 8260B | P110301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 2-Butanone (MEK) | EPA 8260B | P110301 | 10 | ND | 1 | 9/1/01 | 9/1/01 | |
| n-Butylbenzene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| sec-Butylbenzene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| tert-Butylbenzene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Carbon Disulfide | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Carbon tetrachloride | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Chlorobenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Chloroethane | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Chloroform | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Chloromethane | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Dibromochloromethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Dibromomethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 . | 9/1/01 | 9/1/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| I,3-Dichloropropane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Ethylbenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 2-Hexanone | EPA 8260B | P1I0301 | 10 | ND | 1 | 9/1/01 | 9/1/01 | |
| Iodomethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Isopropylbenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |

Melissa Evans Project Manager PKH0446 Page 6 of 35



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (658) 505-6596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Attention: Jim Clarke

Report Number:

PKH0446

Received: 08/24/01

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0446-03 (Trip F | Blank - Water) | | | | | | | |
| Methylene chloride | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I0301 | 10 | ND | 1 | 9/1/01 | 9/1/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P110301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Naphthalene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| n-Propylbenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 - | 9/1/01 | 9/1/01 | |
| Styrene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P110301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Tetrachloroethene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Toluene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P110301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I0301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Trichloroethene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Trichlorofluoromethane | EPA 8260B | P110301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I0301 | 10 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P110301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I0301 | 2.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Vinyl acetate | EPA 8260B | P110301 | 25 | ND | 1 | 9/1/01 | 9/1/01 | V1,L3 |
| Vinyl chloride | EPA 8260B | P110301 | 5.0 | ND | 1 | 9/1/01 | 9/1/01 | |
| Xylenes, Total | EPA 8260B | P1I0301 | 10 | ND | 1 | 9/1/01 | 9/1/01 | |
| Surrogate: Dibromofluoromethane (80-120 | %) | | | 106 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | 109 % | | | | |
| Surrogate: 4-Bromofluorobenzene (80-120) | %) | | | 109 % | | | | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

Report Number:

PKH0446

TOTAL METALS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|---------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0446-02 (Dumps | ter-1 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I0616 | 5.0 | ND | 1 | 9/6/01 | 9/9/01 | |
| Barium | EPA 6010B | P1I0616 | 1.0 | 56 | 1 | 9/6/01 | 9/9/01 | |
| Cadmium | EPA 6010B | P1I0616 | 0.50 | ND | 1 | 9/6/01 | 9/9/01 | |
| Chromium | EPA 6010B | P1I0616 | 1.0 | 9.6 | 1 | 9/6/01 | 9/9/01 | |
| Lead | EPA 6010B | P110616 | 5.0 | ND | 1 | 9/6/01 | 9/9/01 | |
| Mercury | EPA 7471A | P1H2923 | 0.020 | ND | 1 | 8/29/01 | 8/30/01 | |
| Selenium | EPA 6010B | P1I0616 | 5.0 | ND | 1 | 9/6/01 | 9/9/01 | |
| Silver | EPA 6010B | P1I0616 | 0.50 | ND | 1 | 9/6/01 | 9/9/01 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Report Number:

PKH0446

Received: 08/24/01

TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|---------------------|------------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0446-01 (LB1 RI | NSATE 8/22/0 | 1 - Water) | 1 | | | | | |
| Arsenic | EPA 200.7 | P1H2827 | 0.050 | ND | 1 | 8/28/01 | 8/29/01 | |
| Chromium | EPA 200.7 | P1H2827 | 0.010 | ND | 1 | 8/28/01 | 8/29/01 | |
| Copper | EPA 200.7 | P1H2827 | 0.020 | ND | 1 | 8/28/01 | 8/29/01 | |
| Nickel | EPA 200.7 | P1H2827 | 0.050 | ND | 1 | 8/28/01 | 8/29/01 | |
| Zinc | EPA 200.7 | P1H2827 | 0.050 | ND | 1 | 8/28/01 | 8/29/01 | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

INORGANICS

PKH0446

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|-----------------|------------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0446-01 (LB1) | RINSATE 8/22/0 | 1 - Water) | | | | | | |
| Total Cyanide | SM4500-CN,C-E | P1I0418 | 0.020 | ND | 1 | 9/4/01 | 9/4/01 | N 1 |
| | | | P/NP | P/NP | | | | |
| Sample ID: PKH0446-02 (Dum | pster-1 - Soil) | | | | | | | |
| Paint Filter Liquids Test | EPA 9095A | P1H2805 | NA | Present | 1 | 8/27/01 | 8/28/01 | |
| | | | mg/kg | mg/kg | | | | |
| Sample ID: PKH0446-02 (Dum | pster-1 - Soil) | | - | | | | | |
| Total Cyanide | EPA 9014 | P1I0513 | 0.50 | ND | 1 | 9/5/01 | 9/5/01 | |

DEL MAR ANALYTICAL, PHOENIX (AZ0426



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

Report Number:

PKH0446

<u> INTELUTIONERI ANNIGORIA DI ANTEG</u>

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|------------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25/ | <u>/01</u> | | | | | | | | | |
| Blank Analyzed: 09/04/01 (P1H2501-I | BLK1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | | | | | | | |
| Benzene | ND | 50 | ug/kg | | | | | | | |
| Bromobenzene | ND | 250 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 250 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 100 | ug/kg | | | | | | | |
| Bromoform | ND | 250 | ug/kg | | | | | | | |
| Bromomethane | ND | 250 | ug/kg | | | | | | | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| Carbon Disulfide | ND | 250 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 250 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 50 | ug/kg | | | | | | | |
| Chloroethane | ND | 250 | ug/kg | | | | | | | |
| Chloroform | ND | 100 | ug/kg | | | | | | | |
| Chloromethane | ND | 250 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/kg | | | | - | | | |
| 1,2-Dibromoethane (EDB) | ND | 100 | ug/kg | | | | | | | |
| Dibromomethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,4-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Dichlorodifluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 50 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 250 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| | | | <i>3</i> 0 | | | | | | | |

Melissa Evans Project Manager

PKH0446 Page 11 of 35



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0446

Received: 08/24/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------|-----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08 | 8/25/01 | | | | | | | | | |
| Blank Analyzed: 09/04/01 (P1H25 | 501-BLK1) | | | | | | | | | |
| 1,1-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 250 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 500 | ug/kg | | | | | | | |
| Iodomethane | ND | 100 | ug/kg | | | | | | | |
| Isopropylbenzene | ND | 100 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 100 | ug/kg | | | | | | | |
| Methylene chloride | ND | 500 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 500 | ug/kg | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | | | | |
| Naphthalene | ND | 250 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 100 | ug/kg | | | | | | | |
| Styrene | ND | 100 | ug/kg | | | | | | | |
| 1,1,I,2-Tetrachloroethane | ND | 250 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 100 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 100 | ug/kg | | | | | | | |
| Toluene | ND | 100 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| Trichloroethene | ND | 100 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Vinyl acetate | ND | 1200 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 250 | ug/kg | | | | | | | |
| Xylenes, Total | ND | 150 | ug/kg | | | | | | | |
| Surrogate: Dibromofluoromethane | 1350 | | ug/kg | 1250 | | 108 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1450 | | ug/kg | 1250 | | 116 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1380 | | ug/kg | 1250 | | 110 | 70-130 | | | |

Melissa Evans Project Manager

PKH0446 Page 12 of 35



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Report Number:

PKH0446

Sampled: 08/22/01-08/24/01

Received: 08/24/01

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VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|------------|-----------|---------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25 | <u>/01</u> | | | | | | | | | |
| LCS Analyzed: 09/06/01 (P1H2501-B3 | S1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 40.0 | 5-200 | | | |
| Benzene | 1010 | 50 | ug/kg | 1000 | | 101 | 65-130 | | | |
| Bromobenzene | 1020 | 250 | ug/kg | 1000 | | 102 | 60-135 | | | |
| Bromochloromethane | 1070 | 250 | ug/kg | 1000 | | 107 | 60-135 | | | |
| Bromodichloromethane | 971 | 100 | ug/kg | 1000 | | 97.1 | 30-135 | | | |
| Bromoform | 753 | 250 | ug/kg | 1000 | | 75.3 | 60-140 | | | |
| Bromomethane | 570 | 250 | ug/kg | 1000 | | 57.0 | 10-200 | | | |
| 2-Butanone (MEK) | 514 | 500 | ug/kg | 1000 | | 51.4 | 10-160 | | | |
| n-Butylbenzene | 999 | 250 | ug/kg | 1000 | | 99.9 | 65-125 | | | |
| sec-Butylbenzene | 1040 | 250 | ug/kg | 1000 | | 104 | 70-135 | | | |
| tert-Butylbenzene | 1040 | 250 | ug/kg | 1000 | | 104 | 70-130 | | | |
| Carbon Disulfide | 797 | 250 | ug/kg | 1000 | | 79.7 | 20-120 | | | |
| Carbon tetrachloride | 923 | 250 | ug/kg | 1000 | | 92.3 | 70-140 | | | |
| Chlorobenzene | 1060 | 50 | ug/kg | 1000 | | 106 | 75-125 | | | |
| Chloroethane | 564 | 250 | ug/kg | 1000 | | 56.4 | 10-200 | | | |
| Chloroform | 1030 | 100 | ug/kg | 1000 | | 103 | 35-135 | | | |
| Chloromethane | 594 | 250 | ug/kg | 1000 | | 59.4 | 10-200 | | | |
| 2-Chlorotoluene | 1030 | 250 | ug/kg | 1000 | | 103 | 70-135 | | | |
| 4-Chlorotoluene | 1030 | 250 | ug/kg | 1000 | | 103 | 75-135 | | | |
| Dibromochloromethane | 908 | 100 | , ug/kg | 1000 | | 90.8 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 696 | 250 | ug/kg | 1000 | | 69.6 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 910 | 100 | ug/kg | 1000 | | 91.0 | 70-130 | | | |
| Dibromomethane | 995 | 100 | ug/kg | 1000 | | 99.5 | 65-130 | | | |
| 1,2-Dichlorobenzene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-125 | | | |
| 1,3-Dichlorobenzene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-125 | | | |
| 1,4-Dichlorobenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-135 | | | |
| Dichlorodifluoromethane | 385 | 250 | ug/kg | 1000 | | 38.5 | 10-185 | | | |
| 1,1-Dichloroethane | 1030 | 100 | ug/kg | 1000 | | 103 | 60-140 | | | |
| 1,2-Dichloroethane | 1000 | 50 | ug/kg | 1000 | | 100 | 55-135 | | | |
| 1,1-Dichloroethene | 991 | 250 | ug/kg | 1000 | | 99.1 | 55-145 | | | |
| cis-1,2-Dichloroethene | 1030 | 100 | ug/kg | 1000 | | 103 | 60-125 | | | |
| trans-1,2-Dichloroethene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-145 | | | |
| 1,2-Dichloropropane | 1040 | 100 | ug/kg | 1000 | | 104 | 65-130 | | | |
| 1,3-Dichloropropane | 936 | 100 | ug/kg | 1000 | | 93.6 | 65-130 | | | |
| 2,2-Dichloropropane | 666 | 100 | ug/kg | 1000 | | 66.6 | 60-135 | | | |
| 1,1-Dichloropropene | 1020 | 100 | ug/kg | 1000 | | 102 | 65-130 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager

PKH0446 Page 13 of 35



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0446

Received: 08/24/01

METROD BLANKOCIDATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-----------|-----------|-------|-------|--------|--------------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25/0 | <u>)1</u> | | | | | | | | | |
| LCS Analyzed: 09/06/01 (P1H2501-BS | 1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 947 | 100 | ug/kg | 1000 | | 94.7 | 60-125 | | | |
| trans-1,3-Dichloropropene | 871 | 100 | ug/kg | 1000 | | 87 .1 | 50-130 | | | |
| Ethylbenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-125 | | | |
| Hexachlorobutadiene | 905 | 250 | ug/kg | 1000 | | 90.5 | 60-125 | | | |
| 2-Hexanone | 636 | 500 | ug/kg | 1000 | | 63.6 | 25-185 | | | |
| Iodomethane | 1060 | 100 | ug/kg | 1000 | | 106 | 30-155 | | | |
| Isopropylbenzene | 1080 | 100 | ug/kg | 1000 | | 108 | 70-135 | | | |
| p-Isopropyltoluene | 991 | 100 | ug/kg | 1000 | | 99.1 | 65-130 | | | |
| Methylene chloride | 990 | 500 | ug/kg | 1000 | | 99.0 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 719 | 500 | ug/kg | 1000 | | 71.9 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 846 | 250 | ug/kg | 1000 | | 84.6 | 55-135 | | | |
| Naphthalene | 875 | 250 | ug/kg | 1000 | | 87.5 | 45-155 | | | |
| n-Propylbenzene | 1080 | 100 | ug/kg | 1000 | | 108 | 75-135 | | | |
| Styrene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 977 | 250 | ug/kg | 1000 | | 97.7 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 807 | 100 | ug/kg | 1000 | | 80.7 | 60-140 | | | |
| Tetrachloroethene | 1060 | 100 | ug/kg | 1000 | | 106 | 65-130 | | | |
| Toluene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 965 | 250 | ug/kg | 1000 | | 96.5 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 991 | 250 | ug/kg | 1000 | | 99.1 | 55-135 | | | |
| 1,1,1-Trichloroethane | 977 | 100 | ug/kg | 1000 | | 97. 7 | 65-135 | | | |
| 1,1,2-Trichloroethane | 961 | 100 | ug/kg | 1000 | | 96.1 | 65-130 | | | |
| Trichloroethene | 1100 | 100 | ug/kg | 1000 | | 110 | 70-130 | | | |
| Trichlorofluoromethane | 692 | 250 | ug/kg | 1000 | | 69.2 | 10-200 | | | |
| 1,2,3-Trichloropropane | 809 | 500 | ug/kg | 1000 | | 80.9 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 1020 | 100 | ug/kg | 1000 | | 102 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 28.8 | 25-130 | | | |
| Vinyl chloride | 575 | 250 | ug/kg | 1000 | | 57.5 | 10-200 | | | |
| Xylenes, Total | 3160 | 150 | ug/kg | 3000 | | 105 | 70-130 | | * | |
| Surrogate: Dibromofluoromethane | 1290 | | ug/kg | 1250 | | 103 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1310 | | ug/kg | 1250 | | 105 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1320 | | ug/kg | 1250 | | 106 | 70-130 | | | |



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Attention: Jim Clarke

Report Number:

PKH0446

Received: 08/24/01

ZALTUR BEODER BERNARDEN BEN FAL

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|-------------|-----------|-------|-------|--------|--------------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25 | <u>5/01</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/07/01 (P1H25 | 01-BSD1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 44.2 | 5-200 | 9.98 | 35 | |
| Benzene | 916 | 50 | ug/kg | 1000 | | 91.6 | 65-130 | 9.76 | 35 | |
| Bromobenzene | 972 | 250 | ug/kg | 1000 | | 97.2 | 60-135 | 4.82 | 35 | |
| Bromochloromethane | 996 | 250 | ug/kg | 1000 | | 99.6 | 60-135 | 7.16 | 35 | |
| Bromodichloromethane | 924 | 100 | ug/kg | 1000 | | 92.4 | 30-135 | 4.96 | 35 | |
| Bromoform | 812 | 250 | ug/kg | 1000 | | 81.2 | 60-140 | 7.54 | 35 | |
| Bromomethane | 489 | 250 | ug/kg | 1000 | | 48.9 | 10-200 | 15.3 | 35 | |
| 2-Butanone (MEK) | 572 | 500 | ug/kg | 1000 | | 57.2 | 10-160 | 10.7 | 35 | |
| n-Butylbenzene | 970 | 250 | ug/kg | 1000 | | 97.0 | 65-125 | 2.95 | 35 | |
| sec-Butylbenzene | 969 | 250 | ug/kg | 1000 | | 96.9 | 70-135 | 7.07 | 35 | |
| tert-Butylbenzene | 971 | 250 | ug/kg | 1000 | | 97 .1 | 70-130 | 6.86 | 35 | |
| Carbon Disulfide | 698 | 250 | ug/kg | 1000 | | 69.8 | 20-120 | 13.2 | 35 | |
| Carbon tetrachloride | 924 | 250 | ug/kg | 1000 | | 92.4 | 70-140 | 0.108 | 35 | |
| Chlorobenzene | 1010 | 50 | ug/kg | 1000 | | 101 | 75-125 | 4.83 | 35 | |
| Chloroethane | 492 | 250 | ug/kg | 1000 | | 49.2 | 10-200 | 13.6 | 35 | |
| Chloroform | 953 | 100 | ug/kg | 1000 | | 95.3 | 35-135 | 7.77 | 35 | |
| Chloromethane | 475 | 250 | ug/kg | 1000 | | 47.5 | 10-200 | 22.3 | 35 | |
| 2-Chlorotoluene | 968 | 250 | ug/kg | 1000 | | 96.8 | 70-135 | 6.21 | 35 | |
| 4-Chlorotoluene | 961 | 250 | ug/kg | 1000 | | 96.1 | 75-135 | 6.93 | 35 | |
| Dibromochloromethane | 931 | 100 | ug/kg | 1000 | | 93.1 | 35-135 | 2.50 | 35 | |
| 1,2-Dibromo-3-chloropropane | 745 | 250 | ug/kg | 1000 | | 74.5 | 50-155 | 6.80 | 35 | |
| 1,2-Dibromoethane (EDB) | 930 | 100 | ug/kg | 1000 | | 93.0 | 70-130 | 2.17 | 35 | |
| Dibromomethane | 942 | 100 | ug/kg | 1000 | | 94.2 | 65-130 | 5.47 | 35 | |
| 1,2-Dichlorobenzene | 961 | 100 | ug/kg | 1000 | | 96.1 | 70-125 | 7.90 | 35 | |
| 1,3-Dichlorobenzene | 990 | 100 | ug/kg | 1000 | | 99.0 | 70-125 | 4.93 | 35 | |
| 1,4-Dichlorobenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-135 | 4.83 | 35 | |
| Dichlorodifluoromethane | 253 | 250 | ug/kg | 1000 | | 25.3 | 10-185 | 41.4 | 35 | R6 |
| 1,1-Dichloroethane | 940 | 100 | ug/kg | 1000 | | 94.0 | 60-140 | 9.14 | 35 | |
| 1,2-Dichloroethane | 921 | 50 | ug/kg | 1000 | | 92.1 | 55-135 | 8.22 | 35 | |
| 1,1-Dichloroethene | 902 | 250 | ug/kg | 1000 | | 90.2 | 55-145 | 9.40 | 35 | |
| cis-1,2-Dichloroethene | 973 | 100 | ug/kg | 1000 | | 97.3 | 60-125 | 5.69 | 35 | |
| trans-1,2-Dichloroethene | 951 | 100 | ug/kg | 1000 | | 95.1 | 70-145 | 8.94 | 35 | |
| 1,2-Dichloropropane | 967 | 100 | ug/kg | 1000 | | 96.7 | 65-130 | 7.27 | 35 | |
| 1,3-Dichloropropane | 956 | 100 | ug/kg | 1000 | | 95.6 | 65-130 | 2.11 | 35 | |
| 2,2-Dichloropropane | 855 | 100 | ug/kg | 1000 | | 85.5 | 60-135 | 24.9 | 35 | |
| 1,1-Dichloropropene | 939 | 100 | ug/kg | 1000 | • | 93.9 | 65-130 | 8.27 | 35 | |
| | | | | | | | | | | |

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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Report Number:

PKH0446

Received: 08/24/01

MOTHOD BLANKQUIDATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|----------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25/ | 01 | | | | | | | | | |
| LCS Dup Analyzed: 09/07/01 (P1H250 | 01-BSD1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 948 | 100 | ug/kg | 1000 | | 94.8 | 60-125 | 0.106 | 35 | |
| trans-1,3-Dichloropropene | 896 | 100 | ug/kg | 1000 | | 89.6 | 50-130 | 2.83 | 35 | |
| Ethylbenzene | 997 | 100 | ug/kg | 1000 | | 99.7 | 70-125 | 6.13 | 35 | |
| Hexachlorobutadiene | 927 | 250 | ug/kg | 1000 | | 92.7 | 60-125 | 2.40 | 35 | |
| 2-Hexanone | 698 | 500 | ug/kg | 1000 | | 69.8 | 25-185 | 9.30 | 35 | |
| Iodomethane | 965 | 100 | ug/kg | 1000 | | 96.5 | 30-155 | 9.38 | 35 | |
| Isopropylbenzene | 1020 | 100 | ug/kg | 1000 | | 102 | 70-135 | 5.71 | 35 | |
| p-Isopropyltoluene | 942 | 100 | ug/kg | 1000 | | 94.2 | 65-130 | 5.07 | 35 | |
| Methylene chloride | 952 | 500 | ug/kg | 1000 | | 95.2 | 60-140 | 3.91 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 752 | 500 | ug/kg | 1000 | | 75.2 | 10-175 | 4.49 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 876 | 250 | ug/kg | 1000 | | 87.6 | 55-135 | 3.48 | 35 | |
| Naphthalene | 893 | 250 | ug/kg | 1000 | | 89.3 | 45-155 | 2.04 | 35 | |
| n-Propylbenzene | 1030 | 100 | ug/kg | 1000 | | 103 | 75-135 | 4.74 | 35 | |
| Styrene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-130 | 4.83 | 35 | |
| 1,1,1,2-Tetrachloroethane | 987 | 250 | ug/kg | 1000 | | 98.7 | 70-130 | 1.02 | 35 | |
| 1,1,2,2-Tetrachloroethane | 872 | 100 | ug/kg | 1000 | | 87.2 | 60-140 | 7.74 | 35 | |
| Tetrachloroethene | 1010 | 100 | ug/kg | 1000 | | 101 | 65-130 | 4.83 | 35 | |
| Toluene | 958 | 100 | ug/kg | 1000 | | 95.8 | 70-125 | 5.28 | 35 | |
| 1,2,3-Trichlorobenzene | 968 | 250 | ug/kg | 1000 | | 96.8 | 60-135 | 0.310 | 35 | |
| 1,2,4-Trichlorobenzene | 959 | 250 | ug/kg | 1000 | | 95.9 | 55-135 | 3.28 | 35 | |
| 1,1,1-Trichloroethane | 935 | 100 | ug/kg | 1000 | | 93.5 | 65-135 | 4.39 | 35 | |
| 1,1,2-Trichloroethane | 944 | 100 | ug/kg | 1000 | | 94.4 | 65-130 | 1.78 | 35 | |
| Trichloroethene | 987 | 100 | ug/kg | 1000 | | 98.7 | 70-130 | 10.8 | 35 | |
| Trichlorofluoromethane | 593 | 250 | ug/kg | 1000 | | 59.3 | 10-200 | 15.4 | 35 | |
| 1,2,3-Trichloropropane | 845 | 500 | ug/kg | 1000 | | 84.5 | 60-150 | 4.35 | 35 | |
| 1,2,4-Trimethylbenzene | 988 | 100 | ug/kg | 1000 | | 98.8 | 75-130 | 7.03 | 35 | |
| 1,3,5-Trimethylbenzene | 963 | 100 | ug/kg | 1000 | | 96.3 | 70-130 | 5.75 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 77.2 | 25-130 | 91.3 | 35 | R6 |
| Vinyl chloride | 433 | 250 | ug/kg | 1000 | | 43.3 | 10-200 | 28.2 | 35 | |
| Xylenes, Total | 3040 | 150 | ug/kg | 3000 | | 101 | 70-130 | 3.87 | 35 | |
| Surrogate: Dibromofluoromethane | 1240 | | ug/kg | 1250 | | 99.2 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1290 | | ug/kg | 1250 | | 103 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1240 | | ug/kg | 1250 | | 99.2 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place

Phoenix, AZ 85040
Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Spike

Source

%REC

Sampled: 08/22/01-08/24/01

Received: 08/24/01

RPD

Data

Report Number:

Reporting

PKH0446

METHOD BLANK QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers | |
|------------------------------------|--------------|-------|--------------------|-------|--------|------|--------|-----|-------|------------|--|
| Batch: P1H2501 Extracted: 08/ | 25/01 | | | | | | | | | | |
| Matrix Spike Analyzed: 09/05/01 (1 | P1H2501-MS1) | | Source: PKH0445-01 | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | ND | 87.5 | 5-200 | | | | |
| Benzene | 811 | 50 | ug/kg | 1000 | ND | 81.1 | 65-130 | | | | |
| Bromobenzene | 804 | 250 | ug/kg | 1000 | ND | 80.4 | 60-135 | | | | |
| Bromochloromethane | 811 | 250 | ug/kg | 1000 | ND | 81.1 | 60-135 | | | | |
| Bromodichloromethane | 792 | 100 | ug/kg | 1000 | ND | 79.2 | 30-135 | | | | |
| Bromoform | 756 | 250 | ug/kg | 1000 | ND | 75.6 | 60-140 | | | | |
| Bromomethane | ND | 250 | ug/kg | 1000 | ND | 12.0 | 10-200 | | | | |
| 2-Butanone (MEK) | 872 | 500 | ug/kg | 1000 | ND | 87.2 | 10-160 | | | | |
| n-Butylbenzene | 753 | 250 | ug/kg | 1000 | ND | 75.3 | 65-125 | | | | |
| sec-Butylbenzene | 826 | 250 | ug/kg | 1000 | ND | 82.6 | 70-135 | | | | |
| tert-Butylbenzene | 802 | 250 | ug/kg | 1000 | ND | 80.2 | 70-130 | | | | |
| Carbon Disulfide | 638 | 250 | ug/kg | 1000 | ND | 63.8 | 20-120 | | | | |
| Carbon tetrachloride | 782 | 250 | ug/kg | 1000 | ND | 78.2 | 70-140 | | | | |
| Chlorobenzene | 796 | 50 | ug/kg | 1000 | ND | 79.6 | 75-125 | | | | |
| Chloroethane | ND | 250 | ug/kg | 1000 | ND | 20.5 | 10-200 | | | | |
| Chloroform | 764 | 100 | ug/kg | 1000 | ND | 76.4 | 35-135 | | | | |
| Chloromethane | 594 | 250 | ug/kg | 1000 | ND | 59.4 | 10-200 | | | | |
| 2-Chlorotoluene | 817 | 250 | ug/kg | 1000 | ND | 81.7 | 70-135 | | | | |
| 4-Chlorotoluene | 832 | 250 | ug/kg | 1000 | ND | 83.2 | 75-135 | | | | |
| Dibromochloromethane | 748 | 100 | ug/kg | 1000 | ND | 74.8 | 35-135 | | | | |
| 1,2-Dibromo-3-chloropropane | 737 | 250 | ug/kg | 1000 | ND | 73.7 | 50-155 | * | | | |
| 1,2-Dibromoethane (EDB) | 750 | 100 | ug/kg | 1000 | ND | 75.0 | 70-130 | | | | |
| Dibromomethane | 790 | 100 | ug/kg | 1000 | ND | 79.0 | 65-130 | | | | |
| 1,2-Dichlorobenzene | 789 | 100 | ug/kg | 1000 | ND | 78.9 | 70-125 | | | | |
| 1,3-Dichlorobenzene | 810 | 100 | ug/kg | 1000 | ND | 81.0 | 70-125 | | | | |
| 1,4-Dichlorobenzene | 822 | 100 | ug/kg | 1000 | ND | 82.2 | 70-135 | | | | |
| Dichlorodifluoromethane | 303 | 250 | ug/kg | 1000 | ND | 30.3 | 10-185 | | | | |
| 1,1-Dichloroethane | 731 | 100 | ug/kg | 1000 | ND | 73.1 | 60-140 | | | | |
| 1,2-Dichloroethane | 777 | 50 | ug/kg | 1000 | ND | 77.7 | 55-135 | | | | |
| 1,1-Dichloroethene | 752 | 250 | ug/kg | 1000 | ND | 75.2 | 55-145 | | | | |
| cis-1,2-Dichloroethene | 807 | 100 | ug/kg | 1000 | ND | 80.7 | 60-125 | | | | |
| trans-1,2-Dichloroethene | 776 | 100 | ug/kg | 1000 | ND | 77.6 | 70-145 | | | | |
| 1,2-Dichloropropane | 821 | 100 | ug/kg | 1000 | ND | 82.1 | 65-130 | | | | |
| 1,3-Dichloropropane | 792 | 100 | ug/kg | 1000 | ND | 79.2 | 65-130 | | | | |
| 2,2-Dichloropropane | 707 | 100 | ug/kg | 1000 | ND | 70.7 | 60-135 | | | | |
| 1,1-Dichloropropene | 780 | 100 | ug/kg | 1000 | ND | 78.0 | 65-130 | | | | |
| | | | | | | | | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

Report Number: PKH0446

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-------------|-----------|-------|-------|-----------|--------------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25 | <u>5/01</u> | | | | | | | | | |
| Matrix Spike Analyzed: 09/05/01 (P1 | H2501-MS1) | | | | Source: F | KH0445- | 01 | | | |
| cis-1,3-Dichloropropene | 811 | 100 | ug/kg | 1000 | ND | 81.1 | 60-125 | | | |
| trans-1,3-Dichloropropene | 737 | 100 | ug/kg | 1000 | ND | 73.7 | 50-130 | | | |
| Ethylbenzene | 816 | 100 | ug/kg | 1000 | ND | 81.6 | 70-125 | | | |
| Hexachlorobutadiene | 521 | 250 | ug/kg | 1000 | ND | 52.1 | 60-125 | | | M2 |
| 2-Hexanone | 768 | 500 | ug/kg | 1000 | ND | 76.8 | 25-185 | | | |
| Iodomethane | 624 | 100 | ug/kg | 1000 | ND | 62.4 | 30-155 | | | |
| Isopropylbenzene | 801 | 100 | ug/kg | 1000 | ND | 80.1 | 70-135 | | | |
| p-Isopropyltoluene | 778 | 100 | ug/kg | 1000 | ND | 7 7.8 | 65-130 | | | |
| Methylene chloride | 864 | 500 | ug/kg | 1000 | ND | 86.4 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 76 5 | 500 | ug/kg | 1000 | ND | 76.5 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 772 | 250 | ug/kg | 1000 | ND | 7 7.2 | 55-135 | | | |
| Naphthalene | 705 | 250 | ug/kg | 1000 | ND | 70.5 | 45-155 | | | |
| n-Propylbenzene | 844 | 100 | ug/kg | 1000 | ND | 84.4 | 75-135 | | | |
| Styrene | 805 | 100 | ug/kg | 1000 | ND | 80.5 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 778 | 250 | ug/kg | 1000 | ND | 77.8 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 774 | 100 | ug/kg | 1000 | ND | 77.4 | 60-140 | | | |
| Tetrachloroethene | 800 | 100 | ug/kg | 1000 | ND | 80.0 | 65-130 | | | |
| Toluene | 792 | 100 | ug/kg | 1000 | ND | 79.2 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 646 | 250 | ug/kg | 1000 | ND | 64.6 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 703 | 250 | ug/kg | 1000 | ND | 70.3 | 55-135 | | | |
| 1,1,1-Trichloroethane | 770 | 100 | ug/kg | 1000 | ND | 7 7.0 | 65-135 | | | |
| 1,1,2-Trichloroethane | 764 | 100 | ug/kg | 1000 | ND | 76.4 | 65-130 | | | |
| Trichloroethene | 824 | 100 | ug/kg | 1000 | ND | 82.4 | 70-130 | | | |
| Trichlorofluoromethane | 555 | 250 | ug/kg | 1000 | ND | 55.5 | 10-200 | | | |
| 1,2,3-Trichloropropane | 798 | 500 | ug/kg | 1000 | ND | 79.8 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 842 | 100 | ug/kg | 1000 | ND | 84.2 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 830 | 100 | ug/kg | 1000 | ND | 83.0 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | 34.4 | 25-130 | | | |
| Vinyl chloride | 640 | 250 | ug/kg | 1000 | ND | 64.0 | 10-200 | | | |
| Xylenes, Total | 2420 | 150 | ug/kg | 3000 | ND | 80.7 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 917 | | ug/kg | 1250 | | 73.4 | 70-125 | | | |
| Surrogate: Toluene-d8 | 920 | | ug/kg | 1250 | | 73.6 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1030 | | ug/kg | 1250 | | 82.4 | 70-130 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

Report Number:

PKH0446

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|----------------------------------|-----------------|-----------|-------|-------|-----------|--------------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08 | 3/25/01 | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/05 | 5/01 (P1H2501-M | ISD1) | | | Source: F | KH0445- | -01 | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | ND | 78.8 | 5-200 | 10.5 | 35 | |
| Benzene | 829 | 50 | ug/kg | 1000 | ND | 82.9 | 65-130 | 2.20 | 35 | |
| Bromobenzene | 815 | 250 | ug/kg | 1000 | ND | 81.5 | 60-135 | 1.36 | 35 | |
| Bromochloromethane | 797 | 250 | ug/kg | 1000 | ND | 79.7 | 60-135 | 1.74 | 35 | |
| Bromodichloromethane | 818 | 100 | ug/kg | 1000 | ND | 81.8 | 30-135 | 3.23 | 35 | |
| Bromoform | 748 | 250 | ug/kg | 1000 | ND | 74.8 | 60-140 | 1.06 | 35 | |
| Bromomethane | ND | 250 | ug/kg | 1000 | ND | 10.0 | 10-200 | 18.2 | 35 | |
| 2-Butanone (MEK) | 822 | 500 | ug/kg | 1000 | ND | 82.2 | 10-160 | 5.90 | 35 | |
| n-Butylbenzene | 731 | 250 | ug/kg | 1000 | ND | 73.1 | 65-125 | 2.96 | 35 | |
| sec-Butylbenzene | 789 | 250 | ug/kg | 1000 | ND | 78.9 | 70-135 | 4.58 | 35 | |
| tert-Butylbenzene | 805 | 250 | ug/kg | 1000 | ND | 80.5 | 70-130 | 0.373 | 35 | |
| Carbon Disulfide | 656 | 250 | ug/kg | 1000 | ND | 65.6 | 20-120 | 2.78 | 35 | |
| Carbon tetrachloride | 788 | 250 | ug/kg | 1000 | ND | 78.8 | 70-140 | 0.764 | 35 | |
| Chlorobenzene | 833 | 50 | ug/kg | 1000 | ND | 83.3 | 75-125 | 4.54 | 35 | |
| Chloroethane | ND | 250 | ug/kg | 1000 | ND | 20.7 | 10-200 | 0.971 | 35 | |
| Chloroform | 745 | 100 | ug/kg | 1000 | ND | 74.5 | 35-135 | 2.52 | 35 | |
| Chloromethane | 611 | 250 | ug/kg | 1000 | ND | 61.1 | 10-200 | 2.82 | 35 | |
| 2-Chlorotoluene | 813 | 250 | ug/kg | 1000 | ND | 81.3 | 70-135 | 0.491 | 35 | |
| 4-Chlorotoluene | 828 | 250 | ug/kg | 1000 | ND | 82.8 | 75-135 | 0.482 | 35 | |
| Dibromochloromethane | 766 | 100 | ug/kg | 1000 | ND | 76.6 | 35-135 | 2.38 | 35 | |
| 1,2-Dibromo-3-chloropropane | 652 | 250 | ug/kg | 1000 | ND | 65.2 | 50-155 | 12.2 | 35 | |
| 1,2-Dibromoethane (EDB) | 751 | 100 | ug/kg | 1000 | ND | 75.1 | 70-130 | 0.133 | 35 | |
| Dibromomethane | 793 | 100 | ug/kg | 1000 | ND | 79.3 | 65-130 | 0.379 | 35 | |
| 1,2-Dichlorobenzene | 802 | 100 | ug/kg | 1000 | ND | 80.2 | 70-125 | 1.63 | 35 | |
| 1,3-Dichlorobenzene | 829 | 100 | ug/kg | 1000 | ND | 82.9 | 70-125 | 2.32 | 35 | |
| 1,4-Dichlorobenzene | 829 | 100 | ug/kg | 1000 | ND | 82.9 | 70-135 | 0.848 | 35 | |
| Dichlorodifluoromethane | 368 | 250 | ug/kg | 1000 | ND | 36.8 | 10-185 | 19.4 | 35 | |
| 1,1-Dichloroethane | 735 | 100 | ug/kg | 1000 | ND | 73.5 | 60-140 | 0.546 | 35 | |
| 1,2-Dichloroethane | 806 | 50 | ug/kg | 1000 | ND | 80.6 | 55-135 | 3.66 | 35 | |
| 1,1-Dichloroethene | 780 | 250 | ug/kg | 1000 | ND | 7 8.0 | 55-145 | 3.66 | 35 | |
| cis-1,2-Dichloroethene | 816 | 100 | ug/kg | 1000 | ND | 81.6 | 60-125 | 1.11 | 35 | |
| trans-1,2-Dichloroethene | 807 | 100 | ug/kg | 1000 | ND | 80.7 | 70-145 | 3.92 | 35 | |
| 1,2-Dichloropropane | 847 | 100 | ug/kg | 1000 | ND | 84.7 | 65-130 | 3.12 | 35 | |
| 1,3-Dichloropropane | 778 | 100 | ug/kg | 1000 | ND | 77.8 | 65-130 | 1.78 | 35 | |
| 2,2-Dichloropropane | 765 | 100 | ug/kg | 1000 | ND | 76.5 | 60-135 | 7.88 | 35 | |
| 1,1-Dichloropropene | 785 | 100 | ug/kg | 1000 | ND | 78.5 | 65-130 | 0.639 | 35 | |
| | | | 5 8 | | | | | | | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

Report Number:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

PKH0446

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25 | <u>/01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/05/01 | (P1H2501-M | ISD1) | | | Source: P | KH0445- | 01 | | | |
| cis-1,3-Dichloropropene | 841 | 100 | ug/kg | 1000 | ND | 84.1 | 60-125 | 3.63 | 35 | |
| trans-1,3-Dichloropropene | 727 | 100 | ug/kg | 1000 | ND | 72.7 | 50-130 | 1.37 | 35 | |
| Ethylbenzene | 854 | 100 | ug/kg | 1000 | ND | 85.4 | 70-125 | 4.55 | 35 | |
| Hexachlorobutadiene | 827 | 250 | ug/kg | 1000 | ND | 82.7 | 60-125 | 45.4 | 35 | Q11 |
| 2-Hexanone | 718 | 500 | ug/kg | 1000 | ND | 71.8 | 25-185 | 6.73 | 35 | |
| Iodomethane | 689 | 100 | ug/kg | 1000 | ND | 68.9 | 30-155 | 9.90 | 35 | |
| Isopropylbenzene | 830 | 100 | ug/kg | 1000 | ND | 83.0 | 70-135 | 3.56 | 35 | |
| p-Isopropyltoluene | 752 | 100 | ug/kg | 1000 | ND | 75.2 | 65-130 | 3.40 | 35 | |
| Methylene chloride | 862 | 500 | ug/kg | 1000 | ND | 86.2 | 60-140 | 0.232 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 730 | 500 | ug/kg | 1000 | ND | 73.0 | 10-175 | 4.68 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 746 | 250 | ug/kg | 1000 | ND | 74.6 | 55-135 | 3.43 | 35 | |
| Naphthalene | 688 | 250 | ug/kg | 1000 | ND | 68.8 | 45-155 | 2.44 | 35 | |
| n-Propylbenzene | 832 | 100 | ug/kg | 1000 | ND | 83.2 | 75-135 | 1.43 | 35 | |
| Styrene | 824 | 100 | ug/kg | 1000 | ND | 82.4 | 70-130 | 2.33 | 35 | |
| 1,1,1,2-Tetrachloroethane | 780 | 250 | ug/kg | 1000 | ND | 78.0 | 70-130 | 0.257 | 35 | |
| 1,1,2,2-Tetrachloroethane | 722 | 100 | ug/kg | 1000 | ND | 72.2 | 60-140 | 6.95 | 35 | |
| Tetrachloroethene | 819 | 100 | ug/kg | 1000 | ND | 81.9 | 65-130 | 2.35 | 35 | |
| Toluene | 811 | 100 | ug/kg | 1000 | ND | 81.1 | 70-125 | 2.37 | 35 | |
| 1,2,3-Trichlorobenzene | 709 | 250 | ug/kg | 1000 | ND | 70.9 | 60-135 | 9.30 | 35 | |
| 1,2,4-Trichlorobenzene | 730 | 250 | ug/kg | 1000 | ND | 73.0 | 55-135 | 3.77 | 35 | |
| 1,1,1-Trichloroethane | 788 | 100 | ug/kg | 1000 | ND | 78.8 | 65-135 | 2.31 | 35 | |
| 1,1,2-Trichloroethane | 768 | 100 | ug/kg | 1000 | ND | 76.8 | 65-130 | 0.522 | 35 | |
| Trichloroethene | 858 | 100 | ug/kg | 1000 | ND | 85.8 | 70-130 | 4.04 | 35 | |
| Trichlorofluoromethane | 626 | 250 | ug/kg | 1000 | ND | 62.6 | 10-200 | 12.0 | 35 | |
| 1,2,3-Trichloropropane | 718 | 500 | ug/kg | 1000 | ND | 71.8 | 60-150 | 10.6 | 35 | |
| 1,2,4-Trimethylbenzene | 846 | 100 | ug/kg | 1000 | ND | 84.6 | 75-130 | 0.474 | 35 | |
| 1,3,5-Trimethylbenzene | 818 | 100 | ug/kg | 1000 | ND | 81.8 | 70-130 | 1.46 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | 30.4 | 25-130 | 12.3 | 35 | |
| Vinyl chloride | 672 | 250 | ug/kg | 1000 | ND | 67.2 | 10-200 | 4.88 | 35 | |
| Xylenes, Total | 2470 | 150 | ug/kg | 3000 | ND | 82.3 | 70-130 | 2.04 | 35 | |
| Surrogate: Dibromofluoromethane | 900 | | ug/kg | 1250 | | 72.0 | 70-125 | | | |
| Surrogate: Toluene-d8 | 913 | | ug/kg | 1250 | | 73.0 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1030 | | ug/kg | 1250 | | 82.4 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0446

Received: 08/24/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0301 Extracted: 09/01/0 |)1_ | | | | | | | | | |
| Blank Analyzed: 09/01/01 (P1I0301-B | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | ٠ | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Report Number:

PKH0446

Received: 08/24/01

NIBITIOD BLANK(OF BALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P110301 Extracted: 09/01/0 | <u>01</u> | | | | | | | | | |
| Blank Analyzed: 09/01/01 (P1I0301-B | LK1) | | | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | V1,L3 |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| Surrogate: Dibromofluoromethane | 26.8 | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.6 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 27.7 | | ug/l | 25.0 | | 111 | 80-120 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

Report Number:

PKH0446

MELITOLBLANK (OCTAVA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Result Puloside Result Result Puloside Result Result Puloside Result Puloside Result Resul | | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--|-------------------------------------|--------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| LCS Analyzed: 09/01/01 (P110301-BST) | Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Retrotine | Batch: P1I0301 Extracted: 09/01/0 | 1_ | | | | | | - | | | |
| Benzene 21.3 2.0 ug/l 25.0 85.2 80-120 | LCS Analyzed: 09/01/01 (P1I0301-BS1 | .) | | | | | | | | | |
| Bromobenzene 23.8 5.0 ug/l 25.0 95.2 80-120 | Acetone | 30.6 | 20 | ug/l | 25.0 | | 122 | 30-200 | | | |
| Bromochloromethane 25.2 5.0 ug/l 25.0 36.0 101 80-120 | Benzene | 21.3 | 2.0 | ug/l | 25.0 | | 85.2 | 80-120 | | | 4 |
| Bromodichloromethane | Bromobenzene | 23.8 | 5.0 | ug/l | 25.0 | | 95.2 | 80-120 | | | |
| Bromoform 24.7 5.0 ug/l 25.0 98.8 60-140 | Bromochloromethane | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| Bromomethane 23.8 5.0 ug/l 25.0 95.2 60-150 | Bromodichloromethane | 21.0 | 2.0 | ug/l | 25.0 | | 84.0 | 80-130 | | | |
| 2-Butanone (MEK) 26.5 10 ug/l 25.0 106 30-185 -Butylbenzene 22.8 5.0 ug/l 25.0 91.2 75-130 -Butylbenzene 23.9 5.0 ug/l 25.0 95.6 80-125 -Butylbenzene 24.1 5.0 ug/l 25.0 96.4 80-120 | Bromoform | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 60-140 | | | |
| No. No. | Bromomethane | | 5.0 | ug/l | 25.0 | | 95.2 | 60-150 | | | |
| Sec-Butylbenzene 23.9 5.0 ug/l 25.0 95.6 80-125 | 2-Butanone (MEK) | 26.5 | 10 | ug/l | 25.0 | | 106 | 30-185 | | | |
| tert-Buylbenzene 24.1 5.0 ug/l 25.0 96.4 80-120 Carbon Disulfide 21.2 5.0 ug/l 25.0 84.8 65-120 Carbon tetrachloride 23.4 5.0 ug/l 25.0 93.6 75-150 Chloroethane 25.3 2.0 ug/l 25.0 101 80-120 Chloroform 23.1 2.0 ug/l 25.0 92.4 80-120 Chloromethane 19.6 5.0 ug/l 25.0 92.4 80-120 Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 4-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 4-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 1,2-Dibromo-3-chloropropane 24.5 2.0 ug/l 25.0 98.0 70-150 1,2-Dichlorobenzene 23.7 2.0 ug/l 25.0 10.7 75-120 | n-Butylbenzene | 22.8 | 5.0 | ug/l | 25.0 | | 91.2 | 75-130 | | | |
| Carbon Disulfide 21.2 5.0 ug/l 25.0 84.8 65-120 Carbon tetrachloride 23.4 5.0 ug/l 25.0 93.6 75-150 Chloroethane 25.3 2.0 ug/l 25.0 101 80-120 Chloroform 23.1 2.0 ug/l 25.0 92.4 80-120 Chloromethane 19.6 5.0 ug/l 25.0 98.8 80-120 2-Chlorotoluene 24.2 5.0 ug/l 25.0 98.8 80-120 4-Chlorotoluene 24.2 5.0 ug/l 25.0 98.0 70-150 4-Chlorotoluene 24.2 5.0 ug/l 25.0 98.0 70-150 4-Chlorotoluene 24.5 2.0 ug/l 25.0 98.0 70-150 1,2-Dibromo-schane (EDB) 26.8 2.0 ug/l 25.0 98.0 70-150 1,2-Dichlorobenzene 23.7 2.0 ug/l 25.0 94.8 80-120 | sec-Butylbenzene | 23.9 | 5.0 | ug/l | 25.0 | | 95.6 | 80-125 | | | |
| Carbon tetrachloride 23.4 5.0 ug/l 25.0 93.6 75-150 Chlorobenzene 25.3 2.0 ug/l 25.0 101 80-120 Chloroethane 25.8 5.0 ug/l 25.0 103 80-125 Chloroform 23.1 2.0 ug/l 25.0 92.4 80-120 Chlorodhane 19.6 5.0 ug/l 25.0 78.4 60-125 2-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 4-Chlorotoluene 24.2 5.0 ug/l 25.0 98.0 70-150 1,2-Dibromochloromethane 24.5 2.0 ug/l 25.0 98.0 70-150 1,2-Dibromochlane (EDB) 26.8 2.0 ug/l 25.0 89.2 50-145 1,2-Dichlorobenzene 23.7 2.0 ug/l 25.0 89.6 80-120 1,2-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.8 80-120 < | tert-Butylbenzene | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 80-120 | | | |
| Chlorobenzene 25.3 2.0 ug/l 25.0 101 80-120 Chloroethane 25.8 5.0 ug/l 25.0 92.4 80-120 Chloroform 19.6 5.0 ug/l 25.0 96.8 80-120 Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 | Carbon Disulfide | 21.2 | 5.0 | ug/l | 25.0 | | 84.8 | 65-120 | | | |
| Chloroethane 25.8 5.0 ug/l 25.0 103 80-125 Chloroform 23.1 2.0 ug/l 25.0 92.4 80-120 Chloromethane 19.6 5.0 ug/l 25.0 78.4 60-125 2-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 4-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 Dibromochloromethane 24.5 2.0 ug/l 25.0 98.0 70-150 1,2-Dibromo-3-chloropropane 22.3 5.0 ug/l 25.0 89.2 50-145 1,2-Dibromoethane (EDB) 26.8 2.0 ug/l 25.0 89.6 80-120 1jbromoethane 22.4 2.0 ug/l 25.0 94.8 80-120 1,2-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.4 80-120 1,1-Dichlorodifluoromethane 18.5 5.0 ug/l 25.0 96.0 80- | Carbon tetrachloride | 23.4 | 5.0 | ug/l | 25.0 | | 93.6 | 75-150 | | | |
| Chloroform 23.1 2.0 ug/l 25.0 92.4 80-120 Chloromethane 19.6 5.0 ug/l 25.0 78.4 60-125 2-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 4-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 Dibromochloromethane 24.5 2.0 ug/l 25.0 98.0 70-150 1,2-Dibromo-3-chloropropane 22.3 5.0 ug/l 25.0 89.2 50-145 1,2-Dibromochlane (EDB) 26.8 2.0 ug/l 25.0 107 75-120 Dibromomethane (EDB) 26.8 2.0 ug/l 25.0 89.6 80-120 1,1-Dibchlorobenzene 23.7 2.0 ug/l 25.0 89.6 80-120 1,3-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.8 80-120 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 94.8 80-120 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorodifluoromethane 18.5 5.0 ug/l 25.0 96.0 80-120 1,1-Dichlorodifluoromethane 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorotehane 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorotehane 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorotehane 24.4 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorotehane 24.4 2.0 ug/l 25.0 96.0 80-120 1,2-Dichlorotehane 24.4 2.0 ug/l 25.0 97.6 80-120 1,1-Dichlorotehane 24.4 2.0 ug/l 25.0 97.6 80-120 1,1-Dichlorotehene 24.4 2.0 ug/l 25.0 97.6 80-120 1,2-Dichlorotehene 24.2 2.0 ug/l 25.0 96.8 80-120 1,3-Dichlorotehene 24.2 2.0 ug/l 25.0 96.8 80-120 1,3-Dichlorotehene 24.2 2.0 ug/l 25.0 96.8 80-120 1,3-Dichlorotehene 25.4 2.0 ug/l 25.0 96.8 80-120 | | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| Chloromethane 19.6 5.0 ug/l 25.0 78.4 60-125 2-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 4-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 Dibromochloromethane 24.5 2.0 ug/l 25.0 98.0 70-150 1,2-Dibromo-3-chloropropane 22.3 5.0 ug/l 25.0 89.2 50-145 1,2-Dibromo-3-chloropropane 22.3 5.0 ug/l 25.0 89.2 50-145 1,2-Dibromoethane (EDB) 26.8 2.0 ug/l 25.0 89.6 80-120 Dibromomethane 22.4 2.0 ug/l 25.0 94.8 80-120 1,3-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.8 80-120 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorothane 24.0 2.0 ug/l 25.0 96.0 | Chloroethane | 25.8 | 5.0 | ug/l | 25.0 | | 103 | 80-125 | | | |
| 2-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 Dibromochloromethane 24.5 2.0 ug/l 25.0 98.0 70-150 1,2-Dibromochloromethane (EDB) 26.8 2.0 ug/l 25.0 89.6 80-120 Dibromochloromethane (EDB) 26.8 2.0 ug/l 25.0 89.6 80-120 Dibromochloromethane 22.4 2.0 ug/l 25.0 89.6 80-120 1,2-Dichlorobenzene 23.7 2.0 ug/l 25.0 94.8 80-120 1,3-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.8 80-120 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 96.0 80-120 Dichlorodifluoromethane 18.5 5.0 ug/l 25.0 96.0 80-120 Dichlorodifluoromethane 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorobenzene 23.4 5.0 ug/l 25.0 96.0 80-120 1,1-Dichlorothane 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorothane 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorothane 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorothene 23.4 5.0 ug/l 25.0 93.6 80-120 1,1-Dichlorothene 24.4 2.0 ug/l 25.0 93.6 80-120 1,1-Dichlorothene 24.4 2.0 ug/l 25.0 93.6 80-120 1,1-Dichlorothene 24.4 2.0 ug/l 25.0 96.8 80-120 1,2-Dichlorothene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 25.4 2.0 ug/l 25.0 96.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 96.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 96.8 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 96.8 84.8 80-120 | Chloroform | 23.1 | 2.0 | ug/l | 25.0 | | 92.4 | 80-120 | | | |
| 4-Chlorotoluene 24.2 5.0 ug/l 25.0 96.8 80-120 Dibromochloromethane 24.5 2.0 ug/l 25.0 98.0 70-150 1,2-Dibromo-3-chloropropane 22.3 5.0 ug/l 25.0 89.2 50-145 1,2-Dibromoethane (EDB) 26.8 2.0 ug/l 25.0 89.6 80-120 1,2-Dichlorobenzene 23.7 2.0 ug/l 25.0 94.8 80-120 1,3-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.4 80-120 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 96.0 80-120 1,4-Dichloroethane 18.5 5.0 ug/l 25.0 96.0 80-120 1,1-Dichloroethane 24.0 2.0 ug/l 25.0 96.0 80-120 1,2-Dichloroethane 20.8 2.0 ug/l 25.0 93.6 80-120 1,1-Dichloroethene 24.4 2.0 ug/l 25.0 93.6 | Chloromethane | 19.6 | 5.0 | ug/l | 25.0 | | 78.4 | 60-125 | | | |
| Dibromochloromethane 24.5 2.0 ug/l 25.0 98.0 70-150 1,2-Dibromo-3-chloropropane 22.3 5.0 ug/l 25.0 89.2 50-145 1,2-Dibromoethane (EDB) 26.8 2.0 ug/l 25.0 107 75-120 Dibromomethane 22.4 2.0 ug/l 25.0 89.6 80-120 1,2-Dichlorobenzene 23.7 2.0 ug/l 25.0 94.8 80-120 1,3-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.4 80-120 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichloromethane 18.5 5.0 ug/l 25.0 96.0 80-120 1,1-Dichlorothane 24.0 2.0 ug/l 25.0 96.0 80-120 1,2-Dichlorothane 20.8 2.0 ug/l 25.0 96.0 80-120 1,1-Dichlorothane 23.4 5.0 ug/l 25.0 93.6 80-120 1,1-Dichlorothene 24.4 2.0 ug/l 25.0 97.6 80-120 1,2-Dichlorothene 24.4 2.0 ug/l 25.0 96.8 80-120 1,2-Dichlorothene 24.4 2.0 ug/l 25.0 96.8 80-120 1,2-Dichlorothene 24.4 2.0 ug/l 25.0 96.8 80-120 1,2-Dichlorothene 24.2 2.0 ug/l 25.0 96.8 80-120 1,3-Dichloropropane 21.2 2.0 ug/l 25.0 96.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 94.4 75-135 | 2-Chlorotoluene | 24.2 | 5.0 | ug/l | 25.0 | | 96.8 | 80-120 | | | |
| 1,2-Dibromo-3-chloropropane 22.3 5.0 ug/l 25.0 89.2 50-145 1,2-Dibromoethane (EDB) 26.8 2.0 ug/l 25.0 107 75-120 1,2-Dichlorobenzene 22.4 2.0 ug/l 25.0 89.6 80-120 1,2-Dichlorobenzene 23.7 2.0 ug/l 25.0 94.8 80-120 1,3-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.4 80-120 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 96.0 80-120 1,1-Dichloroethane 18.5 5.0 ug/l 25.0 96.0 80-120 1,1-Dichloroethane 24.0 2.0 ug/l 25.0 96.0 80-120 1,2-Dichloroethane 20.8 2.0 ug/l 25.0 96.0 80-120 1,1-Dichloroethane 23.4 5.0 ug/l 25.0 93.6 80-120 1,1-Dichloroethene 24.4 2.0 ug/l 25.0 97.6 80-120 1,2-Dichloroethene 24.4 2.0 ug/l 25.0 97.6 80-120 1,2-Dichloroethene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 96.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 94.4 75-135 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 3,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 3,2-Dichloropropane 23.6 20 ug/l 25.0 94.4 75-135 3,2-Dichloropropane 23.6 20 ug/l 25.0 94.4 75-135 3,2-Dichloropropane 23.6 20 ug/l 25.0 94.4 75-135 3,3-Dichloropropane 23.6 20 ug/l 25.0 94.4 75-135 3,4-Dichloropropane 23.6 20 ug/l 25.0 94.4 75-135 3,5-Dichloropropane 23.6 20 ug/l | 4-Chlorotoluene | 24.2 | 5.0 | ug/l | 25.0 | | 96.8 | 80-120 | | | |
| 1,2-Dibromoethane (EDB) 26.8 2.0 ug/l 25.0 107 75-120 | | 24,5 | | ug/l | 25.0 | | 98.0 | 70-150 | | | |
| Dibromomethane 22.4 2.0 ug/l 25.0 89.6 80-120 1,2-Dichlorobenzene 23.7 2.0 ug/l 25.0 94.8 80-120 1,3-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.4 80-120 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 96.0 80-120 Dichlorodifluoromethane 18.5 5.0 ug/l 25.0 74.0 25-140 1,1-Dichloroethane 24.0 2.0 ug/l 25.0 96.0 80-120 1,2-Dichloroethene 20.8 2.0 ug/l 25.0 93.6 80-120 1,1-Dichloroethene 23.4 5.0 ug/l 25.0 97.6 80-120 trans-1,2-Dichloroethene 24.4 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 96.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 94.4 <th></th> <th></th> <th>5.0</th> <th>ug/l</th> <th>25.0</th> <th></th> <th>89.2</th> <th>50-145</th> <th></th> <th></th> <th></th> | | | 5.0 | ug/l | 25.0 | | 89.2 | 50-145 | | | |
| 1,2-Dichlorobenzene 23.7 2.0 ug/l 25.0 94.8 80-120 1,3-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.4 80-120 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 96.0 80-120 Dichlorodifluoromethane 18.5 5.0 ug/l 25.0 96.0 80-120 1,1-Dichloroethane 24.0 2.0 ug/l 25.0 96.0 80-120 1,2-Dichloroethane 20.8 2.0 ug/l 25.0 83.2 80-120 1,1-Dichloroethene 23.4 5.0 ug/l 25.0 93.6 80-120 1,1-Dichloroethene 24.4 2.0 ug/l 25.0 97.6 80-120 trans-1,2-Dichloroethene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 94.4 75-135 | 1,2-Dibromoethane (EDB) | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 75-120 | | | |
| 1,3-Dichlorobenzene 23.6 2.0 ug/l 25.0 94.4 80-120 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 96.0 80-120 Dichlorodifluoromethane 18.5 5.0 ug/l 25.0 74.0 25-140 1,1-Dichloroethane 24.0 2.0 ug/l 25.0 96.0 80-120 1,2-Dichloroethane 20.8 2.0 ug/l 25.0 83.2 80-120 1,1-Dichloroethene 23.4 5.0 ug/l 25.0 93.6 80-120 cis-1,2-Dichloroethene 24.4 2.0 ug/l 25.0 97.6 80-120 trans-1,2-Dichloroethene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 94.4 75-135 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | | 22.4 | 2.0 | ug/1 | 25.0 | | 89.6 | 80-120 | | | |
| 1,4-Dichlorobenzene 24.0 2.0 ug/l 25.0 96.0 80-120 Dichlorodifluoromethane 18.5 5.0 ug/l 25.0 74.0 25-140 1,1-Dichloroethane 24.0 2.0 ug/l 25.0 96.0 80-120 1,2-Dichloroethane 20.8 2.0 ug/l 25.0 83.2 80-120 1,1-Dichloroethene 23.4 5.0 ug/l 25.0 93.6 80-120 cis-1,2-Dichloroethene 24.4 2.0 ug/l 25.0 97.6 80-120 trans-1,2-Dichloroethene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 102 80-120 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | 1,2-Dichlorobenzene | 23. 7 | 2.0 | ug/l | 25.0 | | 94.8 | 80-120 | | | |
| Dichlorodifluoromethane 18.5 5.0 ug/l 25.0 74.0 25-140 1,1-Dichloroethane 24.0 2.0 ug/l 25.0 96.0 80-120 1,2-Dichloroethane 20.8 2.0 ug/l 25.0 83.2 80-120 1,1-Dichloroethene 23.4 5.0 ug/l 25.0 93.6 80-120 cis-1,2-Dichloroethene 24.4 2.0 ug/l 25.0 97.6 80-120 trans-1,2-Dichloroethene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 102 80-120 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | 1,3-Dichlorobenzene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | | | |
| 1,1-Dichloroethane 24.0 2.0 ug/l 25.0 96.0 80-120 1,2-Dichloroethane 20.8 2.0 ug/l 25.0 83.2 80-120 1,1-Dichloroethene 23.4 5.0 ug/l 25.0 93.6 80-120 cis-1,2-Dichloroethene 24.4 2.0 ug/l 25.0 97.6 80-120 trans-1,2-Dichloroethene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 102 80-120 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | 1,4-Dichlorobenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| 1,2-Dichloroethane 20.8 2.0 ug/l 25.0 83.2 80-120 1,1-Dichloroethene 23.4 5.0 ug/l 25.0 93.6 80-120 cis-1,2-Dichloroethene 24.4 2.0 ug/l 25.0 97.6 80-120 trans-1,2-Dichloroethene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 102 80-120 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | Dichlorodifluoromethane | 18.5 | 5.0 | ug/l | 25.0 | | 74.0 | 25-140 | | | |
| 1,1-Dichloroethene 23.4 5.0 ug/l 25.0 93.6 80-120 cis-1,2-Dichloroethene 24.4 2.0 ug/l 25.0 97.6 80-120 trans-1,2-Dichloroethene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 102 80-120 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| cis-1,2-Dichloroethene 24.4 2.0 ug/l 25.0 97.6 80-120 trans-1,2-Dichloroethene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 102 80-120 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | 1,2-Dichloroethane | 20.8 | 2.0 | ug/l | 25.0 | | 83.2 | 80-120 | | | |
| trans-1,2-Dichloroethene 24.2 2.0 ug/l 25.0 96.8 80-120 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 102 80-120 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | 1,1-Dichloroethene | 23.4 | 5.0 | ug/l | 25.0 | | 93.6 | 80-120 | | | |
| 1,2-Dichloropropane 21.2 2.0 ug/l 25.0 84.8 80-120 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 102 80-120 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | • | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 80-120 | | | |
| 1,3-Dichloropropane 25.4 2.0 ug/l 25.0 102 80-120 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 80-120 | | | |
| 2,2-Dichloropropane 23.6 2.0 ug/l 25.0 94.4 75-135 | | 21.2 | 2.0 | ug/l | 25.0 | | 84.8 | 80-120 | | | |
| 7 1 200 711 70 120 | _ _ | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 1.1 Diablementary 23.5 2.0 # 25.0 00.0 00.00 | * * | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 75-135 | | | |
| 1,1-Dicinoropropene 22.5 2.0 ug/1 25.0 90.0 80-120 | 1,1-Dichloropropene | 22.5 | 2.0 | ug/l | 25.0 | | 90.0 | 80-120 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

Report Number:

PKH0446

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0301 Extracted: 09/01/02 | <u>1</u> | | | | | | | | | |
| LCS Analyzed: 09/01/01 (P1I0301-BS1 |) | | | | | | | | | |
| cis-1,3-Dichloropropene | 20,3 | 2.0 | ug/l | 25.0 | | 81.2 | 80-120 | | | |
| trans-1,3-Dichloropropene | 22.0 | 2.0 | ug/l | 25.0 | | 88.0 | 80-120 | | | |
| Ethylbenzene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| Hexachlorobutadiene | 28.1 | 5.0 | ug/l | 25.0 | | 112 | 60-145 | | | |
| 2-Hexanone | 28.2 | 10 | ug/l | 25.0 | | 113 | 50-170 | | | |
| Iodomethane | 29.5 | 2.0 | ug/l | 25.0 | | 118 | 40-155 | | | |
| Isopropylbenzene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| p-Isopropyltoluene | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 80-120 | | | |
| Methylene chloride | 23.2 | 5.0 | ug/l | 25.0 | | 92.8 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 25.7 | 10 | ug/l | 25.0 | | 103 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.5 | 5.0 | ug/l | 25.0 | | 98.0 | 75-135 | | | |
| Naphthalene | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 70-130 | | | |
| n-Propylbenzene | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 80-120 | | | |
| Styrene | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 70-130 | | | |
| Tetrachloroethene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-125 | | | |
| Toluene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| 1,1,1-Trichloroethane | 21.9 | 2.0 | ug/l | 25.0 | | 87.6 | 80-120 | | | |
| 1,1,2-Trichloroethane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Trichloroethene | 22.5 | 2.0 | ug/l | 25.0 | | 90.0 | 80-120 | | | |
| Trichlorofluoromethane | 21.5 | 5.0 | ug/l | 25.0 | | 86.0 | 75-150 | | | |
| 1,2,3-Trichloropropane | 26.4 | 10 | ug/l | 25.0 | | 106 | 65-135 | | | |
| 1,2,4-Trimethylbenzene | 22.6 | 2.0 | ug/l | 25.0 | | 90.4 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 22.5 | 2.0 | ug/l | 25.0 | | 90.0 | 80-120 | | | |
| Vinyl acetate | 34.2 | 25 | ug/l | 25.0 | | 137 | 40-120 | | | V1,L3 |
| Vinyl chloride | 21.4 | 5.0 | ug/l | 25.0 | | 85.6 | 80-120 | | | |
| Xylenes, Total | 73.9 | 10 | ug/l | 75.0 | | 98.5 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 27.1 | | ug/l | 25.0 | | 108 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.7 | | ug/l | 25.0 | | 111 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.5 | | ug/l | 25.0 | | 106 | 80-120 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Report Number:

PKH0446

Sampled: 08/22/01-08/24/01

Received: 08/24/01

METHOD BLANK OF DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|----------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0301 Extracted: 09/01/0 | <u>1</u> | | | | | | - | | | |
| LCS Dup Analyzed: 09/01/01 (P1I030) | l-BSD1) | | | | | | | | | |
| Acetone | 30.7 | 20 | ug/l | 25.0 | | 123 | 30-200 | 0.326 | 20 | |
| Benzene | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 80-120 | 4.14 | 20 | |
| Bromobenzene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 80-120 | 4.12 | 20 | |
| Bromochloromethane | 26.5 | 5.0 | ug/l | 25.0 | | 106 | 80-120 | 5.03 | 20 | |
| Bromodichloromethane | 21.9 | 2.0 | ug/l | 25.0 | | 87.6 | 80-130 | 4.20 | 20 | |
| Bromoform | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 60-140 | 6.27 | 20 | |
| Bromomethane | 26.4 | 5.0 | ug/l | 25.0 | | 106 | 60-150 | 10.4 | 20 | |
| 2-Butanone (MEK) | 29.1 | 10 | ug/l | 25.0 | | 116 | 30-185 | 9.35 | 20 | |
| n-Butylbenzene | 23.5 | 5.0 | ug/l | 25.0 | | 94.0 | 75-130 | 3.02 | 20 | |
| sec-Butylbenzene | 24.4 | 5.0 | ug/l | 25.0 | | 97.6 | 80-125 | 2.07 | 20 | |
| tert-Butylbenzene | 24.5 | 5.0 | ug/l | 25.0 | | 98.0 | 80-120 | 1.65 | 20 | |
| Carbon Disulfide | 22.1 | 5.0 | ug/l | 25.0 | | 88.4 | 65-120 | 4.16 | 20 | |
| Carbon tetrachloride | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 75-150 | 5.41 | 20 | |
| Chlorobenzene | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 4.63 | 20 | |
| Chloroethane | 26.6 | 5.0 | ug/l | 25.0 | | 106 | 80-125 | 3.05 | 20 | |
| Chloroform | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | 5.88 | 20 | |
| Chloromethane | 20.4 | 5.0 | ug/l | 25.0 | | 81.6 | 60-125 | 4.00 | 20 | |
| 2-Chlorotoluene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 80-120 | 2.45 | 20 | |
| 4-Chlorotoluene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 80-120 | 2.85 | 20 | |
| Dibromochloromethane | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 70-150 | 4.00 | 20 | |
| 1,2-Dibromo-3-chloropropane | 23.7 | 5.0 | ug/l | 25.0 | | 94.8 | 50-145 | 6.09 | 20 | |
| 1,2-Dibromoethane (EDB) | 28.7 | 2.0 | ug/l | 25.0 | | 115 | 75-120 | 6.85 | 20 | |
| Dibromomethane | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 80-120 | 4.37 | 20 | |
| 1,2-Dichlorobenzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 5.74 | 20 | |
| 1,3-Dichlorobenzene | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 80-120 | 2.51 | 20 | |
| 1,4-Dichlorobenzene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 80-120 | 3.68 | 20 | |
| Dichlorodifluoromethane | 19.2 | 5.0 | ug/l | 25.0 | | 76.8 | 25-140 | 3.71 | 20 | |
| 1,1-Dichloroethane | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 5.27 | 20 | |
| 1,2-Dichloroethane | 21.3 | 2.0 | ug/l | 25.0 | | 85.2 | 80-120 | 2.38 | 20 | |
| 1,1-Dichloroethene | 24.2 | 5.0 | ug/l | 25.0 | | 96.8 | 80-120 | 3.36 | 20 | |
| cis-1,2-Dichloroethene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 4.02 | 20 | |
| trans-1,2-Dichloroethene | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 5.62 | 20 | |
| 1,2-Dichloropropane | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 80-120 | 4.61 | 20 | |
| 1,3-Dichloropropane | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 4.62 | 20 | |
| 2,2-Dichloropropane | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 75-135 | 2.92 | 20 | |
| 1,1-Dichloropropene | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 80-120 | 5.62 | 20 | |
| | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Report Number:

PKH0446

Received: 08/24/01

METHOD BLANK OC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------|---------------|-----------|-------|-------|--------|------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0301 Extracted: 0 | 9/01/01 | | | | | | | | | |
| LCS Dup Analyzed: 09/01/01 (F | P110301-BSD1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 21.0 | 2.0 | ug/l | 25.0 | | 84.0 | 80-120 | 3.39 | 20 | |
| trans-1,3-Dichloropropene | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 80-120 | 5.74 | 20 | |
| Ethylbenzene | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 4.39 | 20 | |
| Hexachlorobutadiene | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 60-145 | 15.3 | 20 | |
| 2-Hexanone | 30.8 | 10 | ug/l | 25.0 | | 123 | 50-170 | 8.81 | 20 | |
| Iodomethane | 30.8 | 2.0 | ug/l | 25.0 | | 123 | 40-155 | 4.31 | 20 | |
| Isopropylbenzene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 3.21 | 20 | |
| p-Isopropyltoluene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | 3.01 | 20 | |
| Methylene chloride | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 80-120 | 6.67 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 26.9 | 10 | ug/l | 25.0 | | 108 | 70-140 | 4.56 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 75-135 | 7.09 | 20 | |
| Naphthalene | 26.0 | 5.0 | ug/l | 25.0 | | 104 | 70-130 | 1.90 | 20 | |
| n-Propylbenzene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | 4.20 | 20 | |
| Styrene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 5.32 | 20 | |
| 1,1,1,2-Tetrachloroethane | 26.4 | 5.0 | ug/l | 25.0 | | 106 | 65-150 | 4.26 | 20 | |
| 1,1,2,2-Tetrachloroethane | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 70-130 | 5.45 | 20 | |
| Tetrachloroethene | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 80-125 | 5.11 | 20 | |
| Toluene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 4.43 | 20 | |
| 1,2,3-Trichlorobenzene | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 75-125 | 2.86 | 20 | |
| 1,2,4-Trichlorobenzene | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 80-120 | 0.00 | 20 | |
| 1,1,1-Trichloroethane | 22.8 | 2.0 | ug/l | 25.0 | | 91.2 | 80-120 | 4.03 | 20 | |
| 1,1,2-Trichloroethane | 26.7 | 2.0 | ug/l | 25.0 | | 107 | 80-120 | 4.99 | 20 | |
| Trichloroethene | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 80-120 | 3.06 | 20 | |
| Trichlorofluoromethane | 22.9 | 5.0 | ug/l | 25.0 | | 91.6 | 75-150 | 6.31 | 20 | |
| 1,2,3-Trichloropropane | 27.8 | 10 | ug/l | 25.0 | | 111 | 65-135 | 5.17 | 20 | |
| 1,2,4-Trimethylbenzene | 23.9 | 2.0 | ug/l | 25.0 | | 95.6 | 80-120 | 5.59 | 20 | |
| 1,3,5-Trimethylbenzene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | 4.77 | 20 | |
| Vinyl acetate | 36.0 | 25 | ug/l | 25.0 | | 144 | 40-120 | 5.13 | 20 | L3 |
| Vinyl chloride | 22.7 | 5.0 | ug/l | 25.0 | | 90.8 | 80-120 | 5.90 | 20 | |
| Xylenes, Total | 76.7 | 10 | ug/l | 75.0 | | 102 | 80-120 | 3.72 | 20 | |
| Surrogate: Dibromofluoromethane | 27.4 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.8 | | ug/l | 25.0 | | 111 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.4 | | ug/l | 25.0 | | 106 | 80-120 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

Report Number:

METHORBLANK OF DATA

PKH0446

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|--------------|-----------|-------|-------|-----------|---------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0301 Extracted: 09/0 | <u>1/01</u> | | | | | | 4 | | | |
| Matrix Spike Analyzed: 09/01/01 (I | P110301-MS1) | | | | Source: P | KH0446. | .01 | | | |
| Acetone | 31.9 | 20 | ug/l | 25.0 | ND | 128 | 5-200 | | | |
| Benzene | 21.0 | 2.0 | ug/l | 25.0 | ND | 84.0 | 80-120 | | | |
| Bromobenzene | 23.6 | 5.0 | ug/l | 25.0 | ND | 94.4 | 80-120 | | | |
| Bromochloromethane | 23.2 | 5.0 | ug/l | 25.0 | ND | 92.8 | 60-135 | | | |
| Bromodichloromethane | 20.3 | 2.0 | ug/l | 25.0 | ND | 81.2 | 80-120 | | | |
| Bromoform | 23.7 | 5.0 | ug/l | 25.0 | ND | 94.8 | 40-140 | | | |
| Bromomethane | 24.1 | 5.0 | ug/l | 25.0 | ND | 96.4 | 25-165 | | | |
| 2-Butanone (MEK) | 27.3 | 10 | ug/l | 25.0 | ND | 109 | 10-160 | | | |
| n-Butylbenzene | 22.7 | 5.0 | ug/l | 25.0 | ND | 90.8 | 75-135 | | | |
| sec-Butylbenzene | 23.9 | 5.0 | ug/l | 25.0 | ND | 95.6 | 80-135 | | | |
| tert-Butylbenzene | 24.2 | 5.0 | ug/l | 25.0 | ND | 96.8 | 80-125 | | | |
| Carbon Disulfide | 23.0 | 5.0 | ug/l | 25.0 | ND | 92.0 | 20-120 | | | |
| Carbon tetrachloride | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 80-145 | | | |
| Chlorobenzene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | | | |
| Chloroethane | 27.0 | 5.0 | ug/l | 25.0 | ND | 108 | 30-150 | | | |
| Chloroform | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 80-125 | | | |
| Chloromethane | 20.2 | 5.0 | ug/l | 25.0 | ND | 80.8 | 15-140 | | | |
| 2-Chlorotoluene | 24.1 | 5.0 | ug/l | 25.0 | ND | 96.4 | 80-124 | | | |
| 4-Chlorotoluene | 24.2 | 5.0 | ug/l | 25.0 | ND | 96.8 | 80-125 | | | |
| Dibromochloromethane | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2· | 75-135 | | | |
| 1,2-Dibromo-3-chloropropane | 19.9 | 5.0 | ug/l | 25.0 | ND | 79.6 | 25-185 | | | |
| 1,2-Dibromoethane (EDB) | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 45-145 | | | |
| Dibromomethane | 21.5 | 2.0 | ug/l | 25.0 | ND | 86.0 | 55-140 | | | |
| 1,2-Dichlorobenzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 80-120 | | | |
| 1,3-Dichlorobenzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 80-120 | | | |
| 1,4-Dichlorobenzene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 80-120 | | | |
| Dichlorodifluoromethane | 19.2 | 5.0 | ug/l | 25.0 | ND | 76.8 | 25-145 | | | |
| 1,1-Dichloroethane | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 75-120 | | | |
| 1,2-Dichloroethane | 20.9 | 2.0 | ug/l | 25.0 | ND | 83.6 | 60-135 | | | |
| 1,1-Dichloroethene | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 55-120 | | | |
| cis-1,2-Dichloroethene | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 75-120 | | | |
| trans-1,2-Dichloroethene | 26.8 | 2.0 | ug/l | 25.0 | ND | 107 | 65-120 | | | |
| 1,2-Dichloropropane | 20.6 | 2.0 | ug/l | 25.0 | ND | 82.4 | 80-125 | | | |
| 1,3-Dichloropropane | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 55-140 | | | |
| 2,2-Dichloropropane | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 45-165 | | | |
| 1,1-Dichloropropene | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 80-120 | | | |
| | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Report Number:

PKH0446

Received: 08/24/01

NEUHOUBIANKOEDU E

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|--------------|-----------|-------|-------|-----------|---------|-------------------------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0301 Extracted: 09/0 | 01/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/01/01 (| P110301-MS1) | | | | Source: F | КН0446- | 01 | | | |
| cis-1,3-Dichloropropene | 19.6 | 2.0 | ug/l | 25.0 | ND | 78.4 | 80-120 | | | M2 |
| trans-1,3-Dichloropropene | 21.0 | 2.0 | ug/l | 25.0 | ND | 84.0 | 70-120 | | | |
| Ethylbenzene | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 80-120 | | | |
| Hexachlorobutadiene | 19.4 | 5.0 | ug/l | 25.0 | ND | 77.6 | 80-135 | | | M2 |
| 2-Hexanone | 26.4 | 10 | ug/l | 25.0 | ND | 106 | 25-185 | | | |
| Iodomethane | 31.9 | 2.0 | ug/l | 25.0 | ND | 128 | 30-155 | | | |
| Isopropylbenzene | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 80-125 | | | |
| p-Isopropyltoluene | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 80-125 | | | |
| Methylene chloride | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 55-125 | | | |
| 4-Methyl-2-pentanone (MIBK) | 23.4 | 10 | ug/l | 25.0 | ND | 93.6 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 55-135 | | | |
| Naphthalene | 19.3 | 5.0 | ug/l | 25.0 | ND | 77.2 | 15-160 | | | |
| n-Propylbenzene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 80-130 | | | |
| Styrene | 24.1 | 2.0 | ug/l | 25.0 | ND | 96.4 | 60-135 | | | |
| 1,1,1,2-Tetrachloroethane | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 80-135 | | | |
| 1,1,2,2-Tetrachloroethane | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 35-150 | | | |
| Tetrachloroethene | 25.1 | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| Toluene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 17.9 | 5.0 | ug/l | 25.0 | ND | 71.6 | 45-145 | | | |
| 1,2,4-Trichlorobenzene | 21.9 | 5.0 | ug/l | 25.0 | ND | 87.6 | 65-130 | | | |
| 1,1,1-Trichloroethane | 22.3 | 2.0 | ug/l | 25.0 | ND | 89.2 | 80-120 | | | |
| 1,1,2-Trichloroethane | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 55-145 | | | |
| Trichloroethene | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 80-120 | | | |
| Trichlorofluoromethane | 22.9 | 5.0 | ug/l | 25.0 | ND | 91.6 | 7 0-1 4 5 | | | |
| 1,2,3-Trichloropropane | 24.6 | 10 | ug/l | 25.0 | ND | 98.4 | 20-160 | | | |
| 1,2,4-Trimethylbenzene | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 70-135 | | | |
| 1,3,5-Trimethylbenzene | 22.7 | 2.0 | ug/l | 25.0 | ND | 90.8 | 80-125 | | | |
| Vinyl acetate | 34.1 | 25 | ug/l | 25.0 | ND | 136 | 25-130 | | | N2 |
| Vinyl chloride | 22.6 | 5.0 | ug/l | 25.0 | ND | 90.4 | 25-135 | | | |
| Xylenes, Total | 75.1 | 10 | ug/l | 75.0 | ND | 100 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 27.2 | | ug/l | 25.0 | | 109 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.8 | | ug/l | 25.0 | | 111 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.7 | | ug/l | 25.0 | | 107 | 80-120 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Report Number: PKH0446 Sampled: 08/22/01-08/24/01

Received: 08/24/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0301 Extracted: 09/01/ | <u>01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/01/01 | (P1I0301-M | SD1) | | | Source: P | KH0446- | 01 | | | |
| Acetone | 34.0 | 20 | ug/l | 25.0 | ND | 136 | 5-200 | 6.37 | 20 | |
| Benzene | 21.4 | 2.0 | ug/l | 25.0 | ND | 85.6 | 80-120 | 1.89 | 20 | |
| Bromobenzene | 23.8 | 5.0 | ug/l | 25.0 | ND | 95.2 | 80-120 | 0.844 | 20 | |
| Bromochloromethane | 23.6 | 5.0 | ug/l | 25.0 | ND | 94.4 | 60-135 | 1.71 | 20 | |
| Bromodichloromethane | 20.8 | 2.0 | ug/l | 25.0 | ND | 83.2 | 80-120 | 2.43 | 20 | |
| Bromoform | 24.2 | 5.0 | ug/l | 25.0 | ND | 96.8 | 40-140 | 2.09 | 20 | |
| Bromomethane | 22.4 | 5.0 | ug/l | 25.0 | ND | 89.6 | 25-165 | 7.31 | 20 | |
| 2-Butanone (MEK) | 28.6 | 10 | ug/l | 25.0 | ND | 114 | 10-160 | 4.65 | 20 | |
| n-Butylbenzene | 21.3 | 5.0 | ug/l | 25.0 | ND | 85.2 | 75-135 | 6.36 | 20 | |
| sec-Butylbenzene | 23.1 | 5.0 | ug/l | 25.0 | ND | 92.4 | 80-135 | 3.40 | 20 | |
| tert-Butylbenzene | 24.0 | 5.0 | ug/l | 25.0 | ND | 96.0 | 80-125 | 0.830 | 20 | |
| Carbon Disulfide | 22.8 | 5.0 | ug/l | 25.0 | ND | 91.2 | 20-120 | 0.873 | 20 | |
| Carbon tetrachloride | 23.8 | 5.0 | ug/l | 25.0 | ND | 95.2 | 80-145 | 1.27 | 20 | |
| Chlorobenzene | 25.7 | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | 0.390 | 20 | |
| Chloroethane | 26.2 | 5.0 | ug/l | 25.0 | ND | 105 | 30-150 | 3.01 | 20 | |
| Chloroform | 22.0 | 2.0 | ug/l | 25.0 | ND | 88.0 | 80-125 | 0.913 | 20 | |
| Chloromethane | 20.2 | 5.0 | ug/l | 25.0 | ND | 80.8 | 15-140 | 0.00 | 20 | |
| 2-Chlorotoluene | 24.4 | 5.0 | ug/l | 25.0 | ND | 97.6 | 80-124 | 1.24 | 20 | |
| 4-Chlorotoluene | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 80-125 | 2.04 | 20 | |
| Dibromochloromethane | 24.1 | 2.0 | ug/l | 25.0 | ND | 96.4 | 75-135 | 1.25 | 20 | |
| 1,2-Dibromo-3-chloropropane | 25.6 | 5.0 | ug/l | 25.0 | ND | 102 | 25-185 | 25.1 | 20 | R4 |
| 1,2-Dibromoethane (EDB) | 26.2 | 2.0 | ug/l | 25.0 | ND | 105 | 45-145 | 1.54 | 20 | |
| Dibromomethane | 22.1 | 2.0 | ug/l | 25.0 | ND | 88.4 | 55-140 | 2.75 | 20 | |
| 1,2-Dichlorobenzene | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 80-120 | 1.72 | 20 | |
| 1,3-Dichlorobenzene | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 80-120 | 2.15 | 20 | |
| 1,4-Dichlorobenzene | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 80-120 | 1.26 | 20 | |
| Dichlorodifluoromethane | 19.2 | 5.0 | ug/l | 25.0 | ND | 76.8 | 25-145 | 0.00 | 20 | |
| 1,1-Dichloroethane | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 75-120 | 1.53 | 20 | |
| 1,2-Dichloroethane | 21.5 | 2.0 | ug/l | 25.0 | ND | 86.0 | 60-135 | 2.83 | 20 | |
| 1,1-Dichloroethene | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 55-120 | 0.00 | 20 | |
| cis-1,2-Dichloroethene | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 75-120 | 0.00 | 20 | |
| trans-1,2-Dichloroethene | 26.6 | 2.0 | ug/l | 25.0 | ND | 106 | 65-120 | 0.749 | 20 | |
| 1,2-Dichloropropane | 21.6 | 2.0 | ug/l | 25.0 | ND | 86.4 | 80-125 | 4.74 | 20 | |
| 1,3-Dichloropropane | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 55-140 | 0.00 | 20 | |
| 2,2-Dichloropropane | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 45-165 | 0.784 | 20 | |
| 1,1-Dichloropropene | 22.7 | 2.0 | ug/l | 25.0 | ND | 90.8 | 80-120 | 0.877 | 20 | |
| | | | | | | | | | | |

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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Report Number:

PKH0446

Received: 08/24/01

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0301 Extracted: 09/01/0 | <u>)1</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/01/01 | (P1I0301-M | SD1) | | | Source: F | PKH0446- | 01 | | | |
| cis-1,3-Dichloropropene | 19.9 | 2.0 | ug/I | 25.0 | ND | 79.6 | 80-120 | 1.52 | 20 | |
| trans-1,3-Dichloropropene | 21.4 | 2.0 | ug/l | 25.0 | ND | 85.6 | 70-120 | 1.89 | 20 | |
| Ethylbenzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | 1.60 | 20 | |
| Hexachlorobutadiene | 17.5 | 5.0 | ug/l | 25.0 | ND | 70.0 | 80-135 | 10.3 | 20 | M2 |
| 2-Hexanone | 27.6 | 10 | ug/l | 25.0 | ND | 110 | 25-185 | 4.44 | 20 | |
| Iodomethane | 32.2 | 2.0 | ug/l | 25.0 | ND | 129 | 30-155 | 0.936 | 20 | |
| Isopropylbenzene | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 80-125 | 1.61 | 20 | |
| p-lsopropyltoluene | 22.1 | 2.0 | ug/i | 25.0 | ND | 88.4 | 80-125 | 3.56 | 20 | |
| Methylene chloride | 25.5 | 5.0 | ug/l | 25.0 | ND | 102 | 55-125 | 0.393 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 24.6 | 10 | ug/l | 25.0 | ND | 98.4 | 10-175 | 5.00 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 25.8 | 5.0 | ug/l | 25.0 | ND | 103 | 55-135 | 1.56 | 20 | |
| Naphthalene | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 15-160 | 25.3 | 20 | R4 |
| n-Propylbenzene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 80-130 | 0.00 | 20 | |
| Styrene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 60-135 | 0.414 | 20 | |
| 1,1,1,2-Tetrachloroethane | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 80-135 | 1.99 | 20 | |
| 1,1,2,2-Tetrachloroethane | 24.7 | 2.0 | ug/l | 25.0 | ND | 98.8 | 35-150 | 4.98 | 20 | |
| Tetrachloroethene | 25.1 | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | 0.00 | 20 | |
| Toluene | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 80-120 | 0.402 | 20 | |
| 1,2,3-Trichlorobenzene | 20.4 | 5.0 | ug/i | 25.0 | ND | 81.6 | 45-145 | 13.1 | 20 | |
| 1,2,4-Trichlorobenzene | 22.6 | 5.0 | ug/l | 25.0 | ND | 90.4 | 65-130 | 3.15 | 20 | |
| 1,1,1-Trichloroethane | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 80-120 | 2.27 | 20 | |
| 1,1,2-Trichloroethane | 25.1 | 2.0 | ug/l | 25.0 | ND | 100 | 55-145 | 0.399 | 20 | |
| Trichloroethene | 22.4 | 2.0 | ug/l | 25.0 | ND | 89.6 | 80-120 | 0.897 | 20 | |
| Trichlorofluoromethane | 22.8 | 5.0 | ug/l | 25.0 | ND | 91.2 | 70-145 | 0.438 | 20 | |
| 1,2,3-Trichloropropane | 26.0 | 10 | ug/l | 25.0 | ND | 104 | 20-160 | 5.53 | 20 | |
| 1,2,4-Trimethylbenzene | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 70-135 | 2.19 | 20 | |
| 1,3,5-Trimethylbenzene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 80-125 | 1.31 | 20 | |
| Vinyl acetate | 34.4 | 25 | ug/l | 25.0 | ND | 138 | 25-130 | 0.876 | 20 | N2 |
| Vinyl chloride | 22.6 | 5.0 | ug/l | 25.0 | ND | 90.4 | 25-135 | 0.00 | 20 | |
| Xylenes, Total | 74.8 | 10 | ug/l | 75.0 | ND | 99.7 | 80-120 | 0.400 | 20 | |
| Surrogate: Dibromofluoromethane | <i>26</i> .8 | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.5 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 27.0 | | ug/l | 25.0 | | 108 | 80-120 | | | |
| | | | | | | | | | | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

Report Number:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

PKH0446

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|-----------|-----------|-------|--------------------|-----------|------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2923 Extracted: 08/29/0 | 01 | | | | | | | | | • |
| Blank Analyzed: 08/30/01 (P1H2923-B | LK1) | | | | | | | | | |
| Mercury | ND | 0.020 | mg/kg | | | | | | | |
| LCS Analyzed: 08/30/01 (P1H2923-BS | 1) | | 0-0 | | | | | | | |
| Mercury | 0.379 | 0.020 | mg/kg | 0.417 | | 90.9 | 85-115 | | | M2 |
| Matrix Spike Analyzed: 08/30/01 (P1H | 2923-MS1) | | 0 0 | | Source: P | | | | | 1412 |
| Mercury | 4.45 | 0.20 | mg/kg | 0.417 | 3.1 | 324 | 85-115 | | | M2 |
| Matrix Spike Dup Analyzed: 08/30/01 | P1H2923-M | (SD1) | | Source: PKH0435-02 | | | | | | IVIZ |
| Mercury | 4.33 | 0.20 | mg/kg | 0.417 | 3.1 | 295 | 85-115 | 2.73 | 20 | M2 |
| Batch: P110616 Extracted: 09/06/01 | ! | | | | | | | | 20 | WL |
| Blank Analyzed: 09/06/01 (P1I0616-BL | | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Barium | ND | 1.0 | mg/kg | | | | | | | |
| Cadmium | ND | 0.50 | mg/kg | | | | | | | |
| Chromium | ND | 1.0 | mg/kg | | | | | | | |
| Lead | ND | 5.0 | mg/kg | | | | | | | |
| Selenium | ND | 5.0 | mg/kg | | | | | | | |
| Silver | ND | 0.50 | mg/kg | | | | | | | |
| LCS Analyzed: 09/06/01 (P1I0616-BS1) |) | | | | | | | | | |
| Arsenic | 92.0 | 5.0 | mg/kg | 100 | | 92.0 | 80-120 | | | |
| Barium | 92.5 | 1.0 | mg/kg | 100 | | 92.5 | 80-120 | | | |
| Cadmium | 91.8 | 0.50 | mg/kg | 100 | | 91.8 | 80-120 | | | |
| Chromium | 92.4 | 1.0 | mg/kg | 100 | | 92.4 | 80-120 | | | |
| Lead | 93.1 | 5.0 | mg/kg | 100 | | 93.1 | 80-120 | | | |
| Selenium | 88.9 | 5.0 | mg/kg | 100 | | 88.9 | 80-120 | | | |
| Silver | 93.4 | 0.50 | mg/kg | 100 | | 93.4 | 80-120 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

Report Number:

PKH0446

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---|------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P110616 Extracted: 09/06/02 | <u>1</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/06/01 (P1I0616 | -BSD1) | | | | | | | | | |
| Arsenic | 90.7 | 5.0 | mg/kg | 100 | | 90.7 | 80-120 | 1.42 | 20 | |
| Barium | 90.1 | 1.0 | mg/kg | 100 | | 90.1 | 80-120 | 2.63 | 20 | |
| Cadmium | 89.6 | 0.50 | mg/kg | 100 | | 89.6 | 80-120 | 2.43 | 20 | |
| Chromium | 90.4 | 1.0 | mg/kg | 100 | | 90.4 | 80-120 | 2.19 | 20 | |
| Lead | 90.2 | 5.0 | mg/kg | 100 | | 90.2 | 80-120 | 3.16 | 20 | |
| Selenium | 88.1 | 5.0 | mg/kg | 100 | | 88.1 | 80-120 | 0.904 | 20 | |
| Silver | 92.6 | 0.50 | mg/kg | 100 | | 92.6 | 80-120 | 0.860 | 20 | |
| Matrix Spike Analyzed: 09/06/01 (P1I0616-MS1) | | | | | Source: I | | | | | |
| Arsenic | 95.2 | 5.0 | mg/kg | 100 | ND | 90.8 | 75-125 | | | |
| Barium | 152 | 1.0 | mg/kg | 100 | 61 | 91.0 | 75-125 | | | |
| Cadmium | 89.3 | 0.50 | mg/kg | 100 | ND | 89.3 | 75-125 | | | |
| Chromium | 118 | 1.0 | mg/kg | 100 | 14 | 104 | 75-125 | | | |
| Lead | 95.4 | 5.0 | mg/kg | 100 | 5.5 | 89.9 | 75-125 | | | |
| Selenium | 94.3 | 5.0 | mg/kg | 100 | ND | 92.8 | 75-125 | | | |
| Silver | 92.5 | 0.50 | mg/kg | 100 | ND | 92.5 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/06/01 | (P1I0616-M | ISD1) | | | Source: 1 | PKH0486 | -02 | | | |
| Arsenic | 100 | 5.0 | mg/kg | 100 | ND | 95.6 | 75-125 | 4.92 | 20 | |
| Barium | 162 | 1.0 | mg/kg | 100 | 61 | 101 | 75-125 | 6.37 | 20 | |
| Cadmium | 92.0 | 0.50 | mg/kg | 100 | ND | 92.0 | 75-125 | 2.98 | 20 | |
| Chromium | 110 | 1.0 | mg/kg | 100 | 14 | 96.0 | 75-125 | 7.02 | 20 | |
| Lead | 98.5 | 5.0 | mg/kg | 100 | 5.5 | 93.0 | 75-125 | 3.20 | 20 | |
| Selenium | 96.9 | 5.0 | mg/kg | 100 | ND | 95.4 | 75-125 | 2.72 | 20 | |
| Silver | 96.0 | 0.50 | mg/kg | 100 | ND | 96.0 | 75-125 | 3.71 | 20 | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150-2-2.10

Report Number:

PKH0446

Sampled: 08/22/01-08/24/01

Received: 08/24/01

METHOD BLANK OF DATA

TOTAL RECOVERABLE METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|------------|-----------|-------|-------|-----------|-------------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2827 Extracted: 08/28/ | /01 | | | | | | | | | • |
| Blank Analyzed: 08/29/01 (P1H2827-1 | | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| LCS Analyzed: 08/29/01 (P1H2827-BS | S1) | | | | | | | | | |
| Arsenic | 0.961 | 0.050 | mg/l | 1.00 | | 96.1 | 85-115 | | | |
| Chromium | 0.970 | 0.010 | mg/l | 1.00 | | 97.0 | 85-115 | | | |
| Copper | 0.993 | 0.020 | mg/l | 1.00 | | 99.3 | 85-115 | | | |
| Nickel | 0.960 | 0.050 | mg/l | 1.00 | | 96.0 | 85-115 | | | |
| Zinc | 0.969 | 0.050 | mg/l | 1.00 | | 96.9 | 85-115 | | | |
| LCS Dup Analyzed: 08/30/01 (P1H282 | 27-BSD1) | | • | | | | | | | |
| Arsenic | 1.05 | 0.050 | mg/l | 1.00 | | 105 | 85-115 | 8.85 | 20 | |
| Chromium | 1.03 | 0.010 | mg/l | 1.00 | | 103 | 85-115 | 6.00 | 20 | |
| Copper | 1.10 | 0.020 | mg/l | 1.00 | | 110 | 85-115 | 10.2 | 20 | |
| Nickel | 1.02 | 0.050 | mg/l | 1.00 | | 102 | 85-115 | 6.06 | 20 | |
| Zinc | 1.04 | 0.050 | mg/l | 1.00 | | 104 | 85-115 | 7.07 | 20 | |
| Matrix Spike Analyzed: 08/29/01 (P1F | 12827-MS1) | | | | Source: P | KH0446- | | 7.07 | 20 | |
| Arsenic | 0.988 | 0.050 | mg/l | 1.00 | ND | 98.8 | 70-130 | | | |
| Chromium | 0.971 | 0.010 | mg/l | 1.00 | ND | 97.1 | 70-130 | | | |
| Copper | 1.00 | 0.020 | mg/l | 1.00 | ND | 100 | 70-130 | | | |
| Nickel | 0.960 | 0.050 | mg/l | 1.00 | ND | 96.0 | 70-130 | | | |
| Zinc | 0.974 | 0.050 | mg/l | 1.00 | ND | 96.0 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 08/29/01 | (P1H2827-M | ISD1) | Ü | | | KH0446- | | | | |
| Arsenic | 0.948 | 0.050 | mg/l | 1.00 | ND | 94.8 | 70-130 | 4.13 | 20 | |
| Chromium | 0.952 | 0.010 | mg/l | 1.00 | ND | 95.2 | 70-130 | 1.98 | 20 | |
| Copper | 0.986 | 0.020 | mg/l | 1.00 | ND | 98.6 | 70-130 | 1.41 | 20 | |
| Nickel | 0.942 | 0.050 | mg/l | 1.00 | ND | 94.2 | 70-130 | 1.89 | 20 | |
| Zinc | 0.952 | 0.050 | mg/l | 1.00 | ND | 93.8 | 70-130 | 2.28 | 20 | |
| | | | ~ | | | , . | .0 150 | 2.20 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

PKH0446

Received: 08/24/01

INORGANICS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0418 Extracted: 09/04/0 | 1 | | | | | | | | | |
| Blank Analyzed: 09/04/01 (P1I0418-B) | LK1) | | | | | | | | | |
| Total Cyanide | ND | 0.020 | mg/l | | | | | | | |
| LCS Analyzed: 09/04/01 (P110418-BS) | l) | | | | | | | | | |
| Total Cyanide | 0.0931 | 0.020 | mg/l | 0.100 | | 93.1 | 90-110 | | | |
| Matrix Spike Analyzed: 09/04/01 (P1I | 0418-MS1) | | | | Source: I | PKH0431- | -02 | | | |
| Total Cyanide | 0.156 | 0.020 | mg/l | 0.100 | ND | 156 | 70-130 | | | M1 |
| Matrix Spike Dup Analyzed: 09/04/01 | (P1I0418-M | SD1) | | | Source: I | PKH0431- | -02 | | | |
| Total Cyanide | 0.130 | 0.020 | mg/l | 0.100 | ND | 130 | 70-130 | 18.2 | 20 | |
| Batch: P110513 Extracted: 09/05/0 | 1 | | | | | | | | | |
| Blank Analyzed: 09/05/01 (P1I0513-B | LK1) | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 09/05/01 (P1I | 0513-MS1) | | | | Source: I | PKH0448- | -03 | | | |
| Total Cyanide | 2.61 | 0.50 | mg/kg | 2.50 | ND | 104 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/05/01 | (P110513-M | SD1) | | | Source: I | PKH0448- | -03 | | | |
| Total Cyanide | 2.24 | 0.50 | mg/kg | 2.50 | ND | 89.6 | 70-130 | 15.3 | 20 | |
| Reference Analyzed: 09/05/01 (P11051 | 3-SRM1) | | | | | | | | | |
| Total Cyanide | 116 | 20 | mg/kg | 201 | | 57.7 | 40-160 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Jim Clarke Attention:

Client Project ID:

Report Number:

70211-0-0150-2-2.10

Sampled: 08/22/01-08/24/01

Received: 08/24/01

BELLEODE ELVERANT DE L

PKH0446

DATA QUALIFIERS AND DEFINITIONS

- **B4** Target analyte detected in blank at/above method acceptance criteria.
- L3 The associated blank spike recovery was above method acceptance limits. See case narrative.
- **M1** Matrix spike recovery was high, the method control sample recovery was acceptable.
- **M2** Matrix spike recovery was low, the method control sample recovery was acceptable.
- **M3** The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
- N1See case narrative.
- N2 See corrective action report.
- 011 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.
- R4 MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.
- **R6** LFB/LFBD RPD exceeded the method control limit. Recovery met acceptance criteria.
- V1CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not reported.
- **RPD** Relative Percent Difference

▶ Del Mar Analytical

CHAIN OF CUSTODY FORM

Tumaround Time: (Check) Sample Integrity: same day 24 hours Analysis Required 3/ Date /Time: Date /Time: 702 11-0-8150-2-2.10



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

[none]

Sampled: 08/25/01

Received: 08/25/01 Issued: 10/2/01

Jim Clarke Attention:

Report Number:

PKH0448

| LABORATORY | SAMPLE | SAMPLE |
|---------------|-------------|--------|
| NUMBER | DESCRIPTION | MATRIX |
| PKH0448-01 | LB2-S-10 | Soil |
| PKH0448-02 | LB2-S-20 | Soil |
| PKH0448-03 | LB2-S-30 | Soil |
| PKH0448-03RE8 | LB2-S-30 | Soil |
| PKH0448-04 | LB2-S-30 | Soil |
| PKH0448-05 | LB2-S-40 | Soil |
| PKH0448-06 | LB2-S-50 | Soil |
| PKH0448-06RE8 | LB2-S-50 | Soil |
| PKH0448-07 | LB2-S-50 | Soil |
| PKH0448-08 | Rinsate-3 | Water |

SAMPLE RECEIPT:

Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES:

Holding times were met.

PRESERVATION:

Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS:

The N1 flag on ICP Metals indicates that the analyte was detected in the associated Method Blank. Analyte concentration in

the sample is greater than 10X the concentration found in the Method Blank.

SUBCONTRACTED:

No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA:

The N2 flag on 8260 indicates that the Matrix Spike recovery was outside the method control limits. See Corrective Action

Report.

EXPLANATION OF DATA

QUALIFIERS:

The L3 flag on Cyanide and 8260 indicates that the Laboratory Control Sample recovery was above the method control

limits. Analyte not detected, data not impacted.

LYTICAL , PHOENIX (AZ0426)

Melissa Evans Project Manager

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CORRECTIVE ACTION REPORT

Department: GC/MS

Method:

8260B

Date:

09/03/2001

Matrix:

Water

Batch:

P1I0102

Samples:

PKH0432-01, PKH0433-01 – PKH0433-07, PKH0439-03, PKH0443-01

& PKH0448-01

Identification and Definition of Problem:

The Laboratory Control Sample (LCS) and Matrix Spike (MS) recovered high and outside of acceptance limits for Vinyl acetate.

Determination of the Cause of the Problem:

A definitive cause for the high recoveries could not be determined.

Corrective Action:

The Matrix Spike Duplicate was within acceptance limits for Vinyl acetate. All samples associated with this batch are non-detect and therefore are not impacted by the high recoveries. The associated samples as well as the LCS have been flagged "L3" to indicate the high recovery. The MS and the source samples have also been flagged "N2".

Elizabeth C. Wueschner: Date: 10/5/2001

Quality Assurance Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

[none]

PKH0448

Sampled: 08/25/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0448-04 (LB2 | 2-S-30 - Soil) | | | | | | | |
| Acetone | EPA 8260B | P1H2501 | 890 | ND | 1 | 8/25/01 | 9/6/01 | |
| Benzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromobenzene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromochloromethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromodichloromethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromoform | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromomethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1H2501 | 450 | ND | 1 | 8/25/01 | 9/6/01 | |
| n-Butylbenzene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| sec-Butylbenzene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| tert-Butylbenzene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Carbon Disulfide | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Carbon tetrachloride | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chlorobenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chloroethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chloroform | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chloromethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2-Chlorotoluene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 4-Chlorotoluene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Dibromochloromethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Dibromomethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Ethylbenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Hexachlorobutadiene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2-Hexanone | EPA 8260B | P1H2501 | 450 | ND | 1 | 8/25/01 | 9/6/01 | |
| Iodomethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | • |
| Isopropylbenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| p-Isopropyltoluene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| | | | | | | | | |

Melissa Evans Project Manager PKH0448 Page 2 of 37



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Law Engineering

4634 S. 36th Place

Client Project ID:

[none]

Sampled: 08/25/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number: PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0448-04 (LB2- | S-30 - Soil) | | | | | | | |
| Methylene chloride | EPA 8260B | P1H2501 | 450 | ND | 1 | 8/25/01 | 9/6/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1H2501 | 450 | ND | 1 | 8/25/01 | 9/6/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Naphthalene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| n-Propylbenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Styrene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Tetrachloroethene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Toluene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Trichloroethene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Trichlorofluoromethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1H2501 | 450 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | • |
| Vinyl acetate | EPA 8260B | P1H2501 | 1100 | ND | 1 | 8/25/01 | 9/6/01 | |
| Vinyl chloride | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Xylenes, Total | EPA 8260B | P1H2501 | 270 | ND | 1 | 8/25/01 | 9/6/01 | |
| Surrogate: Dibromofluoromethane (70-12 | 25%) | | | 81.9 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 86.6 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-13 | 30%) | | | 91.1 % | | | | |

The reporting limit for this sample was adjusted by a factor of 0.893 to account for the applicable preparation factor.



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID: [

[none]

Sampled: 08/25/01

Report Number: PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|---------------|---------|-----------------------------|--|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0448-07 (LB2 | -S-50 - Soil) | | -- | ~- ·- ·- ·- ·- ·- ·- ·- ·- · · · · · · · | | | | |
| Acetone | EPA 8260B | P1H2501 | 890 | ND | 1 | 8/25/01 | 9/6/01 | |
| Benzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromobenzene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromochloromethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromodichloromethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromoform | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Bromomethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1H2501 | 440 | ND | 1 | 8/25/01 | 9/6/01 | |
| n-Butylbenzene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| sec-Butylbenzene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| tert-Butylbenzene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Carbon Disulfide | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Carbon tetrachloride | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chlorobenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chloroethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chloroform | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Chloromethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2-Chlorotoluene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 4-Chlorotoluene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| Dibromochloromethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Dibromomethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1H2501 | | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Ethylbenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Hexachlorobutadiene | EPA 8260B | P1H2501 | 220 | ND | 1 | 8/25/01 | 9/6/01 | |
| 2-Hexanone | EPA 8260B | P1H2501 | 440 | ND | 1 | 8/25/01 | 9/6/01 | |
| Iodomethane | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| Isopropylbenzene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |
| p-Isopropyltoluene | EPA 8260B | P1H2501 | 89 | ND | 1 | 8/25/01 | 9/6/01 | |

Melissa Evans Project Manager PKH0448 Page 4 of 37



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention:

Jim Clarke

Client Project ID: [none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Qualifiers |
|------------|
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The reporting limit for this sample was adjusted by a factor of 0.89 to account for the applicable preparation factor.



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: [none]

Sampled: 08/25/01

Attention: Jim Clarke

Report Number: PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Sample ID: PKH0448-08 (Rinsates 3 - Water) Acetone | Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-------------------------------|--------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Acctone | Sample ID: PKH0448-08 (Rinsat | e-3 - Water) | | 8 | • | | | | |
| Bromochezene | - | | P1I0102 | 20 | ND | 1 | 9/3/01 | 9/4/01 | |
| Bromochloromethane | Benzene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Bromochloromethane | Bromobenzene | EPA 8260B | | | | 1 | | 9/4/01 | |
| Bromoform | Bromochloromethane | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Bromomethane | | | | | ND | . 1 | 9/3/01 | | |
| 2-Butanone (MEK) EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 sce-Butylbenzene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 sce-Butylbenzene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Carbon Disulfide EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Carbon Disulfide EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Chlorotherene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Chlorothane EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Chlorothane EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Chlorothane EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 2-Chiorothane EPA 8260B P110102 5.0 ND | Bromoform | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| n-Butylbenzene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 sec-Butylbenzene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 sec-Butylbenzene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 EVENTENDER EPA 8260B E | Bromomethane | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| n-Buylbenzene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 sec-Butylbenzene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Carbon Disulfide EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Carbon tertanchloride EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Chlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Chloroform EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Chloroform EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Chlorotoluene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 2-Chlorotoluene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 1/2-Directorotoluene EPA 8260B P110102 2.0 ND | 2-Butanone (MEK) | EPA 8260B | P1I0102 | 10 | ND | 1 | 9/3/01 | 9/4/01 | |
| sec-Butylbenzene EPA 8260B P10102 5.0 ND 1 9/3/01 9/4/01 Carbon Disulfide EPA 8260B P10102 5.0 ND 1 9/3/01 9/4/01 Carbon Disulfide EPA 8260B P10102 5.0 ND 1 9/3/01 9/4/01 Carbon Letrachloride EPA 8260B P100102 5.0 ND 1 9/3/01 9/4/01 Chlorochane EPA 8260B P100102 2.0 ND 1 9/3/01 9/4/01 Chlorochane EPA 8260B P100102 5.0 ND 1 9/3/01 9/4/01 Chlorochuene EPA 8260B P100102 5.0 ND 1 9/3/01 9/4/01 4-Chlorotoluene EPA 8260B P100102 5.0 ND 1 9/3/01 9/4/01 4-Chlorotoluene EPA 8260B P100102 5.0 ND 1 9/3/01 9/4/01 1,2-Dibromo-s-chloropropane EPA 8260B P100102 5.0 ND 1 9/3/01 9/4/01 1,2-Dibromo-s-chlane (EDB) EPA 8260B P1002 | | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Ert-Butylbenzene | | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Carbon tetrachloride EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Chlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Chlorotame EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Chlorotoluene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 2-Chlorotoluene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 4-Chlorotoluene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 4-Chlorotoluene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 1,2-Dichloromethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichlorobenzene EPA 8260B P110102 2.0 N | | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Chlorobenzene | Carbon Disulfide | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Chloroethane | Carbon tetrachloride | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Chloroform | Chlorobenzene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Chloromethane | Chloroethane | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 2-Chlorotoluene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 4-Chlorotoluene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Dibromochloromethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dibromo-3-chloropropane EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 1,2-Dibromoethane (EDB) EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Dibromoethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,4-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,4-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichlorodifluoromethane EPA 8260B P110102< | Chloroform | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 2-Chlorotoluene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 4-Chlorotoluene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 Dibromochloromethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dibromo-3-chloropropane EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 1,2-Dibromoethane (EDB) EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Dibromoethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,4-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,4-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichlorodifluoromethane EPA 8260B P110102< | Chloromethane | EPA 8260B | P1I0102 | | ND | 1 | 9/3/01 | 9/4/01 | |
| 4-Chlorotoluene EPA \$260B P110102 5.0 ND 1 9/3/01 9/4/01 Dibromochloromethane EPA \$260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dibromo-3-chloropropane EPA \$260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dibromoethane (EDB) EPA \$260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichlorobenzene EPA \$260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichlorobenzene EPA \$260B P110102 2.0 ND 1 9/3/01 9/4/01 1,4-Dichlorobenzene EPA \$260B P110102 2.0 ND 1 9/3/01 9/4/01 1,4-Dichloroethane EPA \$260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethane EPA \$260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloroethene EPA \$260B P110102 </td <td>2-Chlorotoluene</td> <td>EPA 8260B</td> <td>P1I0102</td> <td></td> <td>ND</td> <td>1</td> <td>9/3/01</td> <td>9/4/01</td> <td></td> | 2-Chlorotoluene | EPA 8260B | P1I0102 | | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,2-Dibromo-3-chloropropane EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 1,2-Dibromoethane (EDB) EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Dibromomethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,4-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,4-Dichloromethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 trans-1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/ | 4-Chlorotoluene | EPA 8260B | | | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,2-Dibromoethane (EDB) | Dibromochloromethane | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,2-Dibromoethane (EDB) | 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Dibromomethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,4-Dichlorodifluoromethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Dichlorodifluoromethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloroptopane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloroptopane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloroptopane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 2,2-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroptopene EPA 8260B P110102 2.0 ND 1 9/3/01 | | | P1I0102 | | | 1 | 9/3/01 | 9/4/01 | |
| 1,3-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,4-Dichlorobenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Dichlorodifluoromethane EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 cis-1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 trans-1,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P1101 | | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,4-Dichlorobenzene | 1,2-Dichlorobenzene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Dichlorodifluoromethane EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 cis-1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 trans-1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 2,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P11010 | 1,3-Dichlorobenzene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,1-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 cis-1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 trans-1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 2,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 cis-1,3-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Ethylb | 1,4-Dichlorobenzene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,2-Dichloroethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloroethene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 cis-1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 trans-1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 2,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 cis-1,3-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Behexachloro | Dichlorodifluoromethane | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,1-Dichloroethene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 cis-1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 trans-1,2-Dichloroethene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 2,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 cis-1,3-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Hexachlorobutadiene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone< | 1,1-Dichloroethane | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| cis-1,2-Dichloroethene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 trans-1,2-Dichloroethene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloropropane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 2,2-Dichloropropane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 cis-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 trans-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Hexachlorobutadiene EPA 8260B P1I0 | 1,2-Dichloroethane | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| trans-1,2-Dichloroethene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 1,2-Dichloropropane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 2,2-Dichloropropane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 cis-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 trans-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Hexachlorobutadiene EPA 8260B P1I0102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone EPA 8260B P1I0102 | 1,1-Dichloroethene | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,3-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 2,2-Dichloropropane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 cis-1,3-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 trans-1,3-Dichloropropene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Hexachlorobutadiene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone EPA 8260B P110102 10 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 | cis-1,2-Dichloroethene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,3-Dichloropropane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 2,2-Dichloropropane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 cis-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 trans-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Hexachlorobutadiene EPA 8260B P1I0102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone EPA 8260B P1I0102 10 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 | trans-1,2-Dichloroethene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 2,2-Dichloropropane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 1,1-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 cis-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 trans-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Hexachlorobutadiene EPA 8260B P1I0102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone EPA 8260B P1I0102 10 ND 1 9/3/01 9/4/01 Iodomethane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 | 1,2-Dichloropropane | EPA 8260B | P110102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,1-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 cis-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 trans-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Hexachlorobutadiene EPA 8260B P1I0102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone EPA 8260B P1I0102 10 ND 1 9/3/01 9/4/01 Iodomethane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 | 1,3-Dichloropropane | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,1-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 cis-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 trans-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Hexachlorobutadiene EPA 8260B P1I0102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone EPA 8260B P1I0102 10 ND 1 9/3/01 9/4/01 Iodomethane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 | 2,2-Dichloropropane | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| trans-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Hexachlorobutadiene EPA 8260B P1I0102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone EPA 8260B P1I0102 10 ND 1 9/3/01 9/4/01 Iodomethane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 | | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| trans-1,3-Dichloropropene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Ethylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Hexachlorobutadiene EPA 8260B P1I0102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone EPA 8260B P1I0102 10 ND 1 9/3/01 9/4/01 Iodomethane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 | cis-1,3-Dichloropropene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Hexachlorobutadiene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone EPA 8260B P110102 10 ND 1 9/3/01 9/4/01 Iodomethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 | | EPA 8260B | | 2.0 | ND | 1 | | 9/4/01 | |
| Hexachlorobutadiene EPA 8260B P110102 5.0 ND 1 9/3/01 9/4/01 2-Hexanone EPA 8260B P110102 10 ND 1 9/3/01 9/4/01 Iodomethane EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 | Ethylbenzene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 2-Hexanone EPA 8260B P1I0102 10 ND 1 9/3/01 9/4/01 Iodomethane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 | • | | | | | | | | |
| Iodomethane EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 Isopropylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 | | | | | | | | | |
| Isopropylbenzene EPA 8260B P1I0102 2.0 ND 1 9/3/01 9/4/01 | | | | | | 1 | | | |
| | | | | | | | | | |
| p-Isopropyltoluene EPA 8260B P110102 2.0 ND 1 9/3/01 9/4/01 | p-Isopropyltoluene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |

Melissa Evans Project Manager PKH0448 Page 6 of 37



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------------|---------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| | | | ug/l | ug/l | | | | |
| Sample ID: PKH0448-08 (Rinsat | te-3 - Water) | | | | | | | |
| Methylene chloride | EPA 8260B | P110102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I0102 | 10 | ND | 1 | 9/3/01 | 9/4/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P110102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Naphthalene | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| n-Propylbenzene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Styrene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Tetrachloroethene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Toluene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Trichloroethene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Trichlorofluoromethane | EPA 8260B | P110102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I0102 | 10 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I0102 | 2.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Vinyl acetate | EPA 8260B | P1I0102 | 25 | ND | 1 | 9/3/01 | 9/4/01 | V1,L3 |
| Vinyl chloride | EPA 8260B | P1I0102 | 5.0 | ND | 1 | 9/3/01 | 9/4/01 | |
| Xylenes, Total | EPA 8260B | P1I0102 | 10 | ND | 1 | 9/3/01 | 9/4/01 | |
| Surrogate: Dibromofluoromethane (80-120 | | | 107 % | | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | 112 % | | | | | |
| Surrogate: 4-Bromofluorobenzene (80-1209 | | | 119 % | | | | | |

DEL MAR ANALYTICAL, PHOENIX (AZ0426



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Report Number: PKH0448

Sampled: 08/25/01

Received: 08/25/01

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|----------------------------|------------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0448-01 (LB2 | -S-10 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I0517 | 5.0 | ND | 1 | 9/5/01 | 9/8/01 | |
| Chromium | EPA 6010B | P1I0517 | 1.0 | 30 | 1 | 9/5/01 | 9/8/01 | N1 |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1I0517 | 2.0 | 19 | 1 | 9/5/01 | 9/9/01 | |
| Nickel | EPA 6010B | P110517 | 5.0 | 19 | 1 | 9/5/01 | 9/8/01 | |
| Zinc | EPA 6010B | P1I0517 | 5.0 | 62 | 1 | 9/5/01 | 9/8/01 | N1 |
| Sample ID: PKH0448-02 (LB2 | -S-20 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I0517 | 5.0 | ND | 1 | 9/5/01 | 9/8/01 | |
| Chromium | EPA 6010B | P1I0517 | 1.0 | 18 | 1 | 9/5/01 | 9/8/01 | N1 |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | _ |
| Copper | EPA 6010B | P1I0517 | 2.0 | 15 | 1 | 9/5/01 | 9/9/01 | |
| Nickel | EPA 6010B | P1I0517 | 5.0 | 15 | 1 | 9/5/01 | 9/8/01 | |
| Zinc | EPA 6010B | P1I0517 | 5.0 | 45 | 1 | 9/5/01 | 9/8/01 | N1 |
| Sample ID: PKH0448-03 (LB2 | -S-30 - Soil) | | | | | | 21012 | |
| Arsenic | EPA 6010B | P1I0517 | 5.0 | ND | 1 | 9/5/01 | 9/8/01 | |
| Chromium | EPA 6010B | P1I0517 | 1.0 | 18 | 1 | 9/5/01 | 9/8/01 | NI |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P110517 | 2.0 | 11 | 1 | 9/5/01 | 9/9/01 | |
| Nickel | EPA 6010B | P110517 | 5.0 | 12 | 1 | 9/5/01 | 9/8/01 | |
| Sample ID: PKH0448-03RE8 (| LB2-S-30 - Soil) | | | _ | - | | 5. 51 | |
| Zinc | EPA 6010B | P1J0103 | 5.0 | 36 | 1 | 10/1/01 | 10/2/01 | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

TOTAL METALS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|-----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0448-05 (LB2-S- | -40 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I0517 | 5.0 | ND | 1 | 9/5/01 | 9/8/01 | |
| Chromium | EPA 6010B | P1I0517 | 1.0 | 18 | 1 | 9/5/01 | 9/8/01 | N1 |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1I0517 | 2.0 | 19 | 1 | 9/5/01 | 9/9/01 | |
| Nickel | EPA 6010B | P1I0517 | 5.0 | 17 | 1 . | 9/5/01 | 9/8/01 | |
| Zinc | EPA 6010B | P1I0517 | 5.0 | 48 | 1 | 9/5/01 | 9/8/01 | N1 |
| Sample ID: PKH0448-06 (LB2-S- | -50 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I0517 | 5.0 | ND | 1 | 9/5/01 | 9/8/01 | |
| Chromium | EPA 6010B | P1I0517 | 1.0 | 21 | 1 | 9/5/01 | 9/8/01 | N1 |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1I0517 | 2.0 | 10 | 1 | 9/5/01 | 9/9/01 | |
| Nickel | EPA 6010B | P1I0517 | 5.0 | 11 | 1 | 9/5/01 | 9/8/01 | |
| Sample ID: PKH0448-06RE8 (L1 | 32-S-50 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1J0103 | 5.0 | 28 | 1 | 10/1/01 | 10/2/01 | |

DEL MAR ANALYTICAL, PHOENIX (AZ0426



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|---------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0448-08 (Rinsat | te-3 - Water) | | | | | | | |
| Arsenic | EPA 200.7 | P1H2827 | 0.050 | ND | 1 | 8/28/01 | 8/29/01 | |
| Chromium | EPA 200.7 | P1H2827 | 0.010 | ND | 1 | 8/28/01 | 8/29/01 | |
| Chromium VI | SM3500CR-D | P1H2706 | 0.025 | ND | 1 | 8/25/01 | 8/25/01 | |
| Copper | EPA 200.7 | P1H2827 | 0.020 | ND | 1 | 8/28/01 | 8/29/01 | |
| Nickel | EPA 200.7 | P1H2827 | 0.050 | ND | 1 | 8/28/01 | 8/29/01 | |
| Zinc | EPA 200.7 | P1H2827 | 0.050 | ND | 1 | 8/28/01 | 8/29/01 | |

DEL MAR ANALYTICAL, PHOENIX (AZ0426



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

INORGANICS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0448-01 (LB2-5 | S-10 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1I0513 | 0.50 | ND | 1 | 9/5/01 | 9/5/01 | |
| Sample ID: PKH0448-02 (LB2-5 | S-20 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1I0513 | 0.50 | ND | 1 | 9/5/01 | 9/5/01 | |
| Sample ID: PKH0448-03 (LB2-5 | S-30 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1I0513 | 0.50 | ND | 1 . | 9/5/01 | 9/5/01 | |
| Sample ID: PKH0448-05 (LB2-5 | S-40 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1I0611 | 0.50 | ND | 1 | 9/6/01 | 9/6/01 | M2 |
| Sample ID: PKH0448-06 (LB2-5 | S-50 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1I0611 | 0.50 | ND | 1 | 9/6/01 | 9/6/01 | |
| | | | mg/l | mg/l | | | | |
| Sample ID: PKH0448-08 (Rinsa | ite-3 - Water) | | | | | | | |
| Total Cyanide | SM4500-CN,C-E | P1I0619 | 0.020 | ND | 1 | 9/6/01 | 9/6/01 | L3 |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25 | /01 | | | | | | | | | |
| Blank Analyzed: 09/04/01 (P1H2501- | | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | | | | | | | |
| Benzene | ND | 100 | ug/kg | | | | | | | |
| Bromobenzene | ND | 250 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 250 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 100 | ug/kg | | | | | | | |
| Bromoform | ND | 250 | ug/kg | | | | | | | |
| Bromomethane | ND | 250 | ug/kg | | | | | | | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| Carbon Disulfide | ND | 250 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 250 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Chloroethane | ND | 250 | ug/kg | | | | | | | |
| Chloroform | ND | 100 | ug/kg | | | | | | | |
| Chloromethane | ND | 250 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND. | 250 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 100 | ug/kg | | | | | | | |
| Dibromomethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,4-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Dichlorodifluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 250 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| Melissa Evans | | | 5 0 | | | | | | | DIZ110449 |

Melissa Evans Project Manager

PKH0448 Page 12 of 37



%REC

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

Reporting

PKH0448

Received: 08/25/01

RPD

Data

N ETHODER ANKYDODATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Spike

Source

| | | reporting | | Spike | Source | | 701120 | | 10, 10 | 2 |
|-----------------------------------|---------|-----------|-------|-------|--------|------|--------|-----|--------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/2 | 25/01 | | | | | | | | | |
| Blank Analyzed: 09/04/01 (P1H250) | 1-BLK1) | | | | | | | | | |
| 1,1-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 250 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 500 | ug/kg | | | | | | | |
| Iodomethane | ND | 100 | ug/kg | | | | | | | |
| lsopropylbenzene | ND | 100 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 100 | ug/kg | | | | | | | |
| Methylene chloride | ND | 500 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 500 | ug/kg | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | | | | |
| Naphthalene | ND | 250 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 100 | ug/kg | | | | | | | |
| Styrene | ND | 100 | ug/kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | | | | | | | |
| I,1,2,2-Tetrachloroethane | ND | 100 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 100 | ug/kg | | | | | | | |
| Toluene | ND | 100 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,I,2-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| Trichloroethene | ND | 100 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Vinyl acetate | ND | 1200 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 250 | ug/kg | | | | | | | |
| Xylenes, Total | ND | 300 | ug/kg | | | | | | | |
| Surrogate: Dibromofluoromethane | 1350 | | ug/kg | 1250 | | 108 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1450 | | ug/kg | 1250 | | 116 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1380 | | ug/kg | 1250 | | 110 | 70-130 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

METHOD BLANKQC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25 | <u>/01</u> | | | | | | | | | |
| LCS Analyzed: 09/06/01 (P1H2501-B | S1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 40.0 | 5-200 | | | |
| Benzene | 1010 | 100 | ug/kg | 1000 | | 101 | 65-130 | | | |
| Bromobenzene | 1020 | 250 | ug/kg | 1000 | | 102 | 60-135 | | | |
| Bromochloromethane | 1070 | 250 | ug/kg | 1000 | | 107 | 60-135 | | | |
| Bromodichloromethane | 971 | 100 | ug/kg | 1000 | | 97.1 | 30-135 | | | |
| Bromoform | 753 | 250 | ug/kg | 1000 | | 75.3 | 60-140 | | | |
| Bromomethane | 570 | 250 | ug/kg | 1000 | | 57.0 | 10-200 | | | |
| 2-Butanone (MEK) | 514 | 500 | ug/kg | 1000 | | 51.4 | 10-160 | | | |
| n-Butylbenzene | 999 | 250 | ug/kg | 1000 | , | 99.9 | 65-125 | | | |
| sec-Butylbenzene | 1040 | 250 | ug/kg | 1000 | | 104 | 70-135 | | | |
| tert-Butylbenzene | 1040 | 250 | ug/kg | 1000 | | 104 | 70-130 | | | |
| Carbon Disulfide | 797 | 250 | ug/kg | 1000 | | 79.7 | 20-120 | | | |
| Carbon tetrachloride | 923 | 250 | ug/kg | 1000 | | 92.3 | 70-140 | | | |
| Chlorobenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-125 | | | |
| Chloroethane | 564 | 250 | ug/kg | 1000 | | 56.4 | 10-200 | | | |
| Chloroform | 1030 | 100 | ug/kg | 1000 | | 103 | 35-135 | | | |
| Chloromethane | 594 | 250 | ug/kg | 1000 | | 59.4 | 10-200 | | | |
| 2-Chlorotoluene | 1030 | 250 | ug/kg | 1000 | | 103 | 70-135 | | | |
| 4-Chlorotoluene | 1030 | 250 | ug/kg | 1000 | | 103 | 75-135 | | | |
| Dibromochloromethane | 908 | 100 | ug/kg | 1000 | | 90.8 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 696 | 250 | ug/kg | 1000 | | 69.6 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 911 | 100 | ug/kg | 1000 | | 91.1 | 70-130 | | | |
| Dibromomethane | 995 | 100 | ug/kg | 1000 | | 99.5 | 65-130 | | | |
| 1,2-Dichlorobenzene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-125 | | | |
| 1,3-Dichlorobenzene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-125 | | | |
| 1,4-Dichlorobenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-135 | | | |
| Dichlorodifluoromethane | 385 | 250 | ug/kg | 1000 | | 38.5 | 10-185 | | | |
| 1,1-Dichloroethane | 1030 | 100 | ug/kg | 1000 | | 103 | 60-140 | | | |
| 1,2-Dichloroethane | 1000 | 100 | ug/kg | 1000 | | 100 | 55-135 | | | |
| 1,1-Dichloroethene | 991 | 250 | ug/kg | 1000 | | 99.1 | 55-145 | | | |
| cis-1,2-Dichloroethene | 1030 | 100 | ug/kg | 1000 | | 103 | 60-125 | | | |
| trans-1,2-Dichloroethene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-145 | | | |
| 1,2-Dichloropropane | 1040 | 100 | ug/kg | 1000 | | 104 | 65-130 | | | |
| 1,3-Dichloropropane | 936 | 100 | ug/kg | 1000 | | 93.6 | 65-130 | | | |
| 2,2-Dichloropropane | 666 | 100 | ug/kg | 1000 | | 66.6 | 60-135 | | | |
| 1,1-Dichloropropene | 1020 | 100 | ug/kg | 1000 | | 102 | 65-130 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: [none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

MELHOD BLANK OC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25/ | <u>01</u> | | | | | | | | | |
| LCS Analyzed: 09/06/01 (P1H2501-BS | 51) | | | | | | | | | |
| cis-1,3-Dichloropropene | 947 | 100 | ug/kg | 1000 | | 94.7 | 60-125 | | | |
| trans-1,3-Dichloropropene | 871 | 100 | ug/kg | 1000 | | 87.1 | 50-130 | | | |
| Ethylbenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-125 | | | |
| Hexachlorobutadiene | 905 | 250 | ug/kg | 1000 | | 90.5 | 60-125 | | | |
| 2-Hexanone | 636 | 500 | ug/kg | 1000 | | 63.6 | 25-185 | | | |
| Iodomethane | 1060 | 100 | ug/kg | 1000 | | 106 | 30-155 | | | |
| Isopropylbenzene | 1080 | 100 | ug/kg | 1000 | | 108 | 70-135 | | | |
| p-Isopropyltoluene | 991 | 100 | ug/kg | 1000 | | 99.1 | 65-130 | | | |
| Methylene chloride | 990 | 500 | ug/kg | 1000 | | 99.0 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 719 | 500 | ug/kg | 1000 | | 71.9 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 846 | 250 | ug/kg | 1000 | | 84.6 | 55-135 | | | |
| Naphthalene | 875 | 250 | ug/kg | 1000 | | 87.5 | 45-155 | | | |
| n-Propylbenzene | 1080 | 100 | ug/kg | 1000 | | 108 | 75-135 | | | |
| Styrene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 977 | 250 | ug/kg | 1000 | | 97.7 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 807 | 100 | ug/kg | 1000 | | 80.7 | 60-140 | | | |
| Tetrachloroethene | 1060 | 100 | ug/kg | 1000 | | 106 | 65-130 | | | |
| Toluene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 965 | 250 | ug/kg | 1000 | | 96.5 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 991 | 250 | ug/kg | 1000 | | 99.1 | 55-135 | | | |
| 1,1,1-Trichloroethane | 977 | 100 | ug/kg | 1000 | | 97.7 | 65-135 | | | |
| 1,1,2-Trichloroethane | 961 | 100 | ug/kg | 1000 | | 96.1 | 65-130 | | | |
| Trichloroethene | 1100 | 100 | ug/kg | 1000 | | 110 | 70-130 | | | |
| Trichlorofluoromethane | 692 | 250 | ug/kg | 1000 | | 69.2 | 10-200 | | | |
| 1,2,3-Trichloropropane | 809 | 500 | ug/kg | 1000 | | 80.9 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 1020 | 100 | ug/kg | 1000 | | 102 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 28.8 | 25-130 | | | |
| Vinyl chloride | 575 | 250 | ug/kg | 1000 | | 57.5 | 10-200 | | | |
| Xylenes, Total | 3160 | 300 | ug/kg | 3000 | | 105 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 1290 | | ug/kg | 1250 | | 103 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1310 | | ug/kg | 1250 | | 105 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1320 | | ug/kg | 1250 | | 106 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: [none]

Sampled: 08/25/01 Received: 08/25/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0448

METHOD BLANK QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|------------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25 | <u>/01</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/07/01 (P1H25 | 01-BSD1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 44.2 | 5-200 | 9.98 | 35 | |
| Benzene | 916 | 100 | ug/kg | 1000 | | 91.6 | 65-130 | 9.76 | 35 | |
| Bromobenzene | 972 | 250 | ug/kg | 1000 | | 97.2 | 60-135 | 4.82 | 35 | |
| Bromochloromethane | 996 | 250 | ug/kg | 1000 | | 99.6 | 60-135 | 7.16 | 35 | |
| Bromodichloromethane | 924 | 100 | ug/kg | 1000 | | 92.4 | 30-135 | 4.96 | 35 | |
| Bromoform | 812 | 250 | ug/kg | 1000 | | 81.2 | 60-140 | 7.54 | 35 | |
| Bromomethane | 489 | 250 | ug/kg | 1000 | | 48.9 | 10-200 | 15.3 | 35 | |
| 2-Butanone (MEK) | 572 | 500 | ug/kg | 1000 | | 57.2 | 10-160 | 10.7 | 35 | |
| n-Butylbenzene | 970 | 250 | ug/kg | 1000 | | 97.0 | 65-125 | 2.95 | 35 | |
| sec-Butylbenzene | 969 | 250 | ug/kg | 1000 | | 96.9 | 70-135 | 7.07 | 35 | |
| tert-Butylbenzene | 971 | 250 | ug/kg | 1000 | | 97.1 | 70-130 | 6.86 | 35 | |
| Carbon Disulfide | 698 | 250 | ug/kg | 1000 | | 69.8 | 20-120 | 13.2 | 35 | |
| Carbon tetrachloride | 924 | 250 | ug/kg | 1000 | | 92.4 | 70-140 | 0.108 | 35 | |
| Chlorobenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-125 | 4.83 | 35 | |
| Chloroethane | 492 | 250 | ug/kg | 1000 | | 49.2 | 10-200 | 13.6 | 35 | |
| Chloroform | 953 | 100 | ug/kg | 1000 | | 95.3 | 35-135 | 7.77 | 35 | |
| Chloromethane | 475 | 250 | ug/kg | 1000 | | 47.5 | 10-200 | 22.3 | 35 | |
| 2-Chlorotoluene | 968 | 250 | ug/kg | 1000 | | 96.8 | 70-135 | 6.21 | 35 | |
| 4-Chlorotoluene | 961 | 250 | ug/kg | 1000 | | 96.1 | 75-135 | 6.93 | 35 | |
| Dibromochloromethane | 931 | 100 | ug/kg | 1000 | | 93.1 | 35-135 | 2.50 | 35 | |
| 1,2-Dibromo-3-chloropropane | 745 | 250 | ug/kg | 1000 | | 74.5 | 50-155 | 6.80 | 35 | |
| 1,2-Dibromoethane (EDB) | 931 | 100 | ug/kg | 1000 | | 93.1 | 70-130 | 2.17 | 35 | |
| Dibromomethane | 942 | 100 | ug/kg | 1000 | | 94.2 | 65-130 | 5.47 | 35 | |
| 1,2-Dichlorobenzene | 961 | 100 | ug/kg | 1000 | | 96.1 | 70-125 | 7.90 | 35 | |
| 1,3-Dichlorobenzene | 990 | 100 | ug/kg | 1000 | | 99.0 | 70-125 | 4.93 | 35 | |
| 1,4-Dichlorobenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-135 | 4.83 | 35 | |
| Dichlorodifluoromethane | 253 | 250 | ug/kg | 1000 | | 25.3 | 10-185 | 41.4 | 35 | R6 |
| 1,1-Dichloroethane | 940 | 100 | ug/kg | 1000 | | 94.0 | 60-140 | 9.14 | 35 | |
| 1,2-Dichloroethane | 921 | 100 | ug/kg | 1000 | | 92.1 | 55-135 | 8.22 | 35 | |
| 1,1-Dichloroethene | 902 | 250 | ug/kg | 1000 | | 90.2 | 55-145 | 9.40 | 35 | |
| cis-1,2-Dichloroethene | 973 | 100 | ug/kg | 1000 | | 97.3 | 60-125 | 5.69 | 35 | |
| trans-1,2-Dichloroethene | 951 | 100 | ug/kg | 1000 | | 95.1 | 70-145 | 8.94 | 35 - | |
| 1,2-Dichloropropane | 967 | 100 | ug/kg | 1000 | | 96.7 | 65-130 | 7.27 | 35 | |
| 1,3-Dichloropropane | 956 | 100 | ug/kg | 1000 | | 95.6 | 65-130 | 2.11 | 35 | |
| 2,2-Dichloropropane | 855 | 100 | ug/kg | 1000 | | 85.5 | 60-135 | 24.9 | 35 | |
| 1,1-Dichloropropene | 939 | 100 | ug/kg | 1000 | | 93.9 | 65-130 | 8.27 | 35 | |
| | | | | | | | | | | |

Melissa Evans Project Manager PKH0448 Page 16 of 37



Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: [ne

[none]

Sampled: 08/25/01

Report Number: PKH0448

Received: 08/25/01

NIETHOD BLANKIOC DATE:

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|------------|-----------|-------|---------------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25/ | <u>′01</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/07/01 (P1H250 | 01-BSD1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 948 | 100 | ug/kg | 1000 | | 94.8 | 60-125 | 0.106 | 35 | |
| trans-1,3-Dichloropropene | 896 | 100 | ug/kg | 1000 | | 89.6 | 50-130 | 2.83 | 35 | |
| Ethylbenzene | 997 | 100 | ug/kg | 1000 | | 99.7 | 70-125 | 6.13 | 35 | |
| Hexachlorobutadiene | 927 | 250 | ug/kg | 1000 | | 92.7 | 60-125 | 2.40 | 35 | |
| 2-Hexanone | 698 | 500 | ug/kg | 1000 | | 69.8 | 25-185 | 9.30 | 35 | |
| Iodomethane | 965 | 100 | ug/kg | 1000 | | 96.5 | 30-155 | 9.38 | 35 | |
| Isopropylbenzene | 1020 | 100 | ug/kg | 1000 | | 102 | 70-135 | 5.71 | 35 | |
| p-Isopropyltoluene | 942 | 100 | ug/kg | 1000 | | 94.2 | 65-130 | 5.07 | 35 | |
| Methylene chloride | 952 | 500 | ug/kg | 1000 | | 95.2 | 60-140 | 3.91 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 752 | 500 | ug/kg | 1000 | | 75.2 | 10-175 | 4.49 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 876 | 250 | ug/kg | 1000 | | 87.6 | 55-135 | 3.48 | 35 | |
| Naphthalene | 893 | 250 | ug/kg | 1000 | | 89.3 | 45-155 | 2.04 | 35 | |
| n-Propylbenzene | 1030 | 100 | ug/kg | 1000 | | 103 | 75-135 | 4.74 | 35 | |
| Styrene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-130 | 4.83 | 35 | |
| 1,1,1,2-Tetrachloroethane | 987 | 250 | ug/kg | 1000 | | 98.7 | 70-130 | 1.02 | 35 | |
| 1,1,2,2-Tetrachloroethane | 872 | 100 | ug/kg | 1000 | | 87.2 | 60-140 | 7.74 | 35 | |
| Tetrachloroethene | 1010 | 100 | ug/kg | 1000 | | 101 | 65-130 | 4.83 | 35 | |
| Toluene | 958 | 100 | ug/kg | 1000 | | 95.8 | 70-125 | 5.28 | 35 | |
| 1,2,3-Trichlorobenzene | 968 | 250 | ug/kg | 1000 | | 96.8 | 60-135 | 0.310 | 35 | |
| 1,2,4-Trichlorobenzene | 959 | 250 | ug/kg | 1000 | | 95.9 | 55-135 | 3.28 | 35 | |
| 1,1,1-Trichloroethane | 935 | 100 | ug/kg | 1000 | | 93.5 | 65-135 | 4.39 | 35 | |
| 1,1,2-Trichloroethane | 944 | 100 | ug/kg | 1000 | | 94.4 | 65-130 | 1.78 | 35 | |
| Trichloroethene | 987 | 100 | ug/kg | 1000 | | 98.7 | 70-130 | 10.8 | 35 | |
| Trichlorofluoromethane | 593 | 250 | ug/kg | 1000 | | 59.3 | 10-200 | 15.4 | 35 | |
| 1,2,3-Trichloropropane | 845 | 500 | ug/kg | 1000 | | 84.5 | 60-150 | 4.35 | 35 | |
| 1,2,4-Trimethylbenzene | 988 | 100 | ug/kg | 1000 | | 98.8 | 75-130 | 7.03 | 35 | |
| 1,3,5-Trimethylbenzene | 963 | 100 | ug/kg | 1000 | | 96.3 | 70-130 | 5.75 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 77.2 | 25-130 | 91.3 | 35 | R6 |
| Vinyl chloride | 433 | 250 | ug/kg | 1 0 00 | | 43.3 | 10-200 | 28.2 | 35 | |
| Xylenes, Total | 3040 | 300 | ug/kg | 3000 | | 101 | 70-130 | 3.87 | 35 | |
| Surrogate: Dibromofluoromethane | 1240 | | ug/kg | 1250 | | 99.2 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1290 | | ug/kg | 1250 | | 103 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1240 | | ug/kg | 1250 | | 99.2 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|--------------|-----------|-------|-------|-----------|---------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/ | 25/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/05/01 (| P1H2501-MS1) | | | | Source: P | KH0445- | 01 | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | ND | 87.5 | 5-200 | | | |
| Benzene | 811 | 100 | ug/kg | 1000 | ND | 81.1 | 65-130 | | | |
| Bromobenzene | 804 | 250 | ug/kg | 1000 | ND | 80.4 | 60-135 | | | |
| Bromochloromethane | 811 | 250 | ug/kg | 1000 | ND | 81.1 | 60-135 | | | |
| Bromodichloromethane | 792 | 100 | ug/kg | 1000 | ND | 79.2 | 30-135 | | | |
| Bromoform | 756 | 250 | ug/kg | 1000 | ND | 75.6 | 60-140 | | | |
| Bromomethane | ND | 250 | ug/kg | 1000 | ND | 12.0 | 10-200 | | | |
| 2-Butanone (MEK) | 872 | 500 | ug/kg | 1000 | ND | 87.2 | 10-160 | | | |
| n-Butylbenzene | 753 | 250 | ug/kg | 1000 | ND | 75.3 | 65-125 | | | |
| sec-Butylbenzene | 826 | 250 | ug/kg | 1000 | ND | 82.6 | 70-135 | | | |
| tert-Butylbenzene | 802 | 250 | ug/kg | 1000 | ND | 80.2 | 70-130 | | | |
| Carbon Disulfide | 638 | 250 | ug/kg | 1000 | ND | 63.8 | 20-120 | | | |
| Carbon tetrachloride | 782 | 250 | ug/kg | 1000 | ND | 78.2 | 70-140 | | | |
| Chlorobenzene | 796 | 100 | ug/kg | 1000 | ND | 79.6 | 75-125 | | | |
| Chloroethane | ND | 250 | ug/kg | 1000 | ND | 20.5 | 10-200 | | | |
| Chloroform | 764 | 100 | ug/kg | 1000 | ND | 76.4 | 35-135 | | | |
| Chloromethane | 594 | 250 | ug/kg | 1000 | ND | 59.4 | 10-200 | | | |
| 2-Chlorotoluene | 817 | 250 | ug/kg | 1000 | ND | 81.7 | 70-135 | | | |
| 4-Chlorotoluene | 832 | 250 | ug/kg | 1000 | ND | 83.2 | 75-135 | | | |
| Dibromochloromethane | 748 | 100 | ug/kg | 1000 | ND | 74.8 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 7 37 | 250 | ug/kg | 1000 | ND | 73.7 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 750 | 100 | ug/kg | 1000 | ND | 75.0 | 70-130 | | | |
| Dibromomethane | 790 | 100 | ug/kg | 1000 | ND | 79.0 | 65-130 | | | |
| 1,2-Dichlorobenzene | 789 | 100 | ug/kg | 1000 | ND | 78.9 | 70-125 | | | |
| 1,3-Dichlorobenzene | 810 | 100 | ug/kg | 1000 | ND | 81.0 | 70-125 | | | |
| 1,4-Dichlorobenzene | 822 | 100 | ug/kg | 1000 | ND | 82.2 | 70-135 | | | |
| Dichlorodifluoromethane | 303 | 250 | ug/kg | 1000 | ND | 30.3 | 10-185 | | | |
| 1,1-Dichloroethane | 731 | 100 | ug/kg | 1000 | ND | 73.1 | 60-140 | | | |
| 1,2-Dichloroethane | 777 | 100 | ug/kg | 1000 | ND | 77.7 | 55-135 | | | |
| 1,1-Dichloroethene | 752 | 250 | ug/kg | 1000 | ND | 75.2 | 55-145 | | | |
| cis-1,2-Dichloroethene | 807 | 100 | ug/kg | 1000 | ND | 80.7 | 60-125 | | | |
| trans-1,2-Dichloroethene | 776 | 100 | ug/kg | 1000 | ND | 77.6 | 70-145 | | | |
| 1,2-Dichloropropane | 821 | 100 | ug/kg | 1000 | ND | 82.1 | 65-130 | | | |
| 1,3-Dichloropropane | 792 | 100 | ug/kg | 1000 | ND | 79.2 | 65-130 | | | |
| 2,2-Dichloropropane | 707 | 100 | ug/kg | 1000 | ND | 70.7 | 60-135 | | | |
| 1,1-Dichloropropene | 780 | 100 | ug/kg | 1000 | ND | 78.0 | 65-130 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager

PKH0448 Page 18 of 37





Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|--------------|-----------|-------|-------|-----------|---------|---------------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/ | 25/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/05/01 (1 | P1H2501-MS1) | | | | Source: P | KH0445- | 01 | | | |
| cis-1,3-Dichloropropene | 811 | 100 | ug/kg | 1000 | ND | 81.1 | 60-125 | | | |
| trans-1,3-Dichloropropene | 737 | 100 | ug/kg | 1000 | ND | 73.7 | 50-130 | | | |
| Ethylbenzene | 816 | 100 | ug/kg | 1000 | ND | 81.6 | 70-125 | | | |
| Hexachlorobutadiene | 521 | 250 | ug/kg | 1000 | ND | 52.1 | 60-125 | | | M2 |
| 2-Hexanone | 768 | 500 | ug/kg | 1000 | ND | 76.8 | 25-185 | | | |
| Iodomethane | 624 | 100 | ug/kg | 1000 | ND | 62.4 | 30-155 | | | |
| Isopropylbenzene | 801 | 100 | ug/kg | 1000 | ND | 80.1 | 70-135 | | | |
| p-Isopropyltoluene | 7 78 | 100 | ug/kg | 1000 | ND | 77.8 | 65-130 | | | |
| Methylene chloride | 864 | 500 | ug/kg | 1000 | ND | 86.4 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 765 | 500 | ug/kg | 1000 | ND | 76.5 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 772 | 250 | ug/kg | 1000 | ND | 77.2 | 55-135 | | | |
| Naphthalene | 705 | 250 | ug/kg | 1000 | ND | 70.5 | 45-155 | | | |
| n-Propylbenzene | 844 | 100 | ug/kg | 1000 | ND | 84.4 | 75-135 | | | |
| Styrene | 805 | 100 | ug/kg | 1000 | ND | 80.5 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 778 | 250 | ug/kg | 1000 | ND | 77.8 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 774 | 100 | ug/kg | 1000 | ND | 77.4 | 60-140 | | | |
| Tetrachloroethene | 800 | . 100 | ug/kg | 1000 | ND | 80.0 | 65-130 | | | |
| Toluene | 792 | 100 | ug/kg | 1000 | ND | 79.2 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 646 | 250 | ug/kg | 1000 | ND | 64.6 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 703 | 250 | ug/kg | 1000 | ND | 70.3 | 55-135 | | | |
| 1,1,1-Trichloroethane | 770 | 100 | ug/kg | 1000 | ND | 77.0 | 65-135 | | | |
| 1,1,2-Trichloroethane | 764 | 100 | ug/kg | 1000 | ND | 76.4 | 65-130 | | | |
| Trichloroethene | 824 | 100 | ug/kg | 1000 | ND | 82.4 | 70-130 | | | |
| Trichlorofluoromethane | 555 | 250 | ug/kg | 1000 | ND | 55.5 | 10-200 | | | |
| 1,2,3-Trichloropropane | 798 | 500 | ug/kg | 1000 | ND | 79.8 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 842 | 100 | ug/kg | 1000 | ND | 84.2 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 830 | 100 | ug/kg | 1000 | ND | 83.0 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | 34.4 | 25-130 | | | |
| Vinyl chloride | 640 | 250 | ug/kg | 1000 | ND | 64.0 | 10-200 | | | |
| Xylenes, Total | 2420 | 300 | ug/kg | 3000 | ND | 80.7 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 917 | | ug/kg | 1250 | | 73.4 | 70-125 | | | |
| Surrogate: Toluene-d8 | 920 | | ug/kg | 1250 | | 73.6 | <i>50-135</i> | | | |
| Surrogate: 4-Bromofluorobenzene | 1030 | | ug/kg | 1250 | | 82.4 | 70-130 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: [none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

METHOD BLANK-QC DATA:

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-------------|-----------|-------|---------------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25 | <u>/01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/05/01 | (P1H2501-M | ISD1) | | | Source: F | KH0445- | 01 | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | ND | 78.8 | 5-200 | 10.5 | 35 | |
| Benzene | 829 | 100 | ug/kg | 1000 | ND | 82.9 | 65-130 | 2.20 | 35 | |
| Bromobenzene | 815 | 250 | ug/kg | 1000 | ND | 81.5 | 60-135 | 1.36 | 35 | |
| Bromochloromethane | 797 | 250 | ug/kg | 1000 | ND | 79.7 | 60-135 | 1.74 | 35 | |
| Bromodichloromethane | 818 | 100 | ug/kg | 1000 | ND | 81.8 | 30-135 | 3.23 | 35 | |
| Bromoform | 748 | 250 | ug/kg | 1000 | ND | 74.8 | 60-140 | 1.06 | 35 | |
| Bromomethane | ND | 250 | ug/kg | 1000 | ND | 10.0 | 10-200 | 18.2 | 35 | |
| 2-Butanone (MEK) | 822 | 500 | ug/kg | 1000 | ND | 82.2 | 10-160 | 5.90 | 35 | |
| n-Butylbenzene | 731 | 250 | ug/kg | 1000 | ND | 73.1 | 65-125 | 2.96 | 35 | |
| sec-Butylbenzene | 789 | 250 | ug/kg | 1000 | ND | 78.9 | 70-135 | 4.58 | 35 | |
| tert-Butylbenzene | 805 | 250 | ug/kg | 1000 | ND | 80.5 | 70-130 | 0.373 | 35 | |
| Carbon Disulfide | 656 | 250 | ug/kg | 1000 | ND | 65.6 | 20-120 | 2.78 | 35 | |
| Carbon tetrachloride | 788 | 250 | ug/kg | 1000 | ND | 78.8 | 70-140 | 0.764 | 35 | |
| Chlorobenzene | 833 | 100 | ug/kg | 1000 | ND | 83.3 | 75-125 | 4.54 | 35 | |
| Chloroethane | ND | 250 | ug/kg | 1000 | ND | 20.7 | 10-200 | 0.971 | 35 | |
| Chloroform | 745 | 100 | ug/kg | 1000 | ND | 74.5 | 35-135 | 2.52 | 35 | |
| Chloromethane | 611 | 250 | ug/kg | 10 0 0 | ND | 61.1 | 10-200 | 2.82 | 35 | |
| 2-Chlorotoluene | 813 | 250 | ug/kg | 1000 | ND | 81.3 | 70-135 | 0.491 | 35 | |
| 4-Chlorotoluene | 828 | 250 | ug/kg | 1000 | ND | 82.8 | 75-135 | 0.482 | 35 | |
| Dibromochloromethane | 766 | 100 | ug/kg | 1000 | ND | 76.6 | 35-135 | 2.38 | 35 | |
| 1,2-Dibromo-3-chloropropane | 652 | 250 | ug/kg | 1000 | ND | 65.2 | 50-155 | 12.2 | 35 | |
| 1,2-Dibromoethane (EDB) | 751 | 100 | ug/kg | 1000 | ND | 75.1 | 70-130 | 0.133 | 35 | |
| Dibromomethane | 793 | 100 | ug/kg | 1000 | ND | 79.3 | 65-130 | 0.379 | 35 | |
| 1,2-Dichlorobenzene | 802 | 100 | ug/kg | 1000 | ND | 80.2 | 70-125 | 1.63 | 35 | |
| 1,3-Dichlorobenzene | 829 | 100 | ug/kg | 1000 | ND | 82.9 | 70-125 | 2.32 | 35 | |
| 1,4-Dichlorobenzene | 829 | 100 | ug/kg | 1000 | ND | 82.9 | 70-135 | 0.848 | 35 | |
| Dichlorodifluoromethane | 368 | 250 | ug/kg | 1000 | ND | 36.8 | 10-185 | 19.4 | 35 | |
| 1,1-Dichloroethane | 735 | 100 | ug/kg | 1000 | ND | 73.5 | 60-140 | 0.546 | 35 | |
| 1,2-Dichloroethane | 806 | 100 | ug/kg | 1000 | ND | 80.6 | 55-135 | 3.66 | 35 | |
| 1,1-Dichloroethene | 780 | 250 | ug/kg | 1000 | ND | 78.0 | 55-145 | 3.66 | 35 | |
| cis-1,2-Dichloroethene | 816 | 100 | ug/kg | 1000 | ND | 81.6 | 60-125 | 1.11 | 35 | |
| trans-1,2-Dichloroethene | 807 | 100 | ug/kg | 1000 | ND | 80.7 | 70-145 | 3.92 | 35 | |
| 1,2-Dichloropropane | 847 | 100 | ug/kg | 1000 | ND | 84.7 | 65-130 | 3.12 | 35 | |
| 1,3-Dichloropropane | 7 78 | 100 | ug/kg | 1000 | ND | 77.8 | 65-130 | 1.78 | 35 | |
| 2,2-Dichloropropane | 765 | 100 | ug/kg | 1000 | ND | 76.5 | 60-135 | 7.88 | 35 | |
| 1,1-Dichloropropene | 785 | 100 | ug/kg | 1000 | ND | 78.5 | 65-130 | 0.639 | 35 | |
| | | | | | | | | | | |

Melissa Evans Project Manager

PKH0448 Page 20 of 37

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851



Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: [no

[none]

Sampled: 08/25/01

Report Number:

r: PKH0448

Received: 08/25/01

METEODELANKOC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2501 Extracted: 08/25 | /01 | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/05/01 | (P1H2501-M | SD1) | | | Source: F | KH0445- | 01 | | | |
| cis-1,3-Dichloropropene | 841 | 100 | ug/kg | 1000 | ND | 84.1 | 60-125 | 3.63 | 35 | |
| trans-1,3-Dichloropropene | 727 | 100 | ug/kg | 1000 | ND | 72.7 | 50-130 | 1.37 | 35 | |
| Ethylbenzene | 854 | 100 | ug/kg | 1000 | ND | 85.4 | 70-125 | 4.55 | 35 | |
| Hexachlorobutadiene | 827 | 250 | ug/kg | 1000 | ND | 82.7 | 60-125 | 45.4 | 35 | Q11 |
| 2-Hexanone | 718 | 500 | ug/kg | 1000 | ND | 71.8 | 25-185 | 6.73 | 35 | |
| Iodomethane | 689 | 100 | ug/kg | 1000 | ND | 68.9 | 30-155 | 9.90 | 35 | |
| Isopropylbenzene | 830 | 100 | ug/kg | 1000 | ND | 83.0 | 70-135 | 3.56 | 35 | |
| p-Isopropyltoluene | 752 | 100 | ug/kg | 1000 | ND | 75.2 | 65-130 | 3.40 | 35 | |
| Methylene chloride | 862 | 500 | ug/kg | 1000 | ND | 86.2 | 60-140 | 0.232 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 730 | 500 | ug/kg | 1000 | ND | 73.0 | 10-175 | 4.68 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 746 | 250 | ug/kg | 1000 | ND | 74.6 | 55-135 | 3.43 | 35 | |
| Naphthalene | 688 | 250 | ug/kg | 1000 | ND | 68.8 | 45-155 | 2.44 | 35 | |
| n-Propylbenzene | 832 | 100 | ug/kg | 1000 | ND | 83.2 | 75-135 | 1.43 | 35 | |
| Styrene | 824 | 100 | ug/kg | 1000 | ND | 82.4 | 70-130 | 2.33 | 35 | |
| 1,1,1,2-Tetrachloroethane | 780 | 250 | ug/kg | 1000 | ND | 78.0 | 70-130 | 0.257 | 35 | |
| 1,1,2,2-Tetrachloroethane | 722 | 100 | ug/kg | 1000 | ND | 72.2 | 60-140 | 6.95 | 35 | |
| Tetrachloroethene | 819 | 100 | ug/kg | 1000 | ND | 81.9 | 65-130 | 2.35 | 35 | |
| Toluene | 811 | 100 | ug/kg | 1000 | ND | 81.1 | 70-125 | 2.37 | 35 | |
| 1,2,3-Trichlorobenzene | 709 | 250 | ug/kg | 1000 | ND | 70.9 | 60-135 | 9.30 | 35 | |
| 1,2,4-Trichlorobenzene | 730 | 250 | ug/kg | 1000 | ND | 73.0 | 55-135 | 3.77 | 35 | |
| 1,1,1-Trichloroethane | 788 | 100 | ug/kg | 1000 | ND | 78.8 | 65-135 | 2.31 | 35 | |
| 1,1,2-Trichloroethane | 768 | 100 | ug/kg | 1000 | ND | 76.8 | 65-130 | 0.522 | 35 | |
| Trichloroethene | 858 | 100 | ug/kg | 1000 | ND | 85.8 | 70-130 | 4.04 | 35 | |
| Trichlorofluoromethane | 626 | 250 | ug/kg | 1000 | ND | 62.6 | 10-200 | 12.0 | 35 | |
| 1,2,3-Trichloropropane | 718 | 500 | ug/kg | 1000 | ND | 71.8 | 60-150 | 10.6 | 35 | |
| 1,2,4-Trimethylbenzene | 846 | 100 | ug/kg | 1000 | ND | 84.6 | 75-130 | 0.474 | 35 | |
| 1,3,5-Trimethylbenzene | 818 | 100 | ug/kg | 1000 | ND | 81.8 | 70-130 | 1.46 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | 30.4 | 25-130 | 12.3 | 35 | |
| Vinyl chloride | 672 | 250 | ug/kg | 1000 | ND | 67.2 | 10-200 | 4.88 | 35 | |
| Xylenes, Total | 2470 | 300 | ug/kg | 3000 | ND | 82.3 | 70-130 | 2.04 | 35 | |
| Surrogate: Dibromofluoromethane | 900 | | ug/kg | 1250 | | 72.0 | 70-125 | | | |
| Surrogate: Toluene-d8 | 913 | | ug/kg | 1250 | | 73.0 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1030 | | ug/kg | 1250 | | 82.4 | 70-130 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

YPHODELANKOC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0102 Extracted: 09/03/0 | 1 | | | | | | | | | |
| Blank Analyzed: 09/03/01 (P1I0102-Bl | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| | | | - B - | | | | | | | |

Melissa Evans Project Manager

PKH0448 Page 22 of 37 Law Engineering 4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

[none]

Sampled: 08/25/01

Received: 08/25/01

Report Number:

PKH0448

A CONTROL OF A CON

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0102 Extracted: 09/03/0 | <u>)1</u> | | | | | | | | | |
| Blank Analyzed: 09/03/01 (P1I0102-B | LK1) | | | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | V1,L3 |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| Surrogate: Dibromofluoromethane | 27.1 | | ug/l | 25.0 | | 108 | 80-120 | | | |
| Surrogate: Toluene-d8 | 28.2 | | ug/l | 25.0 | | 113 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.6 | | ug/l | 25.0 | | 106 | 80-120 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

[none]

Sampled: 08/25/01

PKH0448 Report Number:

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0102 Extracted: 09/03/03 | <u>L</u> | | | | | | | | | |
| LCS Analyzed: 09/03/01 (P1I0102-BS1 |) | | | | | | | | | |
| Acetone | 44.9 | 20 | ug/l | 25.0 | | 180 | 30-200 | | | |
| Benzene | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 80-120 | | | |
| Bromobenzene | 23.4 | 5.0 | ug/l | 25.0 | | 93.6 | 80-120 | | | |
| Bromochloromethane | 25.6 | 5.0 | ug/i | 25.0 | | 102 | 80-120 | | | |
| Bromodichloromethane | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 80-130 | | | |
| Bromoform | 26.2 | 5.0 | ug/l | 25.0 | | 105 | 60-140 | | | |
| Bromomethane | 28.1 | 5.0 | ug/l | 25.0 | | 112 | 60-150 | | | |
| 2-Butanone (MEK) | 31.8 | 10 | ug/l | 25.0 | | 127 | 30-185 | | | |
| n-Butylbenzene | 22.8 | 5.0 | ug/l | 25.0 | | 91.2 | 75-130 | | | |
| sec-Butylbenzene | 23.4 | 5.0 | ug/l | 25.0 | | 93.6 | 80-125 | | | |
| tert-Butylbenzene | 24.0 | 5.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| Carbon Disulfide | 25,6 | 5.0 | ug/l | 25.0 | | 102 | 65-120 | | | |
| Carbon tetrachloride | 26.4 | 5.0 | ug/l | 25.0 | | 106 | 75-150 | | | |
| Chlorobenzene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| Chloroethane | 29.2 | 5.0 | ug/l | 25.0 | | 117 | 80-125 | | | |
| Chloroform | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| Chloromethane | 21.1 | 5.0 | ug/l | 25.0 | | 84.4 | 60-125 | | | |
| 2-Chlorotoluene | 23.6 | 5.0 | ug/l | 25.0 | | 94.4 | 80-120 | | | |
| 4-Chlorotoluene | 23.7 | 5.0 | ug/l | 25.0 | | 94.8 | 80-120 | | | |
| Dibromochloromethane | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 70-150 | | | |
| 1,2-Dibromo-3-chloropropane | 23.9 | 5.0 | ug/l | 25.0 | | 95.6 | 50-145 | | | |
| 1,2-Dibromoethane (EDB) | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 75-120 | | | |
| Dibromomethane | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | | | |
| 1,2-Dichlorobenzene | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 80-120 | | | |
| 1,3-Dichlorobenzene | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 80-120 | | | |
| 1,4-Dichlorobenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| Dichlorodifluoromethane | 20.8 | 5.0 | ug/l | 25.0 | | 83.2 | 25-140 | | | |
| 1,1-Dichloroethane | 28.8 | 2.0 | ug/l | 25.0 | | 115 | 80-120 | | | |
| 1,2-Dichloroethane | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 80-120 | | | |
| 1,1-Dichloroethene | 27.9 | 5.0 | ug/l | 25.0 | | 112 | 80-120 | | | |
| cis-1,2-Dichloroethene | 29.8 | 2.0 | ug/l | 25.0 | | 119 | 80-120 | | | |
| trans-1,2-Dichloroethene | 29.4 | 2.0 | ug/l | 25.0 | | 118 | 80-120 | | | |
| 1,2-Dichloropropane | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 80-120 | | | |
| 1,3-Dichloropropane | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 2,2-Dichloropropane | 28.3 | 2.0 | ug/l | 25.0 | | 113 | 75-135 | | | |
| 1,1-Dichloropropene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager

PKH0448 Page 24 of 37

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0102 Extracted: 09/03/0 | 1_ | | | | | | | | | |
| LCS Analyzed: 09/03/01 (P1I0102-BS1 | .) | | | | | | | | | |
| cis-1,3-Dichloropropene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 80-120 | | | |
| trans-1,3-Dichloropropene | 22.8 | 2.0 | ug/l | 25.0 | | 91.2 | 80-120 | | | |
| Ethylbenzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| Hexachlorobutadiene | 28.5 | 5.0 | ug/l | 25.0 | | 114 | 60-145 | | | |
| 2-Hexanone | 30.4 | 10 | ug/l | 25.0 | | 122 | 50-170 | | | |
| Iodomethane | 33.6 | 2.0 | ug/l | 25.0 | | 134 | 40-155 | | | |
| Isopropylbenzene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| p-Isopropyltoluene | 22.5 | 2.0 | ug/l | 25.0 | | 90.0 | 80-120 | | | |
| Methylene chloride | 27.5 | 5.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 28.8 | 10 | ug/l | 25.0 | | 115 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 30.2 | 5.0 | ug/l | 25.0 | | 121 | 75-135 | | | |
| Naphthalene | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 70-130 | | | <i>~</i> |
| n-Propylbenzene | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 80-120 | | | |
| Styrene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 70-130 | | | |
| Tetrachloroethene | 25.7 | 2.0 | ug/l | 25.0 | | 103 | 80-125 | | | |
| Toluene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 25.7 | 5.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| 1,1,1-Trichloroethane | 22.8 | 2.0 | ug/l | 25.0 | | 91.2 | 80-120 | | | |
| 1,1,2-Trichloroethane | 26.3 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| Trichloroethene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| Trichlorofluoromethane | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 75-150 | | | |
| 1,2,3-Trichloropropane | 26.4 | 10 | ug/l | 25.0 | | 106 | 65-135 | | | |
| 1,2,4-Trimethylbenzene | 22.1 | 2.0 | ug/l | 25.0 | | 88.4 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 22.2 | 2.0 | ug/l | 25.0 | | 88.8 | 80-120 | | | |
| Vinyl acetate | 41.4 | 25 | ug/l | 25.0 | | 166 | 40-120 | | | V1,L3 |
| Vinyl chloride | 24.0 | 5.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| Xylenes, Total | 74.2 | 10 | ug/l | 75.0 | | 98.9 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 27.7 | | ug/l | 25.0 | | 111 | 80-120 | | | |
| Surrogate: Toluene-d8 | 28.3 | | ug/l | 25.0 | | 113 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.3 | | ug/l | 25.0 | | 105 | 80-120 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: [none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

METHOD BLANK QCDATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|--------------|-----------|-------|-------|-----------|---------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0102 Extracted: 09/0 | 3/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/03/01 (1 | P1I0102-MS1) | | | | Source: P | KH0432- | 01 | | | |
| Acetone | 26.9 | 20 | ug/l | 25.0 | ND | 108 | 5-200 | | | |
| Benzene | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 80-120 | | | |
| Bromobenzene | 24.3 | 5.0 | ug/l | 25.0 | ND | 97.2 | 80-120 | | | |
| Bromochloromethane | 24.0 | 5.0 | ug/l | 25.0 | ND | 96.0 | 60-135 | | | |
| Bromodichloromethane | 21.6 | 2.0 | ug/l | 25.0 | ND | 86.4 | 80-120 | | | |
| Bromoform | 25.2 | 5.0 | ug/l | 25.0 | ND | 101 | 40-140 | | | |
| Bromomethane | 26.1 | 5.0 | ug/i | 25.0 | ND | 104 | 25-165 | | | |
| 2-Butanone (MEK) | 25.8 | 10 | ug/1 | 25.0 | ND | 103 | 10-160 | | | |
| n-Butylbenzene | 22.7 | 5.0 | ug/l | 25.0 | ND | 90.8 | 75-135 | | | |
| sec-Butylbenzene | 23.9 | 5.0 | ug/l | 25.0 | ND | 95.6 | 80-135 | | | |
| tert-Butylbenzene | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 80-125 | | | |
| Carbon Disulfide | 23.6 | 5.0 | ug/l | 25.0 | ND | 94.4 | 20-120 | | | |
| Carbon tetrachloride | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 80-145 | | | |
| Chlorobenzene | 26.7 | 2.0 | ug/l | 25.0 | ND | 107 | 80-120 | | | |
| Chloroethane | 27.4 | 5.0 | ug/1 | 25.0 | ND | 110 | 30-150 | | | |
| Chloroform | 22.7 | 2.0 | ug/l | 25.0 | ND | 90.8 | 80-125 | | | |
| Chloromethane | 19.5 | 5.0 | ug/l | 25.0 | ND | 78.0 | 15-140 | | | |
| 2-Chlorotoluene | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 80-125 | | | |
| 4-Chlorotoluene | 24.6 | 5.0 | ug/l | 25.0 | ND | 98.4 | 80-125 | | | |
| Dibromochloromethane | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 75-135 | | | |
| 1,2-Dibromo-3-chloropropane | 20.7 | 5.0 | ug/l | 25.0 | ND | 82.8 | 25-185 | | | |
| 1,2-Dibromoethane (EDB) | 27.6 | 2.0 | ug/l | 25.0 | ND | 110 | 45-145 | | | |
| Dibromomethane | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 55-140 | | | |
| 1,2-Dichlorobenzene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | | | |
| 1,3-Dichlorobenzene | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 80-120 | | | |
| 1,4-Dichlorobenzene | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 80-120 | | | |
| Dichlorodifluoromethane | 18.0 | 5.0 | ug/l | 25.0 | ND | 72.0 | 25-145 | | | |
| 1,1-Dichloroethane | 26.8 | 2.0 | ug/l | 25.0 | ND | 107 | 75-120 | | | |
| 1,2-Dichloroethane | 21.0 | 2.0 | ug/l | 25.0 | ND | 84.0 | 60-135 | | | |
| 1,1-Dichloroethene | 25.9 | 5.0 | ug/l | 25.0 | ND | 104 | 55-120 | | | |
| cis-1,2-Dichloroethene | 27.2 | 2.0 | ug/l | 25.0 | ND | 109 | 75-120 | | | |
| trans-1,2-Dichloroethene | 27.7 | 2.0 | ug/l | 25.0 | ND | 111 | 65-120 | | | |
| 1,2-Dichloropropane | 22.0 | 2.0 | ug/l | 25.0 | ND | 88.0 | 80-125 | | | |
| 1,3-Dichloropropane | 26.1 | 2.0 | ug/l | 25.0 | ND | 104 | 55-140 | | | |
| 2,2-Dichloropropane | 27.1 | 2.0 | ug/l | 25.0 | ND | 108 | 45-165 | | | |
| 1,1-Dichloropropene | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 80-120 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager

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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

[none]

Sampled: 08/25/01 Received: 08/25/01

Attention: Jim Clarke

Report Number:

PKH0448

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|---------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0102 Extracted: 09/03 | <u>/01</u> | | | | | | | | | |
| Matrix Spike Analyzed: 09/03/01 (P1 | 10102-MS1) | | | | Source: P | KH0432- | 01 | | | |
| cis-1,3-Dichloropropene | 20.5 | 2.0 | ug/l | 25.0 | ND | 82.0 | 80-120 | | | |
| trans-1,3-Dichloropropene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 70-120 | | | |
| Ethylbenzene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | | | |
| Hexachlorobutadiene | 21.1 | 5.0 | ug/l | 25.0 | ND | 84.4 | 80-135 | | | |
| 2-Hexanone | 26.6 | 10 | ug/l | 25.0 | ND | 106 | 25-185 | | | |
| Iodomethane | 33.3 | 2.0 | ug/l | 25.0 | ND | 133 | 30-155 | | | |
| Isopropylbenzene | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 80-125 | | | |
| p-Isopropyltoluene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 80-125 | | | |
| Methylene chloride | 26.6 | 5.0 | ug/l | 25.0 | ND | 106 | 55-125 | | | |
| 4-Methyl-2-pentanone (MIBK) | 24.0 | 10 | ug/l | 25.0 | ND | 96.0 | 10-175 | | | • |
| Methyl-tert-butyl Ether (MTBE) | 27.0 | 5.0 | ug/l | 25.0 | ND | 108 | 55-135 | | | |
| Naphthalene | 23.0 | 5.0 | ug/l | 25.0 | ND | 92.0 | 15-160 | | | |
| n-Propylbenzene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 80-130 | | | |
| Styrene | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 60-135 | | | |
| 1,1,1,2-Tetrachloroethane | 27.2 | 5.0 | ug/l | 25.0 | ND | 109 | 80-135 | | | |
| 1,1,2,2-Tetrachloroethane | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 35-150 | | | |
| Tetrachloroethene | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |
| Toluene | 25.5 | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 22.5 | 5.0 | ug/l | 25.0 | ND | 90.0 | 45-145 | | | |
| 1,2,4-Trichlorobenzene | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 65-130 | | | |
| 1,1,1-Trichloroethane | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 80-120 | | | |
| 1,1,2-Trichloroethane | 26.2 | 2.0 | ug/l | 25.0 | ND | 105 | 55-145 | | | |
| Trichloroethene | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 80-120 | | | |
| Trichlorofluoromethane | 22.7 | 5.0 | ug/l | 25.0 | ND | 90.8 | 70-145 | | | |
| 1,2,3-Trichloropropane | 25.3 | 10 | ug/l | 25.0 | ND | 101 | 20-160 | | | |
| 1,2,4-Trimethylbenzene | 22.9 | 2.0 | ug/l | 25.0 | ND | 91.6 | 70-135 | | | |
| 1,3,5-Trimethylbenzene | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 80-125 | | | |
| Vinyl acetate | 34.4 | 25 | ug/l | 25.0 | ND | 138 | 25-130 | | | N2 |
| Vinyl chloride | 22.2 | 5.0 | ug/l | 25.0 | ND | 88.8 | 25-135 | | | |
| Xylenes, Total | 75.9 | 10 | ug/l | 75.0 | ND | 101 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 27.0 | | ug/l | 25.0 | | 108 | 80-120 | | | |
| Surrogate: Toluene-d8 | 28.2 | | ug/l | 25.0 | | 113 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.2 | | ug/l | 25.0 | | 105 | 80-120 | | | |



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention:

Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0102 Extracted: 09/03/ | <u>′01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/03/01 | (P1I0102-M | SD1) | | | Source: I | KH0432- | 01 | | | |
| Acetone | 28.4 | 20 | ug/l | 25.0 | ND | 114 | 5-200 | 5.42 | 20 | |
| Benzene | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 80-120 | 0.00 | 20 | |
| Bromobenzene | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 80-120 | 0.820 | 20 | |
| Bromochloromethane | 23.7 | 5.0 | ug/l | 25.0 | ND | 94.8 | 60-135 | 1.26 | 20 | |
| Bromodichloromethane | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 80-120 | 0.922 | 20 | |
| Bromoform | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 40-140 | 1.20 | 20 | |
| Bromomethane | 26.0 | 5.0 | ug/l | 25.0 | ND | 104 | 25-165 | 0.384 | 20 | |
| 2-Butanone (MEK) | 25.2 | 10 | ug/l | 25.0 | ND | 101 | 10-160 | 2.35 | 20 | |
| n-Butylbenzene | 22.8 | 5.0 | ug/l | 25.0 | ND | 91.2 | 75-135 | 0.440 | 20 | |
| sec-Butylbenzene | 24.2 | 5.0 | ug/l | 25.0 | ND | 96.8 | 80-135 | 1.25 | 20 | |
| tert-Butylbenzene | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 80-125 | 0.00 | 20 | |
| Carbon Disulfide | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 20-120 | 1.28 | 20 | |
| Carbon tetrachloride | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 80-145 | 0.813 | 20 | |
| Chlorobenzene | 26.2 | 2.0 | ug/l | 25.0 | ND | 105 | 80-120 | 1.89 | 20 | |
| Chloroethane | 27.4 | 5.0 | ug/l | 25.0 | ND | 110 | 30-150 | 0.00 | 20 | |
| Chloroform | 22.5 | 2.0 | ug/l | 25.0 | ND | 90.0 | 80-125 | 0.885 | 20 | |
| Chloromethane | 19.6 | 5.0 | ug/l | 25.0 | ND | 78.4 | 15-140 | 0.512 | 20 | |
| 2-Chlorotoluene | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 80-125 | 0.806 | 20 | |
| 4-Chlorotoluene | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 80-125 | 1.21 | 20 | |
| Dibromochloromethane | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 75-135 | 0.00 | 20 | |
| 1,2-Dibromo-3-chloropropane | 21.3 | 5.0 | ug/i | 25.0 | ND | 85.2 | 25-185 | 2.86 | 20 | |
| 1,2-Dibromoethane (EDB) | 27.1 | 2.0 | ug/l | 25.0 | ND | 108 | 45-145 | 1.83 | 20 | |
| Dibromomethane | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 55-140 | 1.79 | 20 | |
| 1,2-Dichlorobenzene | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 80-120 | 1.23 | 20 | |
| 1,3-Dichlorobenzene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | 1.25 | 20 | |
| 1,4-Dichlorobenzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | 1.22 | 20 | |
| Dichlorodifluoromethane | 17.8 | 5.0 | ug/l | 25.0 | ND | 71.2 | 25-145 | 1.12 | 20 | |
| 1,1-Dichloroethane | 26.8 | 2.0 | ug/l | 25.0 | ND | 107 | 75-120 | 0.00 | 20 | |
| 1,2-Dichloroethane | 21.6 | 2.0 | ug/l | 25.0 | ND | 86.4 | 60-135 | 2.82 | 20 | |
| 1,1-Dichloroethene | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 55-120 | 3.94 | 20 | |
| cis-1,2-Dichloroethene | 27.7 | 2.0 | ug/l | 25.0 | ND | 111 | 75-120 | 1.82 | 20 | |
| trans-1,2-Dichloroethene | 26.9 | 2.0 | ug/l | 25.0 | ND | 108 | 65-120 | 2.93 | 20 | |
| 1,2-Dichloropropane | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 80-125 | 0.905 | 20 | |
| 1,3-Dichloropropane | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 55-140 | 1.93 | 20 | |
| 2,2-Dichloropropane | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 45-165 | 2.62 | 20 | |
| 1,1-Dichloropropene | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 80-120 | 0.432 | 20 | |
| | | | - | | | | | | | |

Melissa Evans Project Manager

(949) 261-1022 FAX (949) 261-1228 (999) 370-1042 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: [none]

Sampled: 08/25/01

Attention: Jim Clarke

Report Number:

PKH0448

Received: 08/25/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P110102 Extracted: 09/03/0 | <u>)1</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/03/01 | (P1I0102-M | SD1) | | | Source: I | PKH0432- | 01 | | | |
| cis-1,3-Dichloropropene | 20.6 | 2.0 | ug/l | 25.0 | ND | 82.4 | 80-120 | 0.487 | 20 | |
| trans-1,3-Dichloropropene | 22.3 | 2.0 | ug/l | 25.0 | ND | 89.2 | 70-120 | 3.09 | 20 | |
| Ethylbenzene | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | 0.778 | 20 | |
| Hexachlorobutadiene | 22.9 | 5.0 | ug/l | 25.0 | ND | 91.6 | 80-135 | 8.18 | 20 | |
| 2-Hexanone | 26.4 | 10 | ug/l | 25.0 | ND | 106 | 25-185 | 0.755 | 20 | |
| Iodomethane | 33.1 | 2.0 | ug/l | 25.0 | ND | 132 | 30-155 | 0.602 | 20 | |
| Isopropylbenzene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-125 | 2.39 | 20 | |
| p-Isopropyltoluene | 22.7 | 2.0 | ug/l | 25.0 | ND | 90.8 | 80-125 | 1.31 | 20 | |
| Methylene chloride | 26.3 | 5.0 | ug/l | 25.0 | ND | 105 | 55-125 | 1.13 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 23.9 | 10 | ug/l | 25.0 | ND | 95.6 | 10-175 | 0.418 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 27.1 | 5.0 | ug/l | 25.0 | ND | 108 | 55-135 | 0.370 | 20 | |
| Naphthalene | 22.5 | 5.0 | ug/l | 25.0 | ND | 90.0 | 15-160 | 2.20 | 20 | |
| n-Propylbenzene | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 80-130 | 0.00 | 20 | |
| Styrene | 11.6 | 2.0 | ug/l | 25.0 | ND | 46.4 | 60-135 | 65.5 | 20 | M2,Q11 |
| 1,1,1,2-Tetrachloroethane | 26.0 | 5.0 | ug/l | 25.0 | ND | 104 | 80-135 | 4.51 | 20 | |
| 1,1,2,2-Tetrachloroethane | 24.6 | 2.0 | ug/l | 25.0 | ND | 98.4 | 35-150 | 0.00 | 20 | |
| Tetrachloroethene | 25.9 | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | 0.387 | 20 | |
| Toluene | 25.1 | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | 1.58 | 20 | |
| 1,2,3-Trichlorobenzene | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 45-145 | 4.35 | 20 | |
| 1,2,4-Trichlorobenzene | 25.4 | 5.0 | ug/l | 25.0 | ND | 102 | 65-130 | 3.61 | 20 | |
| 1,1,1-Trichloroethane | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 80-120 | 0.436 | 20 | |
| 1,1,2-Trichloroethane | 25.8 | 2.0 | ug/l | 25.0 | ND | 103 | 55-145 | 1.54 | 20 | |
| Trichloroethene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 80-120 | 0.430 | 20 | |
| Trichlorofluoromethane | 23.2 | 5.0 | ug/l | 25.0 | ND | 92.8 | 70-145 | 2.18 | 20 | |
| 1,2,3-Trichloropropane | 24.7 | 10 | ug/l | 25.0 | ND | 98.8 | 20-160 | 2.40 | 20 | |
| 1,2,4-Trimethylbenzene | 18.4 | 2.0 | ug/l | 25.0 | ND | 73.6 | 70-135 | 21.8 | 20 | R4 |
| 1,3,5-Trimethylbenzene | 22.0 | 2.0 | ug/l | 25.0 | ND | 88.0 | 80-125 | 5.31 | 20 | |
| Vinyl acetate | 29.6 | 25 | ug/l | 25.0 | ND | 118 | 25-130 | 15.0 | 20 | |
| Vinyl chloride | 22.2 | 5.0 | ug/l | 25.0 | ND | 88.8 | 25-135 | 0.00 | 20 | |
| Xylenes, Total | 74.8 | 10 | ug/l | 75.0 | ND | 99.7 | 80-120 | 1.46 | 20 | |
| Surrogate: Dibromofluoromethane | 27.6 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: Toluene-d8 | 28.0 | | ug/l | 25.0 | | 112 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.5 | | ug/l | 25.0 | | 106 | 80-120 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

[none]

Sampled: 08/25/01

Received: 08/25/01

Report Number:

PKH0448

MULHODBLANKOC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------------|-----------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3004 Extracted: 08/2 | 9/01 | | | | | | | | | |
| Blank Analyzed: 08/30/01 (P1H3004 | -BLK1) | | | | | | | | | |
| Chromium VI | ND | 1.0 | mg/kg | | | | | | | |
| LCS Analyzed: 08/30/01 (P1H3004-I | 3S1) | | | | | | | | | |
| Chromium VI | 9.73 | 1.0 | mg/kg | 10.0 | | 97.3 | 85-115 | | | |
| LCS Dup Analyzed: 08/30/01 (P1H3 | 004-BSD1) | | | | | | | | | |
| Chromium VI | 9.28 | 1.0 | mg/kg | 10.0 | | 92.8 | 85-115 | 4.73 | 20 | |
| Matrix Spike Analyzed: 08/30/01 (P. | (H3004-MS1) | | | | Source: I | YKH0452- | 01 | | | |
| Chromium VI | 8.84 | 1.0 | mg/kg | 10.0 | ND | 88.4 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 08/30/0 | 1 (P1H3004-M | ISD1) | | | Source: I | PKH0452- | -01 | | | |
| Chromium VI | 9.98 | 1.0 | mg/kg | 10.0 | ND | 99.8 | 85-115 | 12.1 | 20 | |
| Batch: P1I0517 Extracted: 09/05 | <u>/01</u> | | | | | | | | | |
| Blank Analyzed: 09/08/01 (P1I0517- | BLK1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Chromium | 1.51 | 1.0 | mg/kg | | | | | | | B 1 |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | B4 |
| LCS Analyzed: 09/08/01 (P1I0517-B | S1) | | | | | | | | | |
| Arsenic | 96.6 | 5.0 | mg/kg | 100 | | 96.6 | 80-120 | | | |
| Chromium | 94.1 | 1.0 | mg/kg | 100 | | 94.1 | 80-120 | | | |
| Copper | 94.6 | 2.0 | mg/kg | 100 | \$ | 94.6 | 80-120 | | | |
| Nickel | 92.5 | 5.0 | mg/kg | 100 | | 92.5 | 80-120 | | | |
| Zinc | 94.8 | 5.0 | mg/kg | 100 | | 94.8 | 80-120 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

METHOD BLANK/QC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|-------------|-----------|-------|--------------------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0517 Extracted: 09/05/01 | <u>L</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/08/01 (P1I0517 | -BSD1) | | | | | | | | | |
| Arsenic | 95.6 | 5.0 | mg/kg | 100 | | 95.6 | 80-120 | 1.04 | 20 | |
| Chromium | 92.8 | 1.0 | mg/kg | 100 | | 92.8 | 80-120 | 1.39 | 20 | |
| Copper | 92.7 | 2.0 | mg/kg | 100 | | 92.7 | 80-120 | 2.03 | 20 | |
| Nickel | 91.6 | 5.0 | mg/kg | 100 | | 91.6 | 80-120 | 0.978 | 20 | |
| Zinc | 93.0 | 5.0 | mg/kg | 100 | | 93.0 | 80-120 | 1.92 | 20 | |
| Matrix Spike Analyzed: 09/08/01 (P1I0 | 517-MS1) | | | | Source: F | PKH0452- | 01 | | | |
| Arsenic | 90.9 | 5.0 | mg/kg | 100 | ND | 89.8 | 75-125 | | | |
| Chromium | 108 | 1.0 | mg/kg | 100 | 19 | 89.0 | 75-125 | | | |
| Copper | 97.7 | 2.0 | mg/kg | 100 | 7.3 | 90.4 | 75-125 | | | |
| Nickel | 97.0 | 5.0 | mg/kg | 100 | 12 | 85.0 | 75-125 | | | |
| Zinc | 115 | 5.0 | mg/kg | 100 | 30 | 85.0 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/08/01 | (P1I0517-MS | SD1) | | Source: PKH0452-01 | | | | | | |
| Arsenic | 93.3 | 5.0 | mg/kg | 100 | ND | 92.2 | 75-125 | 2.61 | 20 | • |
| Chromium | 111 | 1.0 | mg/kg | 100 | 19 | 92.0 | 75-125 | 2.74 | 20 | |
| Copper | 101 | 2.0 | mg/kg | 100 | 7.3 | 93.7 | 75-125 | 3.32 | 20 | |
| Nickel | 100 | 5.0 | mg/kg | 100 | 12 | 88.0 | 75-125 | 3.05 | 20 | |
| Zinc | 119 | 5.0 | mg/kg | 100 | 30 | 89.0 | 75-125 | 3.42 | 20 | |
| Batch: P1J0103 Extracted: 10/01/0 | <u>1</u> | | | | | | | | | |
| Blank Analyzed: 10/02/01 (P1J0103-Bl | LK1) | | | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 10/02/01 (P1J0103-BS) | 0 | | | | | | | | | |
| Zinc | 86.2 | 5.0 | mg/kg | 100 | | 86.2 | 80-120 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

MPHIOD BLANK OC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------------|-----------|-------|--------------------|--------------------|------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1J0103 Extracted: 10/01/02 | <u>L</u> | | | | | | | | | |
| Matrix Spike Analyzed: 10/02/01 (P1J0 | 103-MS1) | | | Source: PKI0288-19 | | | | | | |
| Zine | 142 | 5.0 | mg/kg | 100 | 29 | 113 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 10/02/01 (| 1 (P1J0103-MSD1) | | | | Source: PKI0288-19 | | | | | |
| Zinc | 117 | 5.0 | mg/kg | 100 | 29 | 88.0 | 75-125 | 19.3 | 20 | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

Reporting

[none]

%REC

Sampled: 08/25/01

PKH0448 Report Number:

Received: 08/25/01

RPD

Data

TOTAL RECOVERABLE METALS

Spike

Source

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Oualifiers |
|--|-------------|-------|-------|--------|-----------|----------|--------|------|-------|------------|
| Times to | Acsuit | Zimit | Omto | Level | Result | 70ICLC | Limits | MD | Limit | Quantiters |
| Batch: P1H2706 Extracted: 08/25/9 | <u>01</u> | | | | | | | | | |
| Blank Analyzed: 08/25/01 (P1H2706-B | LK1) | | | | | | | | | |
| Chromium VI | ND | 0.025 | mg/l | | | | | | | |
| LCS Analyzed: 08/25/01 (P1H2706-BS | 1) | | | | | | | | | |
| Chromium VI | 0.0999 | 0.050 | mg/l | 0.100 | | 99.9 | 85-115 | | | |
| Matrix Spike Analyzed: 08/25/01 (P1H | (2706-MS1) | | | | Source: P | PKH0448- | 08 | | | |
| Chromium VI | 0.0500 | 0.025 | mg/l | 0.0500 | ND | 100 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 08/25/01 | (P1H2706-MS | SD1) | | | Source: P | 'KH0448- | 08 | | | |
| Chromium VI | 0.0500 | 0.025 | mg/l | 0.0500 | ND | 100 | 85-115 | 0.00 | 20 | |
| Batch: P1H2827 Extracted: 08/28/ | <u>01</u> | | | | | | | | | |
| Blank Analyzed: 08/29/01 (P1H2827-B | LK1) | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| LCS Analyzed: 08/29/01 (P1H2827-BS | 1) | | | | | | | | | |
| Arsenic | 0.961 | 0.050 | mg/l | 1.00 | | 96.1 | 85-115 | | | |
| Chromium | 0.970 | 0.010 | mg/l | 1.00 | | 97.0 | 85-115 | | | |
| Copper | 0.993 | 0.020 | mg/l | 1.00 | | 99.3 | 85-115 | | | |
| Nickel | 0.960 | 0.050 | mg/l | 1.00 | | 96.0 | 85-115 | | | |
| Zinc | 0.969 | 0.050 | mg/l | 1.00 | | 96.9 | 85-115 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

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Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

MBIHOD BLANKQÇE DATA

TOTAL RECOVERABLE METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|-----------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2827 Extracted: 08/28/0 | <u>1</u> | | | | | | | | | |
| LCS Dup Analyzed: 08/30/01 (P1H282 | 7-BSD1) | | | | | | | | | |
| Arsenic | 1.05 | 0.050 | mg/l | 1.00 | | 105 | 85-115 | 8.85 | 20 | |
| Chromium | 1.03 | 0.010 | mg/l | 1.00 | | 103 | 85-115 | 6.00 | 20 | |
| Copper | 1.10 | 0.020 | mg/l | 1.00 | | 110 | 85-115 | 10.2 | 20 | |
| Nickel | 1.02 | 0.050 | mg/l | 1.00 | | 102 | 85-115 | 6.06 | 20 | |
| Zine | 1.04 | 0.050 | mg/l | 1.00 | | 104 | 85-115 | 7.07 | 20 | |
| Matrix Spike Analyzed: 08/29/01 (P1H | 2827-MS1) | | | | Source: P | KH0446- | | ,,,,, | | |
| Arsenic | 0.988 | 0.050 | mg/l | 1.00 | ND | 98.8 | 70-130 | | | |
| Chromium | 0.971 | 0.010 | mg/l | 1.00 | ND | 97.1 | 70-130 | | | |
| Copper | 1.00 | 0.020 | mg/l | 1.00 | ND | 100 | 70-130 | | | |
| Nickel | 0.960 | 0.050 | mg/l | 1.00 | ND | 96.0 | 70-130 | | | |
| Zinc | 0.974 | 0.050 | mg/l | 1.00 | ND | 96.0 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 08/29/01 (| P1H2827-M | SD1) | | | Source: P | KH0446- | 01 | | | |
| Arsenic | 0.948 | 0.050 | mg/l | 1.00 | ND | 94.8 | 70-130 | 4.13 | 20 | |
| Chromium | 0.952 | 0.010 | mg/l | 1.00 | ND | 95.2 | 70-130 | 1.98 | 20 | |
| Copper | 0.986 | 0.020 | mg/l | 1.00 | ND | 98.6 | 70-130 | 1.41 | 20 | |
| Nickel | 0.942 | 0.050 | mg/l | 1.00 | ND | 94.2 | 70-130 | 1.89 | 20 | |
| Zinc | 0.952 | 0.050 | mg/l | 1.00 | ND | 93.8 | 70-130 | 2.28 | 20 | |



%REC

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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: [none]

Sampled: 08/25/01 Received: 08/25/01

RPD

Data

Report Number:

Reporting

PKH0448

NETHOD BLANK/QC DATA

INORGANICS

Snike

Source

| | | Keporung | | Spike | Source | | 70KLC | | KPD | Data |
|-------------------------------------|--------------|----------|-------|-------|-----------|---------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P110513 Extracted: 09/05/ | <u>'01</u> | | | | | | | | | |
| Blank Analyzed: 09/05/01 (P1I0513-F | BLK1) | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 09/05/01 (P1 | I0513-MS1) | | | | Source: I | PKH0448 | -03 | | | |
| Total Cyanide | 2.61 | 0.50 | mg/kg | 2.50 | ND | 104 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/05/01 | (P1I0513-M | SD1) | | | Source: I | PKH0448 | -03 | | | |
| Total Cyanide | 2.24 | 0.50 | mg/kg | 2.50 | ND | 89.6 | 70-130 | 15.3 | 20 | |
| Reference Analyzed: 09/05/01 (P1105 | 13-SRM1) | | | | | | | | | |
| Total Cyanide | 116 | 20 | mg/kg | 201 | | 57.7 | 40-160 | | | |
| Batch: P110611 Extracted: 09/06/ | <u>′01</u> | | | | | | | | | |
| Blank Analyzed: 09/06/01 (P1I0611-I | BLK1) | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 09/06/01 (P1 | 10611-MS1) | | | | Source: 1 | PKH0448 | -05 | | | |
| Total Cyanide | 1.79 | 0.50 | mg/kg | 2.50 | ND | 71.6 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/06/01 | l (P1I0611-M | SD1) | | | Source: 1 | PKH0448 | -05 | | | |
| Total Cyanide | 1.31 | 0.50 | mg/kg | 2.50 | ND | 52.4 | 70-130 | 31.0 | 20 | M2,Q11 |
| Reference Analyzed: 09/06/01 (P1I06 | 511-SRM1) | | | | | | | | | |
| Total Cyanide | 109 | 20 | mg/kg | 201 | | 54.2 | 40-160 | | | |
| Batch: P110619 Extracted: 09/06/ | <u>/01</u> | | | | | | | | | |
| Blank Analyzed: 09/06/01 (P1I0619-1 | BLK1) | | | | | | | | | |
| Total Cyanide | ND | 0.020 | mg/l | | | | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

[none]

Sampled: 08/25/01

Report Number:

PKH0448

Received: 08/25/01

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC | RPD | RPD Limit | Data Oualifiers |
|---------------------------------------|-------------|--------------------|-------|----------------|------------------|---------|--------|------|--------------|--------------------|
| Batch: P1I0619 Extracted: 09/06/01 | 1 | | | | | | | | | • |
| LCS Analyzed: 09/06/01 (P1I0619-BS1 | _) | | | | | | | | | |
| Total Cyanide | 0.112 | 0.020 | mg/l | 0.100 | | 112 | 90-110 | | | L3 |
| Matrix Spike Analyzed: 09/06/01 (P1I0 | 619-MS1) | | _ | | Source: P | KH0448- | 08 | | | |
| Total Cyanide | 0.106 | 0.020 | mg/l | 0.100 | ND | 106 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/06/01 (| (P1I0619-MS | D 1) | | | Source: P | KH0448- | 08 | | | |
| Total Cyanide | 0.114 | 0.020 | mg/l | 0.100 | ND | 114 | 70-130 | 7.27 | 20 | |
| | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: [no

Report Number:

[none]

Sampled: 08/25/01

PKH0448

Received: 08/25/01

Y (Bricklo) DSBLEATNEY (2011) AT LAC

DATA QUALIFIERS AND DEFINITIONS

- Target analyte detected in method blank at or above the method reporting limit.
- B4 Target analyte detected in blank at/above method acceptance criteria.
- L3 The associated blank spike recovery was above method acceptance limits. See case narrative.
- M1 Matrix spike recovery was high, the method control sample recovery was acceptable.
- M2 Matrix spike recovery was low, the method control sample recovery was acceptable.
- M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
- N1 See case narrative.
- N2 See corrective action report.
- Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.
- R4 MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.
- R6 LFB/LFBD RPD exceeded the method control limit. Recovery met acceptance criteria.
- V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not reported.
- **RPD** Relative Percent Difference

Del Mar Analytical

CHAIN OF CUSTODY FORM

7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 2520 E. Surset Rd., Suite 3, Las Vegas, NV 89120

1014 E. Cooley Dr., Suite A,

Special Instructions ö Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days. 72 hours 5 days normal (Check) (Check) P Q 1 t V D Turnaround Time: Sample Integrity: same day 24 hours 48 hours Analysis Required 0 X JOON 0928 Date /Time: Date /Time: Date /Time: X × 49 109 SW Received in Lab by 21.5-5-0310-0-11201 Preservatives Received by: Received by: Sampling 25.00 2090 0925 030 001) 010 1033 (100) Project/PO Number: Sampling S 2818 52/8 Date 12)8 \$219 2/2/8 5218 \$218 * (P) X Phone Number: Fax Number: **#**0# Sont. 3 M Chare 8185/81 Container Sleek Steeve Date /Time: Date /Time: Slappe Chase Date /Time: Sleeve VAK Y Steeve West re Sample Matrix Jim Clarke をある WITH 100 1.83 13 S 100 £ 30 0 5-40 O Description 0 5 Client Name/Address: Ś Rinshle-3 Ś Project Manager: Relinguished By: Relinquished By: Relinquished By: Min shie アカフ -28 -297 28 82. 1831 Sampler: 187

A CONTRACTOR OF THE SECOND OF



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/26/01 Received: 08/27/01

Issued: 10/11/01

Report Number:

PKH0452

LABORATORY NUMBER

PKH0452-01 PKH0452-01RE8 PKH0452-02

SAMPLE DESCRIPTION

LB2-S-60 LB2-S-60 Dumpster 4414 **SAMPLE MATRIX**

> Soil Soil

Soil

SAMPLE RECEIPT:

Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES:

Holding times were met.

PRESERVATION:

Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS:

No significant observations were made.

SUBCONTRACTED:

No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA:

All analyses met method criteria.

EXPLANATION OF DATA

QUALIFIERS:

The N1 flag on ICP Chromium indicates that the analyte was detected in the associated Method Blank. Analyte concentration in the sample is greater than 10X the concentration found in the Method Blank.

MAR ANAL**A**TICAL , PHOENIX (AZ0426)

Project Manager

PKH0452 Page 1 of 19



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: 70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Attention: Jim Clarke

Report Number: PKH0452

Received: 08/27/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|-----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0452-02 (Dumps | ter 4414 - Soil |) | | ' B | | | | |
| Acetone | EPA 8260B | P1H2801 | 1000 | ND | 1 | 8/28/01 | 9/7/01 | |
| Benzene | EPA 8260B | P1H2801 | 50 | ND | î | 8/28/01 | 9/7/01 | |
| Bromobenzene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| Bromochloromethane | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| Bromodichloromethane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Bromoform | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| Bromomethane | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1H2801 | 500 | ND | 1 | 8/28/01 | 9/7/01 | |
| n-Butylbenzene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| sec-Butylbenzene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| tert-Butylbenzene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| Carbon Disulfide | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| Carbon tetrachloride | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| Chlorobenzene | EPA 8260B | P1H2801 | 50 | ND | 1 | 8/28/01 | 9/7/01 | |
| Chloroethane | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| Chloroform | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Chloromethane | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| 2-Chlorotoluene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| 4-Chlorotoluene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| Dibromochloromethane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Dibromomethane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1H2801 | 50 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Ethylbenzene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Hexachlorobutadiene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| 2-Hexanone | EPA 8260B | P1H2801 | 500 | ND | 1 | 8/28/01 | 9/7/01 | |
| Iodomethane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Isopropylbenzene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| p-Isopropyltoluene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| | | | | | | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Report Number:

PKH0452

Received: 08/27/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------------|---------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| | | | ug/kg | ug/kg | | | • | |
| Sample ID: PKH0452-02 (Dumps | ter 4414 - Soil |) | 0 0 | | | | | |
| Methylene chloride | EPA 8260B | P1H2801 | 500 | ND | 1 | 8/28/01 | 9/7/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1H2801 | 500 | ND | 1 | 8/28/01 | 9/7/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| Naphthalene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| n-Propylbenzene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Styrene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Tetrachloroethene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Toluene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Trichloroethene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Trichlorofluoromethane | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1H2801 | 500 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1H2801 | 100 | ND | 1 | 8/28/01 | 9/7/01 | |
| Vinyl acetate | EPA 8260B | P1H2801 | 1200 | ND | 1 | 8/28/01 | 9/7/01 | |
| Vinyl chloride | EPA 8260B | P1H2801 | 250 | ND | 1 | 8/28/01 | 9/7/01 | |
| Xylenes, Total | EPA 8260B | P1H2801 | 150 | ND | 1 | 8/28/01 | 9/7/01 | |
| Surrogate: Dibromofluoromethane (70-125% | 6) | | | 90.4 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 91.2 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-130% | 5) | | | 86.4 % | | | | |

DEL MAR ANALYTICAL, PHOENIX (AZ0426



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Received: 08/27/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0452

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|-------------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0452-01 (LB2- | -S-60 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P110517 | 5.0 | ND | 1 | 9/5/01 | 9/8/01 | |
| Chromium | EPA 6010B | P110517 | 1.0 | 19 | 1 | 9/5/01 | 9/8/01 | NI |
| Chromium VI | EPA 7196A | P1H3004 | 1.0 | ND | 1 | 8/29/01 | 8/30/01 | |
| Copper | EPA 6010B | P1I0517 | 2.0 | 7.3 | 1 | 9/5/01 | 9/9/01 | |
| Nickel | EPA 6010B | P110517 | 5.0 | 12 | 1 | 9/5/01 | 9/8/01 | |
| Sample ID: PKH0452-01RE8 (| LB2-S-60 - Soil) | | | | | | 2. 2. 2. | |
| Zinc | EPA 6010B | P1J0103 | 5.0 | 23 | 1 | 10/1/01 | 10/2/01 | |
| Sample ID: PKH0452-02 (Dum | pster 4414 - Soil |) | | | | 10,1,01 | 10,2,01 | |
| Arsenic | EPA 6010B | P110517 | 5.0 | ND | 1 | 9/5/01 | 9/8/01 | |
| Barium | EPA 6010B | P110517 | 1.0 | 63 | 1 | 9/5/01 | 9/8/01 | |
| Cadmium | EPA 6010B | P110517 | 0.50 | ND | 1 | 9/5/01 | 9/8/01 | |
| Chromium | EPA 6010B | P110517 | 1.0 | 19 | 1 | 9/5/01 | 9/8/01 | NI |
| Lead | EPA 6010B | P110517 | 5.0 | ND | · 1 | 9/5/01 | 9/8/01 | • • • |
| Mercury | EPA 7471A | P110523 | 0.020 | 0.76 | 1 | 9/5/01 | 9/5/01 | |
| Selenium | EPA 6010B | P110517 | 5.0 | ND | 1 | 9/5/01 | 9/8/01 | |
| Silver | EPA 6010B | P110517 | 0.50 | ND | 1 | 9/5/01 | 9/8/01 | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0452

Received: 08/27/01

INORGANICS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--------------------------------|------------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0452-01 (LB2-S-6 | 60 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P110611 | 0.50 P/NP | ND P/NP | 1 | 9/6/01 | 9/6/01 | |
| Sample ID: PKH0452-02 (Dumpst | ter 4414 - Soil) | | | | | | | |
| Paint Filter Liquids Test | EPA 9095A | P1I0521 | NA mg/kg | Present mg/kg | 1 | 9/5/01 | 9/5/01 | |
| Sample ID: PKH0452-02 (Dumpst | ter 4414 - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P110611 | 0.50 | ND | 1 | 9/6/01 | 9/6/01 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Received: 08/27/01

Report Number:

PKH0452

ŞILLERDÜLE EXNECÇE DADA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2801 Extracted: 08/28/ | <u>′01</u> | | | | | | | | | |
| Blank Analyzed: 08/29/01 (P1H2801-I | BLK1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | | | | | | | |
| Benzene | ND | 50 | ug/kg | | | | | | | |
| Bromobenzene | ND | 250 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 250 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 100 | ug/kg | | | | | | | |
| Bromoform | ND | 250 | ug/kg | | | | | | | |
| Bromomethane | ND | 250 | ug/kg | | | | | | | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| Carbon Disulfide | ND | 250 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 250 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 50 | ug/kg | | | | | | | |
| Chloroethane | ND | 250 | ug/kg | | | | | | | |
| Chloroform | ND | 100 | ug/kg | | | | | | | |
| Chloromethane | ND | 250 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 100 | ug/kg | | | | | | | |
| Dibromomethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,4-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Dichlorodifluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 50 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 250 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND · | 100 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager

PKH0452 Page 6 of 19



%REC

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0-0150-2-2.10 South Mesa

Report Number: PKH0452

Sampled: 08/25/01-08/26/01

Received: 08/27/01

RPD

Data

METHOD BLANK/QC DATA

Spike

Source

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Reporting

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|---------|-----------|-------|-------|--------|------|---------------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2801 Extracted: 08/2 | 8/01 | | | | | | | | | |
| Blank Analyzed: 08/29/01 (P1H280) | l-BLK1) | | | | | | | | | |
| 1,1-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 250 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 500 | ug/kg | | | | | | | |
| lodomethane | ND | 100 | ug/kg | | | | | | | |
| lsopropylbenzene | ND | . 100 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 100 | ug/kg | | | | | | | |
| Methylene chloride | ND | 500 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 500 | ug/kg | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | | | • | |
| Naphthalene | ND | 250 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 100 | ug/kg | | | | | | | |
| Styrene | ND | 100 | ug/kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 100 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 100 | ug/kg | | | | | | | |
| Toluene | ND | 100 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| Trichloroethene | ND | 100 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Vinyl acetate | ND | 1200 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 250 | ug/kg | | | | | | | |
| Xylenes, Total | ND | 150 | ug/kg | | | | | | | |
| Surrogate: Dibromofluoromethane | 1240 | | ug/kg | 1250 | | 99.2 | <i>70-125</i> | | | |
| Surrogate: Toluene-d8 | 1230 | | ug/kg | 1250 | | 98.4 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1250 | | ug/kg | 1250 | | 100 | 70-130 | | | |
| | | | | | | | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Received: 08/27/01

Report Number:

PKH0452

-METHOD BLANKOC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2801 Extracted: 08/28/ | 01 | | | | | | | | | • |
| LCS Analyzed: 08/30/01 (P1H2801-BS | 1) | | | | | | | | | |
| Acetone | 1050 | 1000 | ug/kg | 1000 | | 105 | 5-200 | | | |
| Benzene | 836 | 50 | ug/kg | 1000 | | 83.6 | 65-130 | | | |
| Bromobenzene | 933 | 250 | ug/kg | 1000 | | 93.3 | 60-135 | | | |
| Bromochloromethane | 886 | 250 | ug/kg | 1000 | | 88.6 | 60-135 | | | |
| Bromodichloromethane | 800 | 100 | ug/kg | 1000 | | 80.0 | 30-135 | | | |
| Bromoform | 838 | 250 | ug/kg | 1000 | | 83.8 | 60-140 | | | |
| Bromomethane | ND | 250 | ug/kg | 1000 | | 22.8 | 10-200 | | | |
| 2-Butanone (MEK) | 1050 | 500 | ug/kg | 1000 | | 105 | 10-160 | | | |
| n-Butylbenzene | 894 | 250 | ug/kg | 1000 | | 89.4 | 65-125 | | | |
| sec-Butylbenzene | 929 | 250 | ug/kg | 1000 | | 92.9 | 70-135 | | | |
| tert-Butylbenzene | 964 | 250 | ug/kg | 1000 | | 96.4 | 70-130 | | | |
| Carbon Disulfide | 734 | 250 | ug/kg | 1000 | | 73.4 | 20-120 | | | • |
| Carbon tetrachloride | 900 | 250 | ug/kg | 1000 | | 90.0 | 70-140 | | | |
| Chlorobenzene | 940 | 50 | ug/kg | 1000 | | 94.0 | 75-125 | | | |
| Chloroethane | 272 | 250 | ug/kg | 1000 | | 27.2 | 10-200 | | | |
| Chloroform | 895 | 100 | ug/kg | 1000 | | 89.5 | 35-135 | | | |
| Chloromethane | 725 | 250 | ug/kg | 1000 | | 72.5 | 10-200 | | | |
| 2-Chlorotoluene | 944 | 250 | ug/kg | 1000 | | 94.4 | 70-135 | | | |
| 4-Chlorotoluene | 931 | 250 | ug/kg | 1000 | | 93.1 | 75-135 | | | |
| Dibromochloromethane | 870 | 100 | ug/kg | 1000 | | 87.0 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 812 | 250 | ug/kg | 1000 | | 81.2 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 957 | 100 | ug/kg | 1000 | | 95.7 | 70-130 | | | |
| Dibromomethane | 804 | 100 | ug/kg | 1000 | | 80.4 | 65-130 | | | |
| 1,2-Dichlorobenzene | 933 | 100 | ug/kg | 1000 | | 93.3 | 70-125 | | | |
| 1,3-Dichlorobenzene | 929 | 100 | ug/kg | 1000 | | 92.9 | 70-125 | | | |
| 1,4-Dichlorobenzene | 938 | 100 | ug/kg | 1000 | | 93.8 | 70-135 | | | |
| Dichlorodifluoromethane | 551 | 250 | ug/kg | 1000 | | 55.1 | 10-185 | | | |
| 1,1-Dichloroethane | 925 | 100 | ug/kg | 1000 | | 92.5 | 60-140 | | | |
| 1,2-Dichloroethane | 808 | 50 | ug/kg | 1000 | | 80.8 | 55-135 | | | |
| 1,1-Dichloroethene | 836 | 250 | ug/kg | 1000 | | 83.6 | 55-145 | | | |
| cis-1,2-Dichloroethene | 911 | 100 | ug/kg | 1000 | | 91.1 | 60-125 | | | |
| trans-1,2-Dichloroethene | 926 | 100 | ug/kg | 1000 | | 92.6 | 70-145 | | | |
| 1,2-Dichloropropane | 755 | 100 | ug/kg | 1000 | | 75.5 | 65-130 | | | |
| 1,3-Dichloropropane | 925 | 100 | ug/kg | 1000 | | 92.5 | 65-130 | | | |
| 2,2-Dichloropropane | 955 | 100 | ug/kg | 1000 | | 95.5 | 60-135 | | | |
| 1,1-Dichloropropene | 890 | 100 | ug/kg | 1000 | | 89.0 | 65-130 | | | |
| | | | | | | | 00 100 | | | |

Melissa Evans Project Manager



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01 Received: 08/27/01

Report Number:

PKH0452

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-------------|-----------|-------|-------|--------|--------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2801 Extracted: 08/28/ | 01 | | | | | | | | | |
| LCS Analyzed: 08/30/01 (P1H2801-BS | 1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 785 | 100 | ug/kg | 1000 | | 78.5 | 60-125 | | | |
| trans-1,3-Dichloropropene | 840 | 100 | ug/kg | 1000 | | 84.0 | 50-130 | | | |
| Ethylbenzene | 919 | 100 | ug/kg | 1000 | | 91.9 | 70-125 | | | |
| Hexachlorobutadiene | 850 | 250 | ug/kg | 1000 | | 85.0 | 60-125 | | | |
| 2-Hexanone | 964 | 500 | ug/kg | 1000 | | 96.4 | 25-185 | | | |
| Iodomethane | 697 | 100 | ug/kg | 1000 | | 69.7 | 30-155 | | | |
| Isopropylbenzene | 935 | 100 | ug/kg | 1000 | | 93.5 | 70-135 | | | |
| p-Isopropyltoluene | 907 | 100 | ug/kg | 1000 | | 90.7 | 65-130 | | | |
| Methylene chloride | 962 | 500 | ug/kg | 1000 | | 96.2 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 882 | 500 | ug/kg | 1000 | | 88.2 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 960 | 250 | ug/kg | 1000 | | 96.0 | 55-135 | | | |
| Naphthalene | 839 | 250 | ug/kg | 1000 | | 83.9 | 45-155 | | | |
| n-Propylbenzene | 922 | 100 | ug/kg | 1000 | | 92.2 | 75-135 | | | |
| Styrene | 898 | 100 | ug/kg | 1000 | | 89.8 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 942 | 250 | ug/kg | 1000 | | 94.2 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 915 | 100 | ug/kg | 1000 | | 91.5 | 60-140 | | | |
| Tetrachloroethene | 925 | 100 | ug/kg | 1000 | | 92.5 | 65-130 | | | |
| Toluene | 927 | 100 | ug/kg | 1000 | | 92.7 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 826 | 250 | ug/kg | 1000 | | 82.6 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 941 | 250 | ug/kg | 1000 | | 94.1 | 55-135 | | | |
| 1,1,1-Trichloroethane | 870 | 100 | ug/kg | 1000 | | 87.0 | 65-135 | | | |
| 1,1,2-Trichloroethane | 910 | 100 | ug/kg | 1000 | | 91.0 | 65-130 | | | |
| Trichloroethene | 886 | 100 | ug/kg | 1000 | | 88.6 | 70-130 | | | |
| Trichlorofluoromethane | 56 7 | 250 | ug/kg | 1000 | | 56.7 | 10-200 | | | |
| 1,2,3-Trichloropropane | 951 | 500 | ug/kg | 1000 | | 95.1 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 894 | 100 | ug/kg | 1000 | | 89.4 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 891 | 100 | ug/kg | 1000 | | 89.1 | 70-130 | | | |
| Vinyl acetate | 1270 | 1200 | ug/kg | 1000 | | 127 | 25-130 | | | |
| Vinyl chloride | 773 | 250 | ug/kg | 1000 | | . 77.3 | 10-200 | | | |
| Xylenes, Total | 2740 | 150 | ug/kg | 3000 | | 91.3 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 1140 | | ug/kg | 1250 | | 91.2 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1180 | | ug/kg | 1250 | | 94.4 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1200 | | ug/kg | 1250 | | 96.0 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0-0150-2-2.10 South Mesa

Report Number: PKH0452

Sampled: 08/25/01-08/26/01

Received: 08/27/01

METHOD BLANKOC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|----------------------------------|-----------|-----------|-------|-------|--------|------|--------|--------------|----------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2801 Extracted: 08/2 | 8/01 | | | | | | | | | |
| LCS Dup Analyzed: 08/30/01 (P1H2 | 801-BSD1) | | | | | | | | | |
| Acetone | 1240 | 1000 | ug/kg | 1000 | | 124 | 5-200 | 16.6 | 25 | |
| Benzene | 836 | 50 | ug/kg | 1000 | | 83.6 | 65-130 | 16.6 0.00 | 35 35 | |
| Bromobenzene | 923 | 250 | ug/kg | 1000 | | 92.3 | 60-135 | | 35 | |
| Bromochloromethane | 943 | 250 | ug/kg | 1000 | | 94.3 | 60-135 | 1.08 6.23 | 35 35 | |
| Bromodichloromethane | 787 | 100 | ug/kg | 1000 | | 78.7 | 30-135 | 1.64 | 35 35 | |
| Bromoform | 866 | 250 | ug/kg | 1000 | | 86.6 | 60-140 | 3.29 | 35 35 | |
| Bromomethane | ND | 250 | ug/kg | 1000 | | 21.5 | 10-200 | 5.87 | 35 35 | |
| 2-Butanone (MEK) | 1120 | 500 | ug/kg | 1000 | | 112 | 10-260 | 6.45 | 35 35 | |
| n-Butylbenzene | 904 | 250 | ug/kg | 1000 | | 90.4 | 65-125 | 1.11 | 35 35 | |
| sec-Butylbenzene | 924 | 250 | ug/kg | 1000 | | 92.4 | 70-135 | 0.540 | 35 35 | |
| tert-Butylbenzene | 946 | 250 | ug/kg | 1000 | | 94.6 | 70-130 | 1.88 | 35 | |
| Carbon Disulfide | 723 | 250 | ug/kg | 1000 | | 72.3 | 20-120 | 1.51 | 35 | |
| Carbon tetrachloride | 913 | 250 | ug/kg | 1000 | | 91.3 | 70-140 | 1.43 | 35 | |
| Chlorobenzene | 936 | 50 | ug/kg | 1000 | | 93.6 | 75-125 | 0.426 | 35 | |
| Chloroethane | ND | 250 | ug/kg | 1000 | | 21.3 | 10-200 | 24.3 | 35 | |
| Chloroform | 904 | 100 | ug/kg | 1000 | | 90.4 | 35-135 | 1.00 | 35 | |
| Chloromethane | 731 | 250 | ug/kg | 1000 | | 73.1 | 10-200 | 0.824 | 35 | |
| 2-Chlorotoluene | 926 | 250 | ug/kg | 1000 | | 92.6 | 70-135 | 1.93 | 35 | |
| 4-Chlorotoluene | 915 | 250 | ug/kg | 1000 | | 91.5 | 75-135 | 1.73 | 35 | |
| Dibromochloromethane | 869 | 100 | ug/kg | 1000 | | 86.9 | 35-135 | 0.115 | 35 | |
| 1,2-Dibromo-3-chloropropane | 835 | 250 | ug/kg | 1000 | | 83.5 | 50-155 | 2.79 | 35 | |
| 1,2-Dibromoethane (EDB) | 963 | 100 | ug/kg | 1000 | | 96.3 | 70-130 | 0.625 | 35 | |
| Dibromomethane | 825 | 100 | ug/kg | 1000 | | 82.5 | 65-130 | 2.58 | 35 | |
| 1,2-Dichlorobenzene | 923 | 100 | ug/kg | 1000 | | 92.3 | 70-125 | 1.08 | 35 | |
| 1,3-Dichlorobenzene | 920 | 100 | ug/kg | 1000 | | 92.0 | 70-125 | 0.973 | 35 | |
| 1,4-Dichlorobenzene | 945 | 100 | ug/kg | 1000 | | 94.5 | 70-135 | 0.743 | 35 | |
| Dichlorodifluoromethane | 520 | 250 | ug/kg | 1000 | | 52.0 | 10-185 | 5.79 | 35 | |
| 1,1-Dichloroethane | 897 | 100 | ug/kg | 1000 | | 89.7 | 60-140 | 3.07 | 35 | |
| 1,2-Dichloroethane | 852 | 50 | ug/kg | 1000 | | 85.2 | 55-135 | 5.30 | 35 | |
| 1,1-Dichloroethene | 813 | 250 | ug/kg | 1000 | | 81.3 | 55-145 | 2.79 | 35 | |
| cis-1,2-Dichloroethene | 910 | 100 | ug/kg | 1000 | | 91.0 | 60-125 | 0.110 | 35 | |
| trans-1,2-Dichloroethene | 909 | 100 | ug/kg | 1000 | | 90.9 | 70-145 | 1.85 | 35 | |
| 1,2-Dichloropropane | 820 | 100 | ug/kg | 1000 | | 82.0 | 65-130 | 8.25 | 35 | |
| 1,3-Dichloropropane | 944 | 100 | ug/kg | 1000 | | 94.4 | 65-130 | 2.03 | 35 | |
| 2,2-Dichloropropane | 928 | 100 | ug/kg | 1000 | | 92.8 | 60-135 | 2.87 | 35 | |
| 1,1-Dichloropropene | 903 | 100 | ug/kg | 1000 | | 90.3 | 65-130 | 1.45 | 35 | |
| | | | _ | | | | | | 20 | |

Melissa Evans Project Manager



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Report Number:

PKH0452

Received: 08/27/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-------------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2801 Extracted: 08/28/0 | 01 | | | | | | | | | • |
| LCS Dup Analyzed: 08/30/01 (P1H280 | 1-BSD1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 786 | 100 | ug/kg | 1000 | | 78.6 | 60-125 | 0.127 | 35 | |
| trans-1,3-Dichloropropene | 828 | 100 | ug/kg | 1000 | | 82.8 | 50-130 | 1.44 | 35 | |
| Ethylbenzene | 907 | 100 | ug/kg | 1000 | | 90.7 | 70-125 | 1.31 | 35 | |
| Hexachlorobutadiene | 899 | 250 | ug/kg | 1000 | | 89.9 | 60-125 | 5.60 | 35 | |
| 2-Hexanone | 1020 | 500 | ug/kg | 1000 | | 102 | 25-185 | 5.65 | 35 | |
| lodomethane | 655 | 100 | ug/kg | 1000 | | 65.5 | 30-155 | 6.21 | 35 | |
| lsopropylbenzene | 916 | 100 | ug/kg | 1000 | | 91.6 | 70-135 | 2.05 | 35 | |
| p-Isopropyltoluene | 906 | 100 | ug/kg | 1000 | | 90.6 | 65-130 | 0.110 | 35 | |
| Methylene chloride | 925 | 500 | ug/kg | 1000 | | 92.5 | 60-140 | 3.92 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 937 | 500 | ug/kg | 1000 | | 93.7 | 10-175 | 6.05 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 962 | 250 | ug/kg | 1000 | | 96.2 | 55-135 | 0.208 | 35 | |
| Naphthalene | 886 | 250 | ug/kg | 1000 | | 88.6 | 45-155 | 5.45 | 35 | • |
| n-Propylbenzene | 900 | 100 | ug/kg | 1000 | | 90.0 | 75-135 | 2.41 | 35 | |
| Styrene | 889 | 100 | ug/kg | 1000 | | 88.9 | 70-130 | 1.01 | 35 | |
| 1,1,1,2-Tetrachloroethane | 938 | 250 | ug/kg | 1000 | | 93.8 | 70-130 | 0.426 | 35 | |
| 1,1,2,2-Tetrachloroethane | 934 | 100 | ug/kg | 1000 | | 93.4 | 60-140 | 2.06 | 35 | |
| Tetrachloroethene | 933 | 100 | ug/kg | 1000 | | 93.3 | 65-130 | 0.861 | 35 | |
| Toluene | 924 | 100 | ug/kg | 1000 | | 92.4 | 70-125 | 0.324 | 35 | |
| 1,2,3-Trichlorobenzene | 843 | 250 | ug/kg | 1000 | | 84.3 | 60-135 | 2.04 | 35 | |
| 1,2,4-Trichlorobenzene | 937 | 250 | ug/kg | 1000 | | 93.7 | 55-135 | 0.426 | 35 | |
| 1,1,1-Trichloroethane | 851 | 100 | ug/kg | 1000 | | 85.1 | 65-135 | 2.21 | 35 | |
| 1,1,2-Trichloroethane | 937 | 100 | ug/kg | 1000 | | 93.7 | 65-130 | 2.92 | 35 | |
| Trichloroethene | 881 | 100 | ug/kg | 1000 | | 88.1 | 70-130 | 0.566 | 35 | |
| Trichlorofluoromethane | 377 | 250 | ug/kg | 1000 | | 37.7 | 10-200 | 40.3 | 35 | R4 |
| 1,2,3-Trichloropropane | 987 | 500 | ug/kg | 1000 | | 98.7 | 60-150 | 3.72 | 35 | |
| 1,2,4-Trimethylbenzene | 892 | 100 | ug/kg | 1000 | | 89.2 | 75-130 | 0.224 | 35 | |
| 1,3,5-Trimethylbenzene | 875 | 100 | ug/kg | 1000 | | 87.5 | 70-130 | 1.81 | 35 | |
| Vinyl acetate | 1270 | 1200 | ug/kg | 1000 | | 127 | 25-130 | 0.00 | 35 | |
| Vinyl chloride | 7 67 | 250 | ug/kg | 1000 | | 76.7 | 10-200 | 0.779 | 35 | |
| Xylenes, Total | 2740 | 150 | ug/kg | 3000 | | 91.3 | 70-130 | 0.00 | 35 | |
| Surrogate: Dibromofluoromethane | 1200 | | ug/kg | 1250 | | 96.0 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1230 | | ug/kg | 1250 | | 98.4 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1210 | | ug/kg | 1250 | | 96.8 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Received: 08/27/01

RPD

Data

Report Number:

Reporting

PKH0452

MELHOD BLANKQCDATA

Spike

Source

%REC

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
|--------------------------------------|------------|-------|-------|-------|-----------|---------|--------|-----|-------|------------|
| Batch: P1H2801 Extracted: 08/28 | <u>/01</u> | | | | | | ÷ | | | |
| Matrix Spike Analyzed: 08/29/01 (P11 | H2801-MS1) | | | | Source: F | KH0465- | 01 | | | |
| Acetone | 1070 | 1000 | ug/kg | 1000 | ND | 107 | 5-200 | | | |
| Benzene | 713 | - 50 | ug/kg | 1000 | ND | 71.3 | 65-130 | | | |
| Bromobenzene | 800 | 250 | ug/kg | 1000 | ND | 80.0 | 60-135 | | | |
| Bromochloromethane | 714 | 250 | ug/kg | 1000 | ND | 71.4 | 60-135 | | | |
| Bromodichloromethane | 669 | 100 | ug/kg | 1000 | ND | 66.9 | 30-135 | | | |
| Bromoform | 702 | 250 | ug/kg | 1000 | ND | 70.2 | 60-140 | | | |
| Bromomethane | 279 | 250 | ug/kg | 1000 | ND | 27.9 | 10-200 | | | |
| 2-Butanone (MEK) | 898 | 500 | ug/kg | 1000 | ND | 89.8 | 10-160 | | | |
| n-Butylbenzene | 773 | 250 | ug/kg | 1000 | ND | 77.3 | 65-125 | | | |
| sec-Butylbenzene | 807 | 250 | ug/kg | 1000 | ND | 80.7 | 70-135 | | | |
| tert-Butylbenzene | 824 | 250 | ug/kg | 1000 | ND | 82.4 | 70-130 | | | |
| Carbon Disulfide | 588 | 250 | ug/kg | 1000 | ND | 58.8 | 20-120 | | | |
| Carbon tetrachloride | 742 | 250 | ug/kg | 1000 | ND | 74.2 | 70-140 | | | |
| Chlorobenzene | 820 | 50 | ug/kg | 1000 | ND | 82.0 | 75-125 | | | |
| Chloroethane | ND | 250 | ug/kg | 1000 | ND | 23.4 | 10-200 | | | |
| Chloroform | 758 | 100 | ug/kg | 1000 | ND | 75.8 | 35-135 | | | |
| Chloromethane | 552 | 250 | ug/kg | 1000 | ND | 55.2 | 10-200 | | | |
| 2-Chlorotoluene | 818 | 250 | ug/kg | 1000 | ND | 81.8 | 70-135 | | | |
| 4-Chlorotoluene | 805 | 250 | ug/kg | 1000 | ND | 80.5 | 75-135 | | | |
| Dibromochloromethane | 739 | 100 | ug/kg | 1000 | ND | 73.9 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 681 | 250 | ug/kg | 1000 | ND | 68.1 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 849 | 100 | ug/kg | 1000 | ND | 84.9 | 70-130 | | | |
| Dibromomethane | 722 | 100 | ug/kg | 1000 | ND | 72.2 | 65-130 | | | |
| 1,2-Dichlorobenzene | 806 | 100 | ug/kg | 1000 | ND | 80.6 | 70-125 | | | |
| 1,3-Dichlorobenzene | 807 | 100 | ug/kg | 1000 | ND | 80.7 | 70-125 | | | |
| 1,4-Dichlorobenzene | 813 | 100 | ug/kg | 1000 | ND | 81.3 | 70-135 | | | |
| Dichlorodifluoromethane | 328 | 250 | ug/kg | 1000 | ND | 32.8 | 10-185 | | | |
| 1,1-Dichloroethane | 778 | 100 | ug/kg | 1000 | ND | 77.8 | 60-140 | | | |
| 1,2-Dichloroethane | 695 | 50 | ug/kg | 1000 | ND | 69.5 | 55-135 | | | |
| 1,1-Dichloroethene | 669 . | 250 | ug/kg | 1000 | ND | 66.9 | 55-145 | | | |
| cis-1,2-Dichloroethene | 786 | 100 | ug/kg | 1000 | ND | 78.6 | 60-125 | | | |
| trans-1,2-Dichloroethene | 779 | 100 | ug/kg | 1000 | ND | 77.9 | 70-145 | | | |
| 1,2-Dichloropropane | 708 | 100 | ug/kg | 1000 | ND | 70.8 | 65-130 | | | |
| 1,3-Dichloropropane | 822 | 100 | ug/kg | 1000 | ND | 82.2 | 65-130 | | | |
| 2,2-Dichloropropane | 753 | 100 | ug/kg | 1000 | ND | 75.3 | 60-135 | | | |
| 1,1-Dichloropropene | 743 | 100 | ug/kg | 1000 | ND | 74.3 | 65-130 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Report Number: PKH0452

Received: 08/27/01

MECHOD BLANKOC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|---------------|-----------|-------|-------|-----------|---------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H2801 Extracted: 08/ | <u>/28/01</u> | | | | | | | | | |
| Matrix Spike Analyzed: 08/29/01 (| P1H2801-MS1) | | | | Source: P | KH0465- | 01 | | | |
| cis-1,3-Dichloropropene | 664 | 100 | ug/kg | 1000 | ND | 66.4 | 60-125 | | | |
| trans-1,3-Dichloropropene | 708 | 100 | ug/kg | 1000 | ND | 70.8 | 50-130 | | | |
| Ethylbenzene | 796 | 100 | ug/kg | 1000 | ND | 79.6 | 70-125 | | | |
| Hexachlorobutadiene | 812 | 250 | ug/kg | 1000 | ND | 81.2 | 60-125 | | | |
| 2-Hexanone | 891 | 500 | ug/kg | 1000 | ND | 89.1 | 25-185 | | | |
| Iodomethane | 595 | 100 | ug/kg | 1000 | ND | 59.5 | 30-155 | | | |
| lsopropylbenzene | 799 | 100 | ug/kg | 1000 | ND | 79.9 | 70-135 | | | |
| p-Isopropyltoluene | 772 | 100 | ug/kg | 1000 | ND | 77.2 | 65-130 | | | |
| Methylene chloride | 737 | 500 | ug/kg | 1000 | ND | 73.7 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 793 | 500 | ug/kg | 1000 | ND | 79.3 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 822 | 250 | ug/kg | 1000 | ND | 82.2 | 55-135 | | | |
| Naphthalene | 803 | 250 | ug/kg | 1000 | ND | 80.3 | 45-155 | | | |
| n-Propylbenzene | 786 | 100 | ug/kg | 1000 | ND | 78.6 | 75-135 | | | |
| Styrene | 772 | 100 | ug/kg | 1000 | ND | 77.2 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 817 | 250 | ug/kg | 1000 | ND | 81.7 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 797 | 100 | ug/kg | 1000 | ND | 79.7 | 60-140 | | | |
| Tetrachloroethene | 815 | 100 | ug/kg | 1000 | ND | 81.5 | 65-130 | | | |
| Toluene | 770 | 100 | ug/kg | 1000 | ND | 77.0 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 760 | 250 | ug/kg | 1000 | ND | 76.0 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 825 | 250 | ug/kg | 1000 | ND | 82.5 | 55-135 | | | |
| 1,1,1-Trichloroethane | 688 | 100 | ug/kg | 1000 | ND | 68.8 | 65-135 | | | |
| 1,1,2-Trichloroethane | 807 | 100 | ug/kg | 1000 | ND | 80.7 | 65-130 | | | |
| Trichloroethene | 744 | 100 | ug/kg | 1000 | ND | 74.4 | 70-130 | | | |
| Trichlorofluoromethane | 398 | 250 | ug/kg | 1000 | ND | 39.8 | 10-200 | | | |
| 1,2,3-Trichloropropane | 841 | 500 | ug/kg | 1000 | ND | 84.1 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 777 | 100 | ug/kg | 1000 | ND | 77.7 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 774 | 100 | ug/kg | 1000 | ND | 77.4 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | 105 | 25-130 | | | |
| Vinyl chloride | 587 | 250 | ug/kg | 1000 | ND | 58.7 | 10-200 | | | |
| Xylenes, Total | 2400 | 150 | ug/kg | 3000 | ND | 80.0 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 942 | | ug/kg | 1250 | | 75.4 | 70-125 | | | |
| Surrogate: Toluene-d8 | 972 | | ug/kg | 1250 | | 77.8 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1020 | | ug/kg | 1250 | | 81.6 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

Report Number:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Received: 08/27/01

NI DE DE LO DE DE DESENTATO DE LA PARTICIO DE LA P

PKH0452

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD · | Data |
|---------------------------------------|-----------|-----------|-------|-------|-----------|---------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3004 Extracted: 08/29/0 | <u>1</u> | | | | | | 4 | | | |
| Blank Analyzed: 08/30/01 (P1H3004-BI | LK1) | | | | | | | | | |
| Chromium VI | ND | 1.0 | mg/kg | | | | | | | |
| LCS Analyzed: 08/30/01 (P1H3004-BS1 | .) . | | | | | | | | | |
| Chromium VI | 9.73 | 1.0 | mg/kg | 10.0 | | 97.3 | 85-115 | | | |
| LCS Dup Analyzed: 08/30/01 (P1H3004 | -BSD1) | | | | | | | | | |
| Chromium VI | 9.28 | 1.0 | mg/kg | 10.0 | | 92.8 | 85-115 | 4.73 | 20 | |
| Matrix Spike Analyzed: 08/30/01 (P1H3 | 3004-MS1) | | | | Source: P | KH0452- | 01 | | | |
| Chromium VI | 8.84 | 1.0 | mg/kg | 10.0 | ND | 88.4 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 08/30/01 (| P1H3004-M | SD1) | | | Source: P | KH0452- | 01 | | | |
| Chromium VI | 9.98 | 1.0 | mg/kg | 10.0 | ND | 99.8 | 85-115 | 12.1 | 20 | |
| Batch: P110517 Extracted: 09/05/01 | _ | | | | | | | | | |
| Blank Analyzed: 09/08/01 (P110517-BL | K1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Barium | ND | 1.0 | mg/kg | | | | | | | |
| Cadmium | ND | 0.50 | mg/kg | | | | | | | |
| Chromium | 1.51 | 1.0 | mg/kg | | | | | | | В1 |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Lead | ND | 5.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| Selenium | ND | 5.0 | mg/kg | | | | | | | |
| Silver | ND | 0.50 | mg/kg | | | | | | | |



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Law Engineering 4634 S. 36th Place

Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Received: 08/27/01

PKH0452

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|-----------|-----------|-------|-------|---------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0517 Extracted: 09/05/0 | <u>1</u> | | | | | | | | | |
| LCS Analyzed: 09/08/01 (P110517-BS1 |) | | | | | | | | | |
| Arsenic | 96.6 | 5.0 | mg/kg | 100 | | 96.6 | 80-120 | | | |
| Barium | 95.7 | 1.0 | mg/kg | 100 | | 95.7 | 80-120 | | | |
| Cadmium | 96.9 | 0.50 | mg/kg | 100 | | 96.9 | 80-120 | | | |
| Chromium | 94.1 | 1.0 | mg/kg | 100 | | 94.1 | 80-120 | | | |
| Copper | 94.6 | 2.0 | mg/kg | 100 | | 94.6 | 80-120 | | | |
| Lead | 92.5 | 5.0 | mg/kg | 100 | | 92.5 | 80-120 | | | |
| Nickel | 92.5 | 5.0 | mg/kg | 100 | | 92.5 | 80-120 | | | |
| Selenium | 97.9 | 5.0 | mg/kg | 100 | | 97.9 | 80-120 | | | |
| Silver | 101 | 0.50 | mg/kg | 100 | | 101 | 80-120 | | | |
| LCS Dup Analyzed: 09/08/01 (P110517 | 7-BSD1) | | | | | | | | | |
| Arsenic | 95.6 | 5.0 | mg/kg | 100 | | 95.6 | 80-120 | 1.04 | 20 | |
| Barium | 93.4 | 1.0 | mg/kg | 100 | | 93.4 | 80-120 | 2.43 | 20 | |
| Cadmium | 94.1 | 0.50 | mg/kg | 100 | | 94.1 | 80-120 | 2.93 | 20 | |
| Chromium | 92.8 | 1.0 | mg/kg | 100 | | 92.8 | 80-120 | 1.39 | 20 | |
| Copper | 92.7 | 2.0 | mg/kg | 100 | | 92.7 | 80-120 | 2.03 | 20 | |
| Lead | 92.3 | 5.0 | mg/kg | 100 | | 92.3 | 80-120 | 0.216 | 20 | |
| Nickel | 91.6 | 5.0 | mg/kg | 100 | | 91.6 | 80-120 | 0.978 | 20 | |
| Selenium | 96.1 | 5.0 | mg/kg | 100 | | 96.1 | 80-120 | 1.86 | 20 | |
| Silver | 99.3 | 0.50 | mg/kg | 100 | | 99.3 | 80-120 | 1.70 | 20 | |
| Matrix Spike Analyzed: 09/08/01 (P1I | 0517-MS1) | | | | Source: | PKH0452 | -01 | | | |
| Arsenic | 90.9 | 5.0 | mg/kg | 100 | ND | 89.8 | 75-125 | | | |
| Barium | 145 | 1.0 | mg/kg | 100 | 48 | 97.0 | 75-125 | | | |
| Cadmium | 87.6 | 0.50 | mg/kg | 100 | ND | 87.6 | 75-125 | | | |
| Chromium | 108 | 1.0 | mg/kg | 100 | 19 | 89.0 | 75-125 | | | |
| Copper | 97.7 | 2.0 | mg/kg | 100 | 7.3 | 90.4 | 75-125 | | | |
| Lead | 92.2 | 5.0 | mg/kg | 100 | ND | 88.1 | 75-125 | | | |
| Nickel | 97.0 | 5.0 | mg/kg | 100 | 12 | 85.0 | 75-125 | | | |
| Selenium | 91.4 | 5.0 | mg/kg | 100 | ND | 89.8 | 75-125 | | | |
| Silver | 96.8 | 0.50 | mg/kg | 100 | ND | 96.8 | 75-125 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Received: 08/27/01

Report Number:

PKH0452

METHOD BLANK/QC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|-------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0517 Extracted: 09/05/0 | <u>01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/08/01 | (P1I0517-M | SD1) | | | Source: F | KH0452- | 01 | | | |
| Arsenic | 93.3 | 5.0 | mg/kg | 100 | ND | 92.2 | 75-125 | 2.61 | 20 | |
| Barium | 148 | 1.0 | mg/kg | 100 | 48 | 100 | 75-125 | 2.05 | 20 | |
| Cadmium | 90.5 | 0.50 | mg/kg | 100 | ND | 90.5 | 75-125 | 3.26 | 20 | |
| Chromium | 111 | 1.0 | mg/kg | 100 | 19 | 92.0 | 75-125 | 2.74 | 20 | |
| Copper | 101 | 2.0 | mg/kg | 100 | 7.3 | 93.7 | 75-125 | 3.32 | 20 | |
| Lead | 95.4 | 5.0 | mg/kg | 100 | ND | 91.3 | 75-125 | 3.41 | 20 | |
| Nickel | 100 | 5.0 | mg/kg | 100 | 12 | 88.0 | 75-125 | 3.05 | 20 | |
| Selenium | 92.9 | 5.0 | mg/kg | 100 | ND | 91.3 | 75-125 | 1.63 | 20 | |
| Silver | 97.5 | 0.50 | mg/kg | 100 | ND | 97.5 | 75-125 | 0.721 | 20 | |
| Batch: P1I0523 Extracted: 09/05/6 | <u>01</u> | | | | | | | | | |
| Blank Analyzed: 09/05/01 (P1I0523-B | LK1) | | | | | | | | | |
| Mercury | ND | 0.020 | mg/kg | | | | | | | |
| LCS Analyzed: 09/05/01 (P1I0523-BS | 1) | | 0 0 | | | | | | | |
| Mercury | 0.413 | 0.020 | mg/kg | 0.417 | | 99.0 | 85-115 | | | |
| Matrix Spike Analyzed: 09/05/01 (P1) | (0523-MS1) | | | | Source: F | KH0517- | | | | |
| Mercury | 0.594 | 0.020 | mg/kg | 0.417 | ND | 139 | 85-115 | | | M1 |
| Matrix Spike Dup Analyzed: 09/05/01 | (P1I0523-M | SD1) | | | Source: F | | | | | |
| Mercury | 0.527 | 0.020 | mg/kg | 0.417 | ND | 123 | 85-115 | 12.0 | 20 | M1 |
| Batch: P1J0103 Extracted: 10/01/ | 01 | | | | | | | | | |
| Blank Analyzed: 10/02/01 (P1J0103-B | | | | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Report Number:

PKH0452

Received: 08/27/01

METHOD BLANK OF DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|-------------|-----------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1J0103 Extracted: 10/01/03 | <u>L</u> | | | | | | | | | |
| LCS Analyzed: 10/02/01 (P1J0103-BS1) |) | | | | | | | | | |
| Zinc | 86.2 | 5.0 | mg/kg | 100 | | 86.2 | 80-120 | | | |
| Matrix Spike Analyzed: 10/02/01 (P1J0 | 103-MS1) | | | | Source: P | K10288-1 | 9 | | | |
| Zinc | 142 | 5.0 | mg/kg | 100 | 29 | 113 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 10/02/01 (| P1J0103-MSI | D1) | | | Source: P | K10288-1 | 9 | | | |
| Zinc | 117 | 5.0 | mg/kg | 100 | 29 | 88.0 | 75-125 | 19.3 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Report Number:

PKH0452

Received: 08/27/01

METHOD BLANK OC DATA

INORGANICS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------|-----------|-------|-------|-----------|---------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0611 Extracted: 09/06/01 | <u>_</u> | | | | | | | | | |
| Blank Analyzed: 09/06/01 (P1I0611-BL | K1) | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 09/06/01 (P110 | 611-MS1) | | | | Source: P | KH0448- | 05 | | | |
| Total Cyanide | 1.79 | 0.50 | mg/kg | 2.50 | ND | 71.6 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/06/01 (| P110611-MS | D1) | | | Source: P | KH0448- | 05 | | | |
| Total Cyanide | 1.31 | 0.50 | mg/kg | 2.50 | ND | 52.4 | 70-130 | 31.0 | 20 | M2,Q11 |
| Reference Analyzed: 09/06/01 (P110611 | -SRM1) | | | | | | | 0110 | 20 | 1412,Q11 |
| Total Cyanide | 109 | 20 | mg/kg | 201 | | 54.2 | 40-160 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-0-0150-2-2.10 South Mesa

Sampled: 08/25/01-08/26/01

Received: 08/27/01

NIETHOD BLANK QU DATA

PKH0452

DATA QUALIFIERS AND DEFINITIONS

Target analyte detected in method blank at or above the method reporting limit.
 Target analyte detected in blank at/above method acceptance criteria.

M1 Matrix spike recovery was high, the method control sample recovery was acceptable.
 M2 Matrix spike recovery was low, the method control sample recovery was acceptable.

N1 See case narrative.

Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.

R4 MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported.

RPD Relative Percent Difference

Ďel Mar Analytical

CHAIN OF CUSTODY FORM

9820 South State Brizo, Phoefix AZ 85044 (480) 785-00ns rha 1907 788-3821 2520 E. Sunsat Rd., Sulte 3, Las Veges, NV 89120 (702) 785-3820 F&X (702) 788-3821

| | | To the second control of the second control | Special Instructions | 10-70-70-1 10-70-70-1 10-70-70-1 | | | | | | | | | e: (Check) 72 hours | 5 days | nomal | (37/0) Sample Integrity: (Check) on ice intact on this project. Payment for services is |
|--------------------|--|---|--|--|-------------|---|--|--|--|---|--|--|------------------------|-------------------|------------------|---|
| | 127 | 1:3 tx.x | | 7 | X | | | | | | | | Tumaround Time: | 2 Points | 48 hours | Sample Integrity: intact s performed on this pr |
| Analysis Required | 2 st. | 34.4x | 18 | | X | | | | | | | | | | | 1 . 1 |
| | 4 | ∂γ:• | 1/1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 | х х | × | | | | | - | | | Date /Time: | | | Date Time: S |
| | 2.10 | N 0520 | 9 mm 2 mm 1 mm 1 mm | × | | | | | | | | | Received by: | A | Received by: 1% | Received in Lab by: |
| Project/PO Number: | 70211-0-0150-2- | 437 | Sampling Sampling Preservatives Date Time | 5/11 10/52/8 | 0820 199218 | | | | | | | | | (0:15 | 10/15 | 10010 |
| Prolect | 200 | | Sample Container # of Matrix Type Cont. | it skere | | | | | | | | | Date /Time: | 10/22/8 | Date /Time: | Date /Time: |
| | Olient Name/Address: $\mathcal{L}_{\mathcal{A}}_{\mathcal{A}}$ | Sampler J. M. C. Lutte. | Sample Sam Description Mai | 0.9- | | 1 | | | | | | | Relinduished By: | JUNIA 17-11 18411 | Rélinquished By: | Relinquished By: Date /Time: |





CORRECTIVE ACTION REPORT

Department:

GC/MS

Method:

8260B

Date:

09/09/2001

Matrix:

Water

Batch:

P1I1002

Samples:

PKH0451-02, PKH0563-01 - PKH0563-02, PKH0535-02, PKH0511-11

- PKH00511-13, PKH0540-02 & PKI0037-03

Identification and Definition of Problem:

The Matrix Spike (MS) recovered below the Method Detection Limit (MDL) for Vinyl Acetate. The MS recovered at a concentration of 11ppb and the MDL is 12ppb. The recovery of the compound is 44% and within the acceptance limits of 25-130%. Due to the MS recovering below the MDL, the Relative Percent Difference (RPD) between the MS and the Matrix Spike Duplicate (MSD) is not calculated in the report. The actual RPD between the MS and the MSD is 13%.

Determination of the Cause of the Problem:

The cause of the low recovery in the MS which caused the concentration to be below the MDL has not been determined.

Corrective Action:

The Laboratory Control Sample (LCS), Laboratory Control Sample Duplicate (LCSD) and MSD recovered within acceptance limits for Vinyl acetate. The RPD between the LCS and the LCSD was also within acceptance limits. Therefore, the data should not be significantly impacted. The MS has been flagged "N2" for Vinyl acetate to indicate that the compound was recovered at a concentration that is less than the MDL.

Elizabeth C. Wueschner: Shabett C. Wussen Date: 9/20/2001 Quality Assurance Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (588) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID: 70211-0-0152

Sampled: 08/29/01-08/30/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number: PKH0540

Received: 08/30/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|-------------|---------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| C | ADOMED AGAG | a | ug/kg | ug/kg | | | | |
| Sample ID: PKH0540-01 (DUN | | • | | | | | | |
| Acetone | EPA 8260B | P1H3104 | 1000 | ND | 1 | 8/31/01 | 9/10/01 | |
| Benzene | EPA 8260B | P1H3104 | 50 | ND | 1 | 8/31/01 | 9/10/01 | |
| Bromobenzene | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| Bromochloromethane | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| Bromodichloromethane | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| Bromoform | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | M2 |
| Bromomethane | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1H3104 | 500 | ND | 1 | 8/31/01 | 9/10/01 | |
| n-Butylbenzene | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| sec-Butylbenzene | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| tert-Butylbenzene | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| Carbon Disulfide | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| Carbon tetrachloride | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | 4 |
| Chlorobenzene | EPA 8260B | P1H3104 | 50 | ND | 1 | 8/31/01 | 9/10/01 | |
| Chloroethane | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| Chloroform | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| Chloromethane | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| 2-Chlorotoluene | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| 4-Chlorotoluene | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| Dibromochloromethane | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | M2 |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1H3104 | 100 | ND | . 1 | 8/31/01 | 9/10/01 | M2 |
| Dibromomethane | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1H3104 | 1,00 | ND | 1 | 8/31/01 | 9/10/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1H3104 | 50 | ND | . 1 | 8/31/01 | 9/10/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1H3104 | 100 | ND | . 1 | 8/31/01 | 9/10/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1H3104 | 100 | ND | . 1 | 8/31/01 | 9/10/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1H3104 | 100 | ND . | 1 . | 8/31/01 | 9/10/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1H3104 | 100 | ND | .1 | 8/31/01 | 9/10/01 | • |
| trans-1,3-Dichloropropene | EPA 8260B | P1H3104 | 100 | ND | -1 | 8/31/01 | 9/10/01 | |
| Ethylbenzene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| Hexachlorobutadiene | EPA 8260B | P1H3104 | 250 | ND | -1 | 8/31/01 | 9/10/01 | |
| 2-Hexanone | EPA 8260B | P1H3104 | 500 | ND | 1 | 8/31/01 | 9/10/01 | |
| Iodomethane | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| Isopropylbenzene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| p-Isopropyltoluene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| | | | | | | | | |

Melissa Evans Project Manager

PKH0540 Page 2 of 34



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 579-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

PKH0540

| Analysta | Method | Batch | Reporting | Sample | Dilution Factor | Date Extracted | Date | Data |
|--|--------------|---------|-----------|--------|--------------------|-------------------|----------|------------|
| Analyte | Method | Daten | Limit | Result | Factor | Extracted | Analyzed | Qualifiers |
| | | | ug/kg | ug/kg | | | | |
| Sample ID: PKH0540-01 (DUM | PSTER 4212 - | Soil) | | | | | | |
| Methylene chloride | EPA 8260B | P1H3104 | 500 | ND | - 1 | 8/31/01 | 9/10/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1H3104 | 500 | ND | 1 | 8/31/01 | 9/10/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| Naphthalene | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| n-Propylbenzene | EPA 8260B | P1H3104 | 100 | ND · | 1 | 8/31/01 | 9/10/01 | |
| Styrene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | M2 |
| Tetrachloroethene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | . • |
| Toluene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| Trichloroethene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| Trichlorofluoromethane | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1H3104 | 500 | ND | 1 | 8/31/01 | 9/10/01 | M2 |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1H3104 | 100 | ND | 1 . | 8/31/01 | 9/10/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1H3104 | 100 | ND | 1 | 8/31/01 | 9/10/01 | |
| Vinyl acetate | EPA 8260B | P1H3104 | 1200 | ND | 1 | 8/31/01 | 9/10/01 | M2 |
| Vinyl chloride | EPA 8260B | P1H3104 | 250 | ND | 1 | 8/31/01 | 9/10/01 | |
| Xylenes, Total | EPA 8260B | P1H3104 | 150 | ND | .1 | 8/31/01 | 9/10/01 | |
| Surrogate: Dibromofluoromethane (70-125 | 5%) | | | 89.6 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 86.4 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-130) | %) | | | 83.2 % | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0540

Received: 08/30/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|-----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0540-02 (RIN | ISATE 8/30/01 - | Water) | ·· · | ~· ···· | | • | | |
| Acetone | EPA 8260B | P111002 | 20 | ND | 1 | 9/9/01 | 9/9/01 | |
| Benzene | EPA 8260B | P111002 | 2.0 | ND | i | 9/9/01 | 9/9/01 | |
| Bromobenzene | EPA 8260B | P111002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Bromochloromethane | EPA 8260B | P1I1002 | 5.0 | ND | Ī | 9/9/01 | 9/9/01 | |
| Bromodichloromethane | EPA 8260B | P111002 | 2.0 | ND | ī | 9/9/01 | 9/9/01 | |
| Bromoform | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Bromomethane | EPA 8260B | P111002 | 5.0 | ND | - 1 | 9/9/01 | 9/9/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1002 | 10 | ND | 1 | 9/9/01 | 9/9/01 | |
| n-Butylbenzene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | • |
| tert-Butylbenzene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Carbon Disulfide | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Chlorobenzene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Chloroethane | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Chloroform | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Chloromethane | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Dibromochloromethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P111002 | 2.0 | ND | . 1 | 9/9/01 | 9/9/01 | |
| Dibromomethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1-Dichloroethene | EPA 8260B | P111002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1002 | 2.0 | ND | . 1 | 9/9/01 | 9/9/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,3-Dichloropropane | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Ethylbenzene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 2-Hexanone | EPA 8260B | P1I1002 | 10 | ND . | 1 | 9/9/01 | 9/9/01 | |
| Iodomethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Isopropylbenzene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |

Melissa Evans Project Manager

PKH0540 Page 4 of 34



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-0152

Sampled: 08/29/01-08/30/01

Report Number:

PKH0540

Received: 08/30/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/I | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|------------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0540-02 (RIN | SATE 8/30/01 - ' | Water) | _ | • | | | | |
| Methylene chloride | EPA 8260B | P1I1002 | 5.0 | ND | . 1 | 9/9/01 | 9/9/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1002 | 10 | ND . | 1 | 9/9/01 | 9/9/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I1002 | 5.0 | ND · | 1 | 9/9/01 | 9/9/01 | |
| Naphthalene | EPA 8260B | P1I1002 | 5.0 | ND | 1 . | 9/9/01 | 9/9/01 | |
| n-Propylbenzene | EPA 8260B | P1I1002 | 2.0 | ND | . 1 | 9/9/01 | 9/9/01 | |
| Styrene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1002 | 2.0 | ND. | 1 | 9/9/01 | 9/9/01 | |
| Tetrachloroethene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Toluene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P111002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 : | 9/9/01 | 9/9/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Trichloroethene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Trichlorofluoromethane | EPA 8260B | P111002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1002 | 10 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Vinyl acetate | EPA 8260B | P111002 | 25 | ND | 1 | 9/9/01 | 9/9/01 | |
| Vinyl chloride | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Xylenes, Total | EPA 8260B | P1I1002 | 10 | ND | 1 | 9/9/01 | 9/9/01 | |
| Surrogate: Dibromofluoromethane (80-12 | ?0%) | | | 104 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | 104 % | | | | |
| Surrogate: 4-Bromofluorobenzene (80-12 | 0%) | | | 99.2 % | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Report Number:

PKH0540

Received: 08/30/01

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---------------------------|-----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0540-01 (DU | MPSTER 4212 - : | Soil) | | | | | | |
| Arsenic | EPA 6010B | P110713 | 5.0 | ND | 1 | 9/7/01 | 9/10/01 | |
| Barium | EPA 6010B | P1I0713 | 1.0 | 73 | 1 | 9/7/01 | 9/10/01 | |
| Cadmium | EPA 6010B | P110713 | 0.50 | ND | 1 | 9/7/01 | 9/10/01 | |
| Chromium | EPA 6010B | P1I0713 | 1.0 | 31 | 1 | 9/7/01 | 9/10/01 | N1 |
| Lead | EPA 6010B | P1I0713 | 5.0 | ND | 1 | 9/7/01 | 9/10/01 | |
| Mercury | EPA 7471A | P1I0524 | 0.020 | ND | 1 | 9/5/01 | 9/5/01 | |
| Selenium | EPA 6010B | P1I0713 | 5.0 | ND | 1 | 9/7/01 | 9/10/01 | |
| Silver | EPA 6010B | P1I0713 | 0.50 | ND | 1 | 9/7/01 | 9/10/01 | |



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Report Number:

PKH0540

Received: 08/30/01

TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|-----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0540-02 (RINS | ATE 8/30/01 - V | Vater) | | | | | | |
| Arsenic | EPA 200.7 | P110605 | 0.050 | ND | . 1 | 9/6/01 | 9/8/01 | |
| Chromium VI | SM3500CR-D | P1I0404 | 0.025 | ND | 1 | 8/31/01 | 8/31/01 | |
| Copper | EPA 200.7 | P1I0605 | 0.020 | ND | 1 | 9/6/01 | 9/8/01 | |
| Nickel | EPA 200.7 | P1I0605 | 0.050 | ND | 1 | 9/6/01 | 9/8/01 | |
| Zinc | EPA 200.7 | P1I0605 | 0.050 | ND | 1 | 9/6/01 | 9/8/01 | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Report Number:

PKH0540

Received: 08/30/01

INORGANICS

| Analyte | Method | Batch | Reporting Limit P/NP | Sample Result P/NP | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|-----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0540-01 (DUM | PSTER 4212 - S | oil) | | | | | | |
| Paint Filter Liquids Test | EPA 9095A | P1I0521 | NA mg/kg | Not Present mg/kg | 1 | 9/5/01 | 9/5/01 | |
| Sample ID: PKH0540-01 (DUM | PSTER 4212 - Se | oil) | | | | | | |
| Total Cyanide | EPA 9014 | P111024 | 0.50 mg/l | ND mg/l | , 1 | 9/10/01 | 9/11/01 | |
| Sample ID: PKH0540-02 (RINS | ATE 8/30/01 - W | ater) | | | | | | |
| Total Cyanide | SM4500-CN,C-E | P111008 | 0.020 | ND | 1 | 9/10/01 | 9/10/01 | |



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Law Engineering

Analyte

4634 S. 36th Place Phoenix, AZ 85040

Jim Clarke Attention:

Client Project ID:

Report Number:

Reporting

Limit

Result

70211-0-0152

%REC

Limits

RPD

Sampled: 08/29/01-08/30/01

Data

Qualifiers

Received: 08/30/01

RPD

Limit

PKH0540

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Units

Spike

Level

Source

Result

%REC

| 1111117 | resure | 2311111 | Cinto | Level | resure | /UKLLC | Limited | 141 2 | A. A | Quanticis | |
|---------------------------------|-----------|---------|-------|-------|--------|--------|---------|-------|--|-----------|--|
| Batch: P1H3104 Extracted: 03 | 8/31/01 | | | | | | | | | | |
| Blank Analyzed: 09/10/01 (P1H3: | 104-BLK1) | | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | | | | | | | | |
| Benzene | ND | 50 | ug/kg | | | | | | | | |
| Bromobenzene | ND | 250 | ug/kg | | | | | | | | |
| Bromochloromethane | ND | 250 | ug/kg | | | | | | | | |
| Bromodichloromethane | ND | 100 | ug/kg | | | | | | | | |
| Bromoform | ND | 250 | ug/kg | | | | | | | | |
| Bromomethane | ND | 250 | ug/kg | • | | | | | | | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | | | | | | | | |
| n-Butylbenzene | ND | 250 | ug/kg | | | | | | | | |
| sec-Butylbenzene | ND | 250 | ug/kg | | | | | | | | |
| tert-Butylbenzene | ND | 250 | ug/kg | | | | | | | 1.5 | |
| Carbon Disulfide | ND | 250 | ug/kg | | | | ٠ | | | | |
| Carbon tetrachloride | ND | 250 | ug/kg | | | | | | | | |
| Chlorobenzene | ND | 50 | ug/kg | | | | | | | | |
| Chloroethane | ND | 250 | ug/kg | | | | | | | | |
| Chloroform | ND | 100 | ug/kg | | | | | | | | |
| Chloromethane | ND | 250 | ug/kg | | | | | | | | |
| 2-Chlorotoluene | ND | 250 | ug/kg | | | | | | | | |
| 4-Chlorotoluene | ND | 250 | ug/kg | | | | | | | | |
| Dibromochloromethane | ND | 100 | ug/kg | | | | | | , | | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/kg | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 100 | ug/kg | | | | | | | , . | |
| Dibromomethane | ND | 100 | ug/kg | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | | |
| 1,3-Dichlorobenzene | ND - | 100 | ug/kg | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | | |
| Dichlorodifluoromethane | ND | 250 | ug/kg | | | | | | | | |
| 1,1-Dichloroethane | ND | 100 | ug/kg | | | | | | | | |
| 1,2-Dichloroethane | ND | 50 | ug/kg | | | | | | | | |
| 1,1-Dichloroethene | ND | 250 | ug/kg | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | | |
| 1,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | | |
| 1,3-Dichloropropane | ND | 100 | ug/kg | | | | | | | | |
| 2,2-Dichloropropane | , ND | 100 | ug/kg | | | | | | | | |
| , | | | -6-6 | | | | | | | | |
| l | | | | | | | | | | | |

Melissa Evans Project Manager

PKH0540 Page 9 of 34



1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 (7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 (9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

Report Number:

PKH0540

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------|----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3104 Extracted: 08 | 3/31/01 | | • | | | | | | | |
| Blank Analyzed: 09/10/01 (P1H31 | 04-BLK1) | | | | | | | | | |
| 1,1-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 250 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 500 | ug/kg | • | | | | | 1.4 | |
| Iodomethane | ND | 100 | ug/kg | | • | | | | | |
| Isopropylbenzene | ND | 100 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 100 | ug/kg | | | | | | | |
| Methylene chloride | ND | 500 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 500 | ug/kg | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | | | | |
| Naphthalene | ND | 250 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 100 | ug/kg | | | | | | | |
| Styrene | ND | 100 | ug/kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | | | | | | | |
| I,1,2,2-Tetrachloroethane | ND | 100 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 100 | ug/kg | | | | | | | |
| Toluene | ND | 100 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 100 | ug/kg | | | | • | | | |
| Trichloroethene | ND | 100 | ug/kg | ٠ | | | | | | |
| Trichlorofluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Vinyl acetate | ND | 1200 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 250 | ug/kg | | | | | | | |
| Xylenes, Total | ND . | 150 | ug/kg | | | | | | | |
| Surrogate: Dibromofluoromethane | 1350 | | ug/kg | 1250 | | 108 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1250 | | ug/kg | 1250 | | 100 | 50-135 | | • | |
| Surrogate: 4-Bromofluorobenzene | 1110 | • | ug/kg | 1250 | | 88.8 | 70-130 | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (658) 505-8596 FAX (958) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

RPD

Data

Report Number:

Reporting

PKH0540

TOTALDINOPERIANK(CODASIA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Spike

Source

%REC

| Batch: P1H3104 Extracted: 08/31/0 LCS Analyzed: 09/10/01 (P1H3104-BS1 Acetone Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane | | 1000 50 250 250 100 | ug/kg ug/kg ug/kg | 1000 1000 | 52.5 | 5-200 | | | |
|---|--|---------------------------------|-------------------------|--------------|----------|--------|--|-----|--|
| Acetone Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform | ND 968 981 1010 988 736 | 50 250 250 | ug/kg ug/kg | 1000 | | 5-200 | | | |
| Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform | 968 981 1010 988 736 | 50 250 250 | ug/kg ug/kg | 1000 | | 5-200 | | | |
| Bromobenzene Bromochloromethane Bromodichloromethane Bromoform | 981 1010 988 736 | 250 250 | ug/kg | | 06.0 | | | | |
| Bromochloromethane Bromodichloromethane Bromoform | 1010 988 736 | 250 | | 1000 | 96.8 | 65-130 | | | |
| Bromodichloromethane Bromoform | 988 736 | | . * | 1000 | 98.1 | 60-135 | | | |
| Bromoform | 736 | 100 | ug/kg | 1000 | 101 | 60-135 | | | |
| | | | ug/kg | 1000 | 98.8 | 30-135 | | * . | |
| Bromomethane | 874 | 250 | ug/kg | 1000 | 73.6 | 60-140 | | | |
| | 674 | 250 | ug/kg | 1000 | 87.4 | 10-200 | | | |
| 2-Butanone (MEK) | 544 | 500 | ug/kg | 1000 | 54.4 | 10-160 | | | |
| n-Butylbenzene | 972 | 250 | ug/kg | 1000 | 97.2 | 65-125 | | | |
| sec-Butylbenzene | 968 | 250 | ug/kg | 1000 | 96.8 | 70-135 | | | |
| tert-Butylbenzene | 978 | 250 | ug/kg | 1000 | 97.8 | 70-130 | | | |
| Carbon Disulfide | 860 | 250 | ug/kg | 1000 | 86.0 | 20-120 | | | |
| Carbon tetrachloride | 1040 | 250 | ug/kg | 1000 | 104 | 70-140 | | | |
| Chlorobenzene | 1060 | 50 | ug/kg | 1000 | 106 | 75-125 | | | |
| Chloroethane | 893 | 250 | ug/kg | 1000 | 89.3 | 10-200 | | | |
| Chloroform | 1020 | 100 | ug/kg | 1000 | 102 | 35-135 | | | |
| Chloromethane | 809 | 250 | ug/kg | 1000 | 80.9 | 10-200 | | | |
| 2-Chlorotoluene | 971 | 250 | ug/kg | 1000 | 97.1 | 70-135 | | | |
| 4-Chlorotoluene | 962 | 250 | ug/kg | 1000 | 96.2 | 75-135 | | | |
| Dibromochloromethane | 940 | 100 | ug/kg | 1000 | 94.0 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 556 | 250 | ug/kg | 1000 | 55.6 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 808 | 100 | ug/kg | 1000 | 80.8 | 70-130 | | | |
| Dibromomethane | 871 | 100 | ug/kg | 1000 | 87.1 | 65-130 | | | |
| 1,2-Dichlorobenzene | 978 | 100 | ug/kg | 1000 | 97.8 | 70-125 | | | |
| 1,3-Dichlorobenzene | 1000 | 100 | ug/kg | 1000 | 100 | 70-125 | | | |
| 1,4-Dichlorobenzene | 1020 | 100 | ug/kg | 1000 | 102 | 70-135 | | | |
| Dichlorodifluoromethane | 855 | 250 | ug/kg | 1000 | 85.5 | 10-185 | | | |
| 1,1-Dichloroethane | 1020 | 100 | ug/kg | 1000 | 102 | 60-140 | | | |
| 1,2-Dichloroethane | 901 | 50 | ug/kg | 1000 | 90.1 | 55-135 | | | |
| 1,1-Dichloroethene | 1010 | 250 | ug/kg | 1000 | 101 | 55-145 | | | |
| cis-1,2-Dichloroethene | 1020 | 100 | ug/kg | 1000 | 102 | 60-125 | | | |
| trans-1,2-Dichloroethene | 1030 | 100 | ug/kg | 1000 | 103 | 70-145 | | | |
| 1,2-Dichloropropane | 971 | · 100 | ug/kg | 1000 | 97.1 | 65-130 | | | |
| 1,3-Dichloropropane | 871 | 100 | ug/kg | 1000 | 87.1 | 65-130 | | | |
| 2,2-Dichloropropane | 1150 | 100 | ug/kg | 1000 | 115 | 60-135 | | | |
| 1,1-Dichloropropene | 973 | 100 | ug/kg | 1000 | 97.3 | 65-130 | | * * | |

Melissa Evans Project Manager PKH0540 Page 11 of 34



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0540

Received: 08/30/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Spike Source | | | | RPD | Data |
|---|----------------|-----------|-------|-------|--------------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3104 Extracted: 08 | <u>8/31/01</u> | | | | | | | | | |
| LCS Analyzed: 09/10/01 (P1H310 | 04-BS1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 930 | 100 | ug/kg | 1000 | | 93.0 | 60-125 | | | |
| trans-1,3-Dichloropropene | 849 | 100 | ug/kg | 1000 | | 84.9 | 50-130 | | | |
| Ethylbenzene | 1030 | 100 | ug/kg | 1000 | | 103 | 70-125 | | | |
| Hexachlorobutadiene | 1020 | 250 | ug/kg | 1000 | | 102 | 60-125 | | | |
| 2-Hexanone | 563 | 500 | ug/kg | 1000 | | 56.3 | 25-185 | | | |
| Iodomethane | 1090 | 100 | ug/kg | 1000 | | 109 | 30-155 | | | • |
| Isopropylbenzene | 1050 | 100 | ug/kg | 1000 | | 105 | 70-135 | | | |
| p-Isopropyltoluene | 948 | 100 | ug/kg | 1000 | | 94.8 | 65-130 | | • | |
| Methylene chloride | 1000 | 500 | ug/kg | 1000 | | 100 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 595 | 500 | ug/kg | 1000 | | 59.5 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 938 | 250 | ug/kg | 1000 | | 93.8 | 55-135 | | | |
| Naphthalene | 697 | 250 | ug/kg | 1000 | | 69.7 | 45-155 | | | |
| n-Propylbenzene | 991 | 100 | ug/kg | 1000 | | 99.1 | 75-135 | | | |
| Styrene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-130 | | | 100 |
| 1,1,1,2-Tetrachloroethane | 1050 | 250 | ug/kg | 1000 | | 105 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 712 | 100 | ug/kg | 1000 | | 71.2 | 60-140 | | | |
| Tetrachloroethene | 1050 | 100 | ug/kg | 1000 | | 105 | 65-130 | | | |
| Toluene | 1000 | 100 | ug/kg | 1000 | | 100 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 930 | 250 | ug/kg | 1000 | | 93.0 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 1010 | 250 | ug/kg | 1000 | | 101 | 55-135 | | | |
| 1,1,1-Trichloroethane | 1060 | 100 | ug/kg | 1000 | | 106 | 65-135 | | | |
| 1,1,2-Trichloroethane | 880 | 100 | ug/kg | 1000 | | 88.0 | 65-130 | | | |
| Trichloroethene | 983 | 100 | ug/kg | 1000 | | 98.3 | 70-130 | | | |
| Trichlorofluoromethane | 1060 | 250 | ug/kg | 1000 | | 106 | 10-200 | | | |
| 1,2,3-Trichloropropane | 644 | 500 | ug/kg | 1000 | | 64.4 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 977 | 100 | ug/kg | 1000 | | 97.7 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 971 | 100 | ug/kg | 1000 | | 97.1 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 64.4 | 25-130 | | | |
| Vinyl chloride | 416 | 250 | ug/kg | 1000 | | 41.6 | 10-200 | | | |
| Xylenes, Total | 3120 | 150 | ug/kg | 3000 | | 104 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 1330 | | ug/kg | 1250 | | 106 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1300 | | ug/kg | 1250 | | 104 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1210 | | ug/kg | 1250 | | 96.8 | 70-130 | | | |
| - · · · · · · · · · · · · · · · · · · · | | | 0 0 | | | | | | | |



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Law Engineering 4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID: 7

Reporting

70211-0-0152

Sampled: 08/29/01-08/30/01

RPD

Data

Received: 08/30/01

Report Number: PKH0540

www.printelloniwaskoponiaera

Spike

Source

%REC

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
|---------------------------------|-------------|-------|--------|-------|--------|------|--------|-------|-------|------------|
| Batch: P1H3104 Extracted: 08 | /31/01 | | | | | | ٠ | | | |
| LCS Dup Analyzed: 09/10/01 (P1F | H3104-BSD1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 45.8 | 5-200 | 13.6 | 35 | |
| Benzene | 949 | 50 | ug/kg | 1000 | | 94.9 | 65-130 | 1.98 | 35 | |
| Bromobenzene | 957 | 250 | ug/kg | 1000 | | 95.7 | 60-135 | 2.48 | 35 | |
| Bromochloromethane | 1000 | 250 | ug/kg | 1000 | | 100 | 60-135 | 0.995 | 35 | |
| Bromodichloromethane | 963 | 100 | ug/kg | 1000 | | 96.3 | 30-135 | 2.56 | 35 | |
| Bromoform | 718 | 250 | ug/kg | 1000 | | 71.8 | 60-140 | 2.48 | 35 | |
| Bromomethane | 865 | 250 | ug/kg | 1000 | | 86.5 | 10-200 | 1.04 | 35 | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | 1000 | | 48.5 | 10-160 | 11.5 | 35 | |
| n-Butylbenzene | 964 | 250 | ug/kg | 1000 | | 96.4 | 65-125 | 0.826 | 35 | |
| sec-Butylbenzene | 960 | 250 | ug/kg | 1000 | | 96.0 | 70-135 | 0.830 | 35 | |
| tert-Butylbenzene | 968 | 250 | ug/kg | 1000 | | 96.8 | 70-130 | 1.03 | 35 | |
| Carbon Disulfide | 831 | 250 | ug/kg | 1000 | | 83.1 | 20-120 | 3.43 | 35 | • |
| Carbon tetrachloride | 1000 | 250 | ug/kg | 1000 | | 100 | 70-140 | 3.92 | 35 | |
| Chlorobenzene | 1040 | 50 | ug/kg | 1000 | | 104 | 75-125 | 1.90 | 35 | |
| Chloroethane | 826 | 250 | ug/kg | 1000 | | 82.6 | 10-200 | 7.80 | 35 | |
| Chloroform | 1020 | 100 | ug/kg- | 1000 | | 102 | 35-135 | 0.00 | 35 | |
| Chloromethane | 7 67 | 250 | ug/kg | 1000 | | 76.7 | 10-200 | 5.33 | 35 | |
| 2-Chlorotoluene | 958 | . 250 | ug/kg | 1000 | | 95.8 | 70-135 | 1.35 | 35 | |
| 4-Chlorotoluene | 972 | 250 | ug/kg | 1000 | | 97.2 | 75-135 | 1.03 | 35 | |
| Dibromochloromethane | 891 | 100 | ug/kg | 1000 | | 89.1 | 35-135 | 5.35 | 35 | |
| 1,2-Dibromo-3-chloropropane | 534 | 250 | ug/kg | 1000 | | 53.4 | 50-155 | 4.04 | 35 | |
| 1,2-Dibromoethane (EDB) | 796 | 100 | ug/kg | 1000 | | 79.6 | 70-130 | 1.50 | 35 | - |
| Dibromomethane | 858 | 100 | ug/kg | 1000 | • | 85.8 | 65-130 | 1.50 | 35 | |
| 1,2-Dichlorobenzene | 969 | 100 | ug/kg | 1000 | | 96.9 | 70-125 | 0.924 | 35 | |
| 1,3-Dichlorobenzene | 988 | 100 | ug/kg | 1000 | | 98.8 | 70-125 | 1.21 | 35 | |
| 1,4-Dichlorobenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-135 | 0.985 | 35 | |
| Dichlorodifluoromethane | 808 | 250 | ug/kg | 1000 | | 80.8 | 10-185 | 5.65 | 35 | |
| 1,1-Dichloroethane | 985 | 100 | ug/kg | 1000 | | 98.5 | 60-140 | 3.49 | 35 | |
| 1,2-Dichloroethane | 877 | 50 | ug/kg | 1000 | | 87.7 | 55-135 | 2.70 | 35 | |
| 1,1-Dichloroethene | 962 | 250 | ug/kg | 1000 | | 96.2 | 55-145 | 4.87 | 35 | |
| cis-1,2-Dichloroethene | 1000 | 100 | ug/kg | 1000 | | 100 | 60-125 | 1.98 | 35 | |
| trans-1,2-Dichloroethene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-145 | 1.96 | 35 | |
| 1,2-Dichloropropane | 967 | 100 | ug/kg | 1000 | | 96.7 | 65-130 | 0.413 | 35 | |
| 1,3-Dichloropropane | 841 | 100 | ug/kg | 1000 | | 84.1 | 65-130 | 3.50 | 35 | |
| 2,2-Dichloropropane | 1150 | 100 | ug/kg | 1000 | | 115 | 60-135 | 0.00 | 35 | |
| 1,1-Dichloropropene | 959 | 100 | ug/kg | 1000 | | 95.9 | 65-130 | 1.45 | 35 | |
| 4 | | | | | | | | | | |

Melissa Evans Project Manager PKH0540 Page 13 of 34



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

Report Number:

PKH0540

SPRINCONNECTION

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------|-------------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3104 Extracted: 0 | 8/31/01 | | | | | | | | 2 | |
| LCS Dup Analyzed: 09/10/01 (P1 | H3104-BSD1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 922 | 100 | ug/kg | 1000 | | 92.2 | 60-125 | 0.864 | 35 | |
| trans-1,3-Dichloropropene | 827 | 100 | ug/kg | 1000 | | 82.7 | 50-130 | 2.63 | 35 | |
| Ethylbenzene | 1000 | 100 | ug/kg | 1000 | | 100 | 70-125 | 2.96 | 35 | |
| Hexachlorobutadiene | 1030 | 250 | ug/kg | 1000 | | 103 | 60-125 | 0.976 | 35 | |
| 2-Hexanone | 524 | 500 | ug/kg | 1000 | | 52.4 | 25-185 | 7.18 | 35 | |
| lodomethane | 1060 | 100 | ug/kg | 1000 | | 106 | 30-155 | 2.79 | 35 | |
| lsopropylbenzene | 1030 | 100 | ug/kg | 1000 | | 103 | 70-135 | 1.92 | 35 | |
| p-lsopropyltoluene | 942 | 100 | ug/kg | 1000 | | 94.2 | 65-130 | 0.635 | 35 | |
| Methylene chloride | 967 | 500 | ug/kg | 1000 | | 96.7 | 60-140 | 3.36 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | .580 | 500 | ug/kg | 1000 | | 58.0 | 10-175 | 2.55 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 917 | 250 | ug/kg | 1000 | | 91.7 | 55-135 | 2.26 | 35 | |
| Naphthalene | 665 | 250 | ug/kg | 1000 | | 66.5 | 45-155 | 4.70 | 35 | |
| n-Propylbenzene | 989 | 100 | ug/kg | 1000 | | 98.9 | 75-135 | 0.202 | 35 | |
| Styrene | 1020 | 100 | ug/kg | 1000 | | 102 | 70-130 | 1.94 | 35 | |
| 1,1,1,2-Tetrachloroethane | 1040 | 250 | ug/kg | 1000 | | 104 | 70-130 | 0.957 | 35 | |
| 1,1,2,2-Tetrachloroethane | 707 | 100 | ug/kg | 1000 | | 70.7 | 60-140 | 0.705 | 35 | |
| Tetrachloroethene | 1040 | 100 | ug/kg | 1000 | | 104 | 65-130 | 0.957 | 35 | |
| Toluene | 994 | 100 | ug/kg | 1000 | | 99.4 | 70-125 | 0.602 | 35 | |
| 1,2,3-Trichlorobenzene | 894 | 250 | ug/kg | 1000 | | 89.4 | 60-135 | 3.95 | 35 | |
| 1,2,4-Trichlorobenzene | 979 | 250 | ug/kg | 1000 | | 97.9 | 55-135 | 3.12 | 35 | |
| 1,1,1-Trichloroethane | 1030 | 100 | ug/kg | 1000 | | 103 | 65-135 | 2.87 | 35 | |
| 1,1,2-Trichloroethane | 846 | 100 | ug/kg | 1000 | | 84.6 | 65-130 | 3.94 | 35 | |
| Trichloroethene | 990 | 100 | ug/kg | 1000 | | 99.0 | 70-130 | 0.710 | 35 | |
| Trichlorofluoromethane | 1050 | 250 | ug/kg | 1000 | | 105 | 10-200 | 0.948 | 35 | |
| 1,2,3-Trichloropropane | 627 | 500 | ug/kg | 1000 | | 62.7 | 60-150 | 2.68 | 35 | • |
| 1,2,4-Trimethylbenzene | 986 | 100 | ug/kg | 1000 | | 98.6 | 75-130 | 0.917 | 35 | |
| 1,3,5-Trimethylbenzene | 959 | 100 | ug/kg | 1000 | | 95.9 | 70-130 | 1.24 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 62.6 | 25-130 | 2.83 | 35 | |
| Vinyl chloride | 396 | 250 | ug/kg | 1000 | | 39.6 | 10-200 | 4.93 | 35 | |
| Xylenes, Total | 3080 | 150 | ug/kg | 3000 | | 103 | 70-130 | 1.29 | 35 | - |
| Surrogate: Dibromofluoromethane | 1280 | | ug/kg | 1250 | | 102 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1260 | | ug/kg | 1250 | | 101 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1210 | | ug/kg | 1250 | | 96.8 | 70-130 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

Reporting

70211-0-0152

Sampled: 08/29/01-08/30/01

RPD

Data

Received: 08/30/01

%REC

Report Number: PK

PKH0540

METHOD BLANKQC DATA

Spike

Source

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
|-------------|--|---|---|--|---------|--------------------------|------------------------|-----------------------|------------|
| 1/01 | | | | | | | | | |
| 1H3104-MS1) | | | | Source: P | KH0540- | 01 | | | |
| ND | 1000 | ug/kg | 1000 | ND | 53.5 | 5-200 | | | |
| 755 | 50 | ug/kg | 1000 | ND | 75.5 | 65-130 | | | |
| 840 | 250 | ug/kg | 1000 | ND | 84.0 | 60-135 | | | |
| 753 | 250 | ug/kg | 1000 | ND | 75.3 | 60-135 | | | |
| 770 | 100 | ug/kg | 1000 | ND | 77.0 | 30-135 | | | |
| 589 | 250 | ug/kg | 1000 | ND | 58.9 | 60-140 | | | M2 |
| 640 | 250 | ug/kg | 1000 | ND | 64.0 | 10-200 | | | |
| ND | 500 | ug/kg | 1000 | ND | 46.8 | 10-160 | | | |
| 812 | 250 | ug/kg | 1000 | ND | 81.2 | 65-125 | | • | |
| 831 | 250 | ug/kg | 1000 | ND | 83.1 | 70-135 | | | |
| 822 | 250 | ug/kg | 1000 | ND | 82.2 | 70-130 | | | |
| 596 | 250 | ug/kg | 1000 | ND | 59.6 | 20-120 | | | |
| 760 | 250 | ug/kg | 1000 | ND | 76.0 | 70-140 | | | |
| 872 | 50 | ug/kg | 1000 | ND | 87.2 | 75-125 | | | |
| 664 | 250 | ug/kg | 1000 | ND | 66.4 | 10-200 | | | |
| 809 | 100 | ug/kg | 1000 | ND | 80.9 | 35-135 | | | |
| 545 | 250 | ug/kg | 1000 | ND | 54.5 | 10-200 | | | |
| 822 | 250 | ug/kg | 1000 | ND | 82.2 | 70-135 | | | |
| 828 | 250 | ug/kg | 1000 | ND | 82.8 | 75-135 | | | |
| 747 | 100 | ug/kg | 1000 | ND | 74.7 | 35-135 | | | |
| 426 | 250 | ug/kg | 1000 | ND | 42.6 | 50-155 | | | M2 |
| 650 | 100 | ug/kg | 1000 | ND | 65.0 | 70-130 | | | M2 |
| 684 | 100 | ug/kg | 1000 | ND | 68.4 | 65-130 | | | |
| 827 | 100 | ug/kg | 1000 | ND | 82.7 | 70-125 | | | |
| 868 | 100 | ug/kg | 1000 | ND | 86.8 | 70-125 | | | |
| 875 | 100 | ug/kg | 1000 | ND | 87.5 | 70-135 | | | |
| 412 | 250 | ug/kg | 1000 | ND | 41.2 | 10-185 | | | |
| 764 | 100 | ug/kg | 1000 | ND | 76.4 | 60-140 | | | |
| 699 | 50 | ug/kg | 1000 | ND | 69.9 | 55-135 | | | |
| 716 | 250 | ug/kg | 1000 | ND | 71.6 | 55-145 | | | |
| 800 | 100 | ug/kg | 1000 | ND | 80.0 | 60-125 | | | |
| 750 | 100 | ug/kg | 1000 | ND | 75.0 | 70-145 | | | |
| 784 | 100 | ug/kg | 1000 | ND | 78.4 | 65-130 | | | |
| 699 | 100 | ug/kg | 1000 | ND | 69.9 | 65-130 | | | • |
| 911 | 100 | | 1000 | ND | 91.1 | 60-135 | | | |
| 734 | 100 | ug/kg | 1000 | ND | 73.4 | 65-130 | | | • |
| | 1/01 1H3104-MS1) ND 755 840 753 770 589 640 ND 812 831 822 596 760 872 664 809 545 822 828 747 426 650 684 827 868 875 412 764 699 716 800 750 784 699 911 | 1/01 1H3104-MS1) ND 1000 755 50 840 250 753 250 770 100 589 250 640 250 ND 500 812 250 831 250 822 250 596 250 760 250 872 50 664 250 872 50 664 250 872 50 664 250 872 50 664 250 872 50 664 250 872 100 545 250 822 250 828 250 747 100 426 250 650 100 684 100 827 100 827 100 868 100 875 100 412 250 764 100 699 50 716 250 800 100 750 100 784 100 699 100 911 100 | 1/01 1H3104-MS1) ND 1000 ug/kg 755 50 ug/kg 840 250 ug/kg 753 250 ug/kg 770 100 ug/kg 589 250 ug/kg ND 500 ug/kg 812 250 ug/kg 812 250 ug/kg 822 250 ug/kg 822 250 ug/kg 8760 250 ug/kg 872 50 ug/kg 872 50 ug/kg 872 50 ug/kg 809 100 ug/kg 822 250 ug/kg 809 100 ug/kg 822 250 ug/kg 821 250 ug/kg 872 50 ug/kg 873 100 ug/kg 8747 100 ug/kg 8747 100 ug/kg 875 100 ug/kg 875 100 ug/kg 875 100 ug/kg 8764 100 ug/kg 875 100 ug/kg 875 100 ug/kg 875 100 ug/kg 875 100 ug/kg 8764 100 ug/kg 875 100 ug/kg 875 100 ug/kg 875 100 ug/kg 8764 100 ug/kg 875 100 ug/kg | 1/01 1H3104-MS1) ND 1000 ug/kg 1000 755 50 ug/kg 1000 840 250 ug/kg 1000 753 250 ug/kg 1000 589 250 ug/kg 1000 ND 500 ug/kg 1000 812 250 ug/kg 1000 822 250 ug/kg 1000 822 250 ug/kg 1000 8760 250 ug/kg 1000 8772 50 ug/kg 1000 872 50 ug/kg 1000 872 50 ug/kg 1000 874 1000 ug/kg 1000 877 100 ug/kg 1000 877 100 ug/kg 1000 877 100 ug/kg 1000 878 1000 879 100 ug/kg 1000 871 100 ug/kg 1000 872 50 ug/kg 1000 873 1000 874 1000 ug/kg 1000 875 250 ug/kg 1000 876 250 ug/kg 1000 877 100 ug/kg 1000 878 1000 878 1000 ug/kg 1000 879 100 ug/kg 1000 871 100 ug/kg 1000 872 100 ug/kg 1000 873 100 ug/kg 1000 874 100 ug/kg 1000 875 100 ug/kg 1000 876 100 ug/kg 1000 877 100 ug/kg 1000 878 1000 ug/kg 1000 879 50 ug/kg 1000 879 50 ug/kg 1000 879 50 ug/kg 1000 879 100 ug/kg 1000 | ND | 1/01 1H3104-MS1 1000 | 1/01 1H3104-MS1 ND | 101 113104-MS1 ND | 101 ND |

Melissa Evans Project Manager PKH0540 Page 15 of 34



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Report Number:

Number: PKH0540

Received: 08/30/01



VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------|---------------|-----------|-------|-------|-----------|---------|---------------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3104 Extracted: 08 | /31/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/10/01 | (P1H3104-MS1) | | | | Source: F | KH0540- | 01 | | | |
| cis-1,3-Dichloropropene | 732 | 100 | ug/kg | 1000 | ND | 73.2 | 60-125 | | | |
| trans-1,3-Dichloropropene | 680 | 100 | ug/kg | 1000 | ND | 68.0 | 50-130 | | | |
| Ethylbenzene | 837 | 100 | ug/kg | 1000 | ND | 83.7 | 70-125 | | | |
| Hexachlorobutadiene | 912 | 250 | ug/kg | 1000 | ND | 91.2 | 60-125 | | | |
| 2-Hexanone | 503 | 500 | ug/kg | 1000 | ND | 50.3 | 25-185 | | | |
| Iodomethane | 78 5 | 100 | ug/kg | 1000 | ND | 78.5 | 30-155 | | | |
| Isopropylbenzene | 865 | 100 | ug/kg | 1000 | ND | 86.5 | 70-135 | | | |
| p-Isopropyitoluene | 812 | 100 | ug/kg | 1000 | ND | 81.2 | 65-130 | | | |
| Methylene chloride | 742 | 500 | ug/kg | 1000 | ND | 74.2 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 500 | ug/kg | 1000 | ND | 47.5 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 72 7 | 250 | ug/kg | 1000 | ND | 72.7 | 55-135 | | | |
| Naphthalene | 534 | 250 | ug/kg | 1000 | ND | 53.4 | 45-155 | | | |
| n-Propylbenzene | 846 | 100 | ug/kg | 1000 | ND | 84.6 | 75-135 | | | |
| Styrene | 872 | 100 | ug/kg | 1000 | ND | 87.2 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 878 | 250 | ug/kg | 1000 | ND. | 87.8 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 594 | 100 | ug/kg | 1000 | ND. | 59.4 | 60-140 | | - | M2 |
| Tetrachloroethene | 873 | 100 | ug/kg | 1000 | ND | 87.3 | 65-130 | | | |
| Toluene | , 824 | 100 | ug/kg | 1000 | ND | 82.4 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 745 | 250 | ug/kg | 1000 | ND | 74.5 | 60-135 | | | - |
| 1,2,4-Trichlorobenzene | 835 | 250 | ug/kg | 1000 | ND | 83.5 | 55-135 | | | |
| 1,1,1-Trichloroethane | 789 | 100 | ug/kg | 1000 | ND | 78.9 | 65-135 | | | |
| 1,1,2-Trichloroethane | 699 | 100 | ug/kg | 1000 | ND | 69.9 | 65-130 | | | |
| Trichloroethene | 776 | 100 | ug/kg | 1000 | ND | 77.6 | 70-130 | | | |
| Trichlorofluoromethane | 764 | 250 | ug/kg | 1000 | ND | 76.4 | 10-200 | | | |
| 1,2,3-Trichloropropane | 540 | 500 | ug/kg | 1000 | ND | 54.0 | 60-150 | - | | M2 |
| 1,2,4-Trimethylbenzene | 847 | 100 | ug/kg | 1000 | ND | 84.7 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 824 | 100 | ug/kg | 1000 | ND | 82.4 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | | 25-130 | | | M2 . |
| Vinyl chloride | 277 | 250 | ug/kg | 1000 | ND | 27.7 | 10-200 | | | |
| Xylenes, Total | 2600 | 150 | ug/kg | 3000 | ND | 86.7 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 682 | | ug/kg | 625 | | 109 | 70-125 | | | |
| Surrogate: Toluene-d8 | 687 | | ug/kg | 625 | | 110 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 751 | | ug/kg | 625 | | 120 | <i>70-130</i> | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke Client Project ID:

70211-0-0152

%REC

Sampled: 08/29/01-08/30/01

Data

Received: 08/30/01

RPD

Report Number:

Reporting

PKH0540

Spike

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
|----------------------------------|----------------|-------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Batch: P1H3104 Extracted: 08 | /31/01 | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/10 | /01 (P1H3104-M | ISD1) | | | Source: F | KH0540- | 01 | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | ND | 46.7 | 5-200 | 13.6 | 35 | |
| Benzene | 802 | 50 | ug/kg | 1000 | ND | 80.2 | 65-130 | 6.04 | 35 | |
| Bromobenzene | 834 | 250 | ug/kg | 1000 | ND | 83.4 | 60-135 | 0.717 | 35 | |
| Bromochloromethane | 822 | 250 | ug/kg | 1000 | ND | 82.2 | 60-135 | 8.76 | 35 | |
| Bromodichloromethane | 776 | 100 | ug/kg | 1000 | ND | 77.6 | 30-135 | 0.776 | 35 | |
| Bromoform | 561 | 250 | ug/kg | 1000 | ND | 56.1 | 60-140 | 4.87 | 35 | M2 |
| Bromomethane | 712 | 250 | ug/kg | 1000 | ND | 71.2 | 10-200 | 10.7 | 35 | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | 1000 | ND | 40.6 | 10-160 | 14.2 | 35 | |
| n-Butylbenzene | 828 | 250 | ug/kg | 1000 | ND | 82.8 | 65-125 | 1.95 | 35 | |
| sec-Butylbenzene | 850 | 250 | ug/kg | 1000 | ND | 85.0 | 70-135 | 2.26 | 35 | |
| tert-Butylbenzene | 846 | 250 | ug/kg | 1000 | ND | 84.6 | 70-130 | 2.88 | 35. | |
| Carbon Disulfide | 625 | 250 | ug/kg | 1000 | ND | 62.5 | 20-120 | 4.75 | 35 | |
| Carbon tetrachloride | 830 | 250 | ug/kg | 1000 | ND | 83.0 | 70-140 | 8.81 | 35 | |
| Chlorobenzene | 886 | 50 | ug/kg | 1000 | ND | 88.6 | 75-125 | 1.59 | 35 | |
| Chloroethane | 681 | 250 | ug/kg | 1000 | ND | 68.1 | 10-200 | 2.53 | 35 | |
| Chloroform | 844 | 100 | ug/kg | 1000 | ND | 84.4 | 35-135 | 4.23 | 35 | |
| Chloromethane | 547 | 250 | ug/kg | 1000 | ND | 54.7 | 10-200 | 0.366 | 35 | |
| 2-Chlorotoluene | 848 | 250 | ug/kg | 1000 | ND | 84.8 | 70-135 | 3.11 | 35 | |
| 4-Chlorotoluene | 840 | 250 | ug/kg | 1000 | ND | 84.0 | 75-135 | 1.44 | 35 | |
| Dibromochloromethane | 712 | 100 | ug/kg | 1000 | ND | 71.2 | 35-135 | 4.80 | 35 | • |
| 1,2-Dibromo-3-chloropropane | 401 | 250 | ug/kg | 1000 | ND | 40.1 | 50-155 | 6.05 | 35 | M2 |
| 1,2-Dibromoethane (EDB) | 609 | 100 | ug/kg | 1000 | ND | 60.9 | 70-130 | 6.51 | 35 | M2 |
| Dibromomethane | 655 | 100 | ug/kg | 1000 | ND | 65.5 | 65-130 | 4.33 | 35 | |
| 1,2-Dichlorobenzene | 814 | 100 | ug/kg | 1000 | ND | 81.4 | 70-125 | 1.58 | 35 | |
| 1,3-Dichlorobenzene | 875 | 100 | ug/kg | 1000 | ND | 87.5 | 70-125 | 0.803 | 35 | |
| 1,4-Dichlorobenzene | 885 | 100 | ug/kg | 1000 | ND | 88.5 | 70-135 | 1.14 | 35 | |
| Dichlorodifluoromethane | 343 | 250 | ug/kg | 1000 | ND | 34.3 | 10-185 | 18.3 | 35 | |
| 1,1-Dichloroethane | 817 | 100 | ug/kg | 1000 | ND | 81.7 | 60-140 | 6.70 | 35 | |
| 1,2-Dichloroethane | 684 | 50 | ug/kg | 1000 | ND | 68.4 | 55-135 | 2.17 | 35 | |
| 1,1-Dichloroethene | 7 54 | 250 | ug/kg | 1000 | ND | 75.4 | 55-145 | 5.17 | 35 | |
| cis-1,2-Dichloroethene | 823 | 100 | ug/kg | 1000 | ND | 82.3 | 60-125 | 2.83 | 35 | |
| trans-1,2-Dichloroethene | 814 | 100 | ug/kg | 1000 | ND | 81.4 | 70-145 | 8.18 | 35 | |
| 1,2-Dichloropropane | 780 | 100 | ug/kg | 1000 | ND | 78.0 | 65-130 | 0.512 | 35 | |
| 1,3-Dichloropropane | 671 | 100 | ug/kg | 1000 | ND | 67.1 | 65-130 | 4.09 | 35 | |
| 2,2-Dichloropropane | 983 | 100 | ug/kg | 1000 | ND | 98.3 | 60-135 | 7.60 | 35 | |
| 1,1-Dichloropropene | 791 | 100 | ug/kg | 1000 | ND | 79.1 | 65-130 | 7.48 | 35 | • |
| | | | | | | | | | | |

Melissa Evans Project Manager

PKH0540 Page 17 of 34



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

Report Number:

PKH0540

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3104 Extracted: 08/31 | /01 | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/10/01 | (P1H3104-M | ISD1) | | | Source: P | KH0540- | 01 | | | |
| cis-1,3-Dichloropropene | 729 | 100 | ug/kg | 1000 | ND | 72.9 | 60-125 | 0.411 | 35 | |
| trans-1,3-Dichloropropene | 658 | 100 | ug/kg | 1000 | ND | 65.8 | 50-130 | 3.29 | 35 | |
| Ethylbenzene | 870 | 100 | ug/kg | 1000 | ND | 87.0 | 70-125 | 3.87 | 35 | |
| Hexachlorobutadiene | 939 | 250 | ug/kg | 1000 | ND | 93.9 | 60-125 | 2.92 | 35 | |
| 2-Hexanone | ND | 500 | ug/kg | 1000 | ND | 42.4 | 25-185 | 17.0 | 35 | |
| Iodomethane | 833 | 100 | ug/kg | 1000 | ND | 83.3 | 30-155 | 5.93 | 35 | |
| Isopropylbenzene | 886 | 100 | ug/kg | 1000 | ND | 88.6 | 70-135 | 2.40 | 35 | |
| p-Isopropyltoluene | 820 | 100 | ug/kg | 1000 | ND | 82.0 | 65-130 | 0.980 | 35 | |
| Methylene chloride | 763 | 500 | ug/kg | 1000 | ND | 76.3 | 60-140 | 2.79 | 35 | |
| 4-Methyl-2-pentanone (M1BK) | ND | 500 | ug/kg | 1000 | ND | 41.2 | 10-175 | 14.2 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 709 | 250 | ug/kg | 1000 | ND | 70.9 | 55-135 | 2.51 | 35 | |
| Naphthalene | 483 | 250 | ug/kg | 1000 | ND | 48.3 | 45-155 | 10.0 | 35 | |
| n-Propylbenzene | 873 | 100 | ug/kg | 1000 | ND | 87.3 | 75-135 | 3.14 | 35 | |
| Styrene | 863 | 100 | ug/kg | 1000 | ND | 86.3 | 70-130 | 1.04 | 35 | |
| 1,1,1,2-Tetrachloroethane | 872 | 250 | ug/kg | 1000 | ND | 87.2 | 70-130 | 0.686 | 35 | |
| 1,1,2,2-Tetrachloroethane | 540 | 100 | ug/kg | 1000 | ND | 54.0 | 60-140 | 9.52 | 35 | M2 |
| Tetrachloroethene | 889 | 100 | ug/kg | 1000 | ND | 88.9 | 65-130 | 1.82 | 35 | |
| Toluene | 838 | 100 | ug/kg | 1000 | ND | 83.8 | 70-125 | 1.68 | 35 | |
| 1,2,3-Trichlorobenzene | 704 | 250 | ug/kg | 1000 | ND | 70.4 | 60-135 | 5.66 | 35 | |
| 1,2,4-Trichlorobenzene | 805 | 250 | ug/kg | 1000 | ND | 80.5 | 55-135 | 3.66 | 35 | |
| 1,1,1-Trichloroethane | 846 | 100 | ug/kg | 1000 | ND | 84.6 | 65-135 | 6.97 | 35 | |
| 1,1,2-Trichloroethane | 658 | 100 | ug/kg | 1000 | ND | 65.8 | 65-130 | 6.04 | 35 | |
| Trichloroethene | 825 | 100 | ug/kg | 1000 | ND | 82.5 | 70-130 | 6.12 | 35 | |
| Trichlorofluoromethane | 781 | 250 | ug/kg | 1000 | ND | 78.1 | 10-200 | 2.20 | 35 | |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | 1000 | ND | 48.9 | 60-150 | 9.91 | 35 | M2 |
| 1,2,4-Trimethylbenzene | 871 | 100 | ug/kg | 1000 | ND | 87.1 | 75-130 | 2.79 | 35 | |
| 1,3,5-Trimethylbenzene | 843 | 100 | ug/kg | 1000 | ND | 84.3 | 70-130 | 2.28 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | | 25-130 | | 35 | M2 - |
| Vinyl chloride | 283 | 250 | ug/kg | 1000 | ND | 28.3 | 10-200 | 2.14 | 35 | |
| Xylenes, Total | 2660 | 150 | ug/kg | 3000 | ND | 88.7 | 70-130 | 2.28 | 35 | • |
| Surrogate: Dibromofluoromethane | 736 | | ug/kg | 625 | | 118 | 70-125 | | 55 | |
| Surrogate: Toluene-d8 | 730 | | ug/kg | 625 | | 117 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 812 | | ug/kg | 625 | | . 130 | 70-130 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Jim Clarke Attention:

Client Project ID:

70211-0-0152

%REC

Sampled: 08/29/01-08/30/01

Received: 08/30/01

RPD

Data

Report Number:

Reporting

PKH0540

15110011(0)0011#4**3**434(0)05034#5

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Spike

Source

| | | Tropor time | | Spine | Source | | /UI-C | | 242 27 | Data | |
|------------------------------------|------------|-------------|-------|-------|--------|------|--------|-----|--------|------------|--|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers | |
| Batch: P1I1002 Extracted: 09/09 | <u>/01</u> | | | | | | | | | | |
| Blank Analyzed: 09/09/01 (P1I1002- | BLK1) | | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | • | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | , | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | • | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | | |
| | | | - | | | | | | | | |

Melissa Evans Project Manager

PKH0540 Page 19 of 34



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

Report Number:

PKH0540

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/09 | <u>/01</u> | | | | | | | | • | |
| Blank Analyzed: 09/09/01 (P1I1002- | | | | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| lodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND. | 2.0 | ug/l | | | | | | | * |
| p-lsopropyltoluene | ND | 2.0 | ug/Î | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | 100 |
| 1,1,2-Trichloroethane | ND · | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | • | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND . | 25 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | , 10 | ug/l | | | | | | | |
| Surrogate: Dibromofluoromethane | 27.9 | | ug/l | 25.0 | | 112 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.5 | | ug/l | 25.0 | | 106 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.4 | | ug/l | 25.0 | | 106 | 80-120 | | | |

Melissa Evans Project Manager

PKH0540 Page 20 of 34



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Report Number:

Reporting

PKH0540

Received: 08/30/01

RPD

Data

Apprication and the contraction of the contraction

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Spike

Source

%REC

| | | Keboi ung | | Spike | Sour ce | | OREC | | KI D | Data | |
|------------------------------------|--------|-----------|--------|-------|---------|------|--------|-----|-------|------------|--|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers | |
| Batch: P1I1002 Extracted: 09/09/ | 01 | | | | | | | | | | |
| LCS Analyzed: 09/09/01 (P1I1002-BS | S1) | | | | | | | | | | |
| Acetone | 28.0 | 20 | ug/l | 25.0 | | 112 | 30-200 | | | | |
| Benzene | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | | |
| Bromobenzene | 25.1 | 5.0 | ug/l | 25.0 | | 100 | 80-120 | | | | |
| Bromochloromethane | 28.3 | 5.0 | ug/l | 25.0 | | 113 | 80-120 | | | | |
| Bromodichloromethane | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 80-130 | | | | |
| Bromoform | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 60-140 | | | | |
| Bromomethane | 28.5 | 5.0 | ug/l | 25.0 | | 114 | 60-150 | | | | |
| 2-Butanone (MEK) | 28.9 | 10 | ug/l | 25.0 | | 116 | 30-185 | | | | |
| n-Butylbenzene | 24.6 | 5.0 | ug/l | 25.0 | | 98.4 | 75-130 | | | | |
| sec-Butylbenzene | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 80-125 | | | | |
| tert-Butylbenzene | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 80-120 | | | | |
| Carbon Disulfide | 23.0 | 5.0 | ug/l | 25.0 | | 92.0 | 65-120 | | | | |
| Carbon tetrachloride | 28.8 | 5.0 | ug/l | 25.0 | | 115 | 75-150 | | | | |
| Chlorobenzene | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | | |
| Chloroethane | 24.9 | 5.0 | ug/I | 25.0 | | 99.6 | 80-125 | | | | |
| Chloroform | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | | |
| Chloromethane | 21.7 | 5.0 | ug/l | 25.0 | | 86.8 | 60-125 | | | | |
| 2-Chlorotoluene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 80-120 | | | | |
| 4-Chlorotoluene | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 80-120 | | | | |
| Dibromochloromethane | 28.1 | 2.0 | ug/l | 25.0 | | 112 | 70-150 | | | | |
| 1,2-Dibromo-3-chloropropane | 24.3 | 5.0 | ug/I | 25.0 | | 97.2 | 50-145 | | | | |
| 1,2-Dibromoethane (EDB) | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 75-120 | | | | |
| Dibromomethane | 26.3 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | | |
| 1,2-Dichlorobenzene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | | |
| 1,3-Dichlorobenzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | | |
| 1,4-Dichlorobenzene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | | |
| Dichlorodifluoromethane | 23.0 | 5.0 | · ug/l | 25.0 | | 92.0 | 25-140 | | | | |
| 1,1-Dichloroethane | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | , | |
| 1,2-Dichloroethane | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | | |
| 1,1-Dichloroethene | 26.2 | 5.0 | ug/l | 25.0 | | 105 | 80-120 | | • | | |
| cis-1,2-Dichloroethene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | • | |
| trans-1,2-Dichloroethene | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 80-120 | | | | |
| 1,2-Dichloropropane | 25.2 | 2.0 | ug/l | 25.0 | * | 101 | 80-120 | | . • | | |
| 1,3-Dichloropropane | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | | |
| 2,2-Dichloropropane | 30.2 | 2.0 | ug/l | 25.0 | | 121 | 75-135 | | | | |
| 1,1-Dichloropropene | 25.8 | 2,0 | ug/l | 25.0 | | 103 | 80-120 | | | | |
| 1 . | | | - | | | | | | | | |

Melissa Evans Project Manager PKH0540 Page 21 of 34



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Report Number:

PKH0540

Sampled: 08/29/01-08/30/01

Received: 08/30/01

METHODBIANKOC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/09/01 | <u>L</u> | | | | | | | | | |
| LCS Analyzed: 09/09/01 (P1I1002-BS1) |) | | | | | | | | | |
| cis-1,3-Dichloropropene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| trans-1,3-Dichloropropene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Ethylbenzene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| Hexachlorobutadiene | 22.3 | 5.0 | ug/l | 25.0 | | 89.2 | 60-145 | | | |
| 2-Hexanone | 27.8 | 10 | ug/l | 25.0 | | 111 | 50-170 | | | |
| Iodomethane | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 40-155 | | | |
| Isopropylbenzene | 26.8 | 2.0 | ug/l | 25.0 | • | 107 | 80-120 | | | |
| p-Isopropyltoluene | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 80-120 | | | |
| Methylene chloride | 26.9 | 5.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 25.8 | 10 | ug/l | 25.0 | | 103 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.4 | 5.0 | ug/l | 25.0 | | 114 | 75-135 | | | |
| Naphthalene | 22.6 | 5.0 | ug/l | 25.0 | | 90.4 | 70-130 | | | • |
| n-Propylbenzene | 25.7 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| Styrene | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 27.9 | 5.0 | ug/l | 25.0 | | 112 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Tetrachloroethene | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 80-125 | | | |
| Toluene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 22.4 | 5.0 | ug/l | 25.0 | | 89.6 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 23.8 | 5.0 | ug/l | 25.0 | | 95.2 | 80-120 | | * * * | |
| 1,1,1-Trichloroethane | 27.5 | 2.0 | ug/l | 25.0 | • | 110 | 80-120 | • | | |
| 1,1,2-Trichloroethane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Trichloroethene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | • |
| Trichlorofluoromethane | 30.4 | 5.0 | ug/l | 25.0 | | 122 | 75-150 | | | |
| 1,2,3-Trichloropropane | 23.8 | 10 | ug/l | 25.0 | | 95.2 | 65-135 | | | |
| 1,2,4-Trimethylbenzene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 80-120 | | | |
| Vinyl acetate | 29.8 | 25 | ug/l | 25.0 | | 119 | 40-120 | | | |
| Vinyl chloride | 28.8 | 5.0 | ug/l | 25.0 | | 115 | 80-120 | | | |
| Xylenes, Total | 77.9 | 10 | ug/l | 75.0 | | 104 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 28.8 | | ug/l | 25.0 | | 115 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.6 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.1 | | ug/l | 25.0 | | 104 | 80-120 | | | • |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

PKH0540 Report Number:

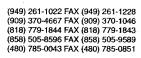
Received: 08/30/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------|--------------|-----------|-------|-------|--------|------|--------|-------|-------|---------------------------------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 0 | 9/09/01 | | | | | | | | | |
| LCS Dup Analyzed: 09/09/01 (P | 1I1002-BSD1) | | | | | | | | | |
| Acetone | 31.0 | 20 | ug/l | 25.0 | | 124 | 30-200 | 10.2 | 20 | |
| Benzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 0.399 | 20 | |
| Bromobenzene | 25.7 | 5.0 | ug/l | 25.0 | | 103 | 80-120 | 2.36 | 20 | |
| Bromochloromethane | 29.1 | 5.0 | ug/l | 25.0 | | 116 | 80-120 | 2.79 | 20 | |
| Bromodichloromethane | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 80-130 | 0.743 | 20 | |
| Bromoform | 28.0 | 5.0 | ug/l | 25.0 | | 112 | 60-140 | 3.27 | 20 | |
| Bromomethane | 28.0 | 5.0 | ug/l | 25.0 | | 112 | 60-150 | 1.77 | 20 | |
| 2-Butanone (MEK) | 29.4 | 10 | ug/l | 25.0 | | 118 | 30-185 | 1.72 | 20 | |
| n-Butylbenzene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 75-130 | 0.810 | 20 | |
| sec-Butylbenzene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 80-125 | 0.401 | 20 | |
| tert-Butylbenzene | 24.6 | 5.0 | ug/l | 25.0 | | 98.4 | 80-120 | 0.406 | 20 | |
| Carbon Disulfide | 22.2 | 5.0 | ug/l | 25.0 | | 88.8 | 65-120 | 3.54 | 20 | e e e e e e e e e e e e e e e e e e e |
| Carbon tetrachloride | 28.2 | 5.0 | ug/l | 25.0 | | 113 | 75-150 | 2.11 | 20 | |
| Chlorobenzene | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 0.00 | 20 | |
| Chloroethane | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 80-125 | 0.806 | 20 | |
| Chloroform | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 1.49 | 20 | |
| Chloromethane | 21.4 | 5.0 | ug/l | 25.0 | | 85.6 | 60-125 | 1.39 | 20 | |
| 2-Chlorotoluene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 80-120 | 0.00 | 20 | |
| 4-Chlorotoluene | 25.1 | 5.0 | ug/l | 25.0 | | 100 | 80-120 | 1.61 | 20 | |
| Dibromochloromethane | 28.7 | 2.0 | ug/l | 25.0 | | 115 | 70-150 | 2.11 | 20 | |
| 1,2-Dibromo-3-chloropropane | 24.5 | 5.0 | ug/l | 25.0 | | 98.0 | 50-145 | 0.820 | 20 | |
| 1,2-Dibromoethane (EDB) | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 75-120 | 3.77 | 20 | |
| Dibromomethane | 28.2 | 2.0 | ug/l | 25.0 | | 113 | 80-120 | 6.97 | 20 | |
| 1,2-Dichlorobenzene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 2.73 | 20 | |
| 1,3-Dichlorobenzene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.58 | 20 | |
| 1,4-Dichlorobenzene | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 1.53 | 20 | |
| Dichlorodifluoromethane | 21.8 | 5.0 | ug/l | 25.0 | | 87.2 | 25-140 | 5.36 | 20 | |
| 1,1-Dichloroethane | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 0.00 | 20 | |
| 1,2-Dichloroethane | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 80-120 | 4.44 | 20 | |
| 1,1-Dichloroethene | 25.5 | 5.0 | ug/l | 25.0 | | 102 | 80-120 | 2.71 | 20 | |
| cis-1,2-Dichloroethene | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 2.64 | 20 | |
| trans-1,2-Dichloroethene | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 2.99 | 20 | • |
| 1,2-Dichloropropane | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 2.35 | 20 | |
| 1,3-Dichloropropane | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 3.45 | 20 | |
| 2,2-Dichloropropane | 28.0 | 2.0 | ug/l | 25.0 | | 112 | 75-135 | 7.56 | 20 | • |
| 1,1-Dichloropropene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.17 | 20 | |
| 3 | | | | | | | | | | |

Melissa Evans Project Manager

PKH0540 Page 23 of 34





Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

Report Number:

PKH0540

| | • | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|---------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/09/ | 01 | | | | | | | | | |
| LCS Dup Analyzed: 09/09/01 (P1I100 | 2-BSD1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 1.52 | 20 | |
| trans-1,3-Dichloropropene | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 0.391 | 20 | |
| Ethylbenzene | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 0.772 | 20 | |
| Hexachlorobutadiene | 23.1 | 5.0 | ug/l | 25.0 | | 92.4 | 60-145 | 3.52 | 20 | |
| 2-Hexanone | 28.2 | 10 | ug/l | 25.0 | | 113 | 50-170 | 1.43 | 20 | |
| Iodomethane | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 40-155 | 0.00 | 20 . | |
| Isopropylbenzene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | 2.26 | 20 | |
| p-Isopropyltoluene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | 0.826 | 20 | |
| Methylene chloride | 27.8 | 5.0 | ug/l | 25.0 | | 111 | 80-120 | 3.29 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 27.0 | 10 | ug/l | 25.0 | | 108 | 70-140 | 4.55 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 28.1 | 5.0 | ug/l | 25.0 | | 112 | 75-135 | 1.06 | 20 | |
| Naphthalene | 23.7 | 5.0 | ug/l | 25.0 | | 94.8 | 70-130 | 4.75 | 20 | |
| n-Propylbenzene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.17 | 20 | |
| Styrene | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 0.00 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.3 | 5.0 | ug/l | 25.0 | | 113 | 65-150 | 1.42 | 20 | |
| 1,1,2,2-Tetrachloroethane | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | 2.73 | 20 | |
| Tetrachloroethene | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 80-125 | 0.370 | 20 | |
| Toluene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 0.394 | 20 | |
| 1,2,3-Trichlorobenzene | 24.0 | 5.0 | ug/i | 25.0 | | 96.0 | 75-125 | 6.90 | 20 | |
| 1,2,4-Trichlorobenzene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 80-120 | 5.71 | 20 | |
| 1,1,1-Trichloroethane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 2.21 | 20 | |
| 1,1,2-Trichloroethane | 26.7 | 2.0 | ug/l | 25.0 | | 107 | 80-120 | 4.99 | 20 | - |
| Trichloroethene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 2.39 | 20 | |
| Trichlorofluoromethane | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 75-150 | 11.5 | 20 | |
| 1,2,3-Trichloropropane | 24.6 | 10 | ug/l | 25.0 | | 98.4 | 65-135 | 3.31 | 20 | |
| 1,2,4-Trimethylbenzene | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.18 | 20 | |
| 1,3,5-Trimethylbenzene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 0.404 | 20 | |
| Vinyl acetate | 30.0 | 25 | ug/l | 25.0 | | 120 | 40-120 | 0.669 | 20 | |
| Vinyl chloride | 26.2 | 5.0 | ug/l | 25.0 | | 105 | 80-120 | 9.45 | 20 | |
| Xylenes, Total | 77.6 | 10 | ug/l | 75.0 | | 103 | 80-120 | 0.386 | 20 | |
| Surrogate: Dibromofluoromethane | 29.2 | | ug/l | 25.0 | | 117 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.6 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.3 | | ug/l | 25.0 | | 105 | 80-120 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

Report Number:

PKH0540

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| • • | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------|---------------|-----------|-------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/ | 09/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/09/01 | (P1I1002-MS1) | | | | Source: I | PKH0535- | 02 | | | |
| Acetone | ND | 20 | ug/I | 25.0 | ND | 41.6 | 5-200 | | | |
| Benzene | 23.4 | 2.0 | ug/I | 25.0 | ND | 93.6 | 80-120 | | | |
| Bromobenzene | 24.0 | 5.0 | ug/l | 25.0 | ND | 96.0 | 80-120 | | | |
| Bromochloromethane | 24.4 | 5.0 | ug/l | 25.0 | ND | 97.6 | 60-135 | | | |
| Bromodichloromethane | 25. 7 | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |
| Bromoform | 20.2 | 5.0 | ug/l | 25.0 | ND | 80.8 | 40-140 | | | |
| Bromomethane | 11.9 | 5.0 | ug/l | 25.0 | ND | 47.6 | 25-165 | | | |
| 2-Butanone (MEK) | 12.1 | 10 | ug/l | 25.0 | ND | 48.4 | 10-160 | | | |
| n-Butylbenzene | 21.8 | 5.0 | ug/l | 25.0 | ND | 87.2 | 75-135 | | | |
| sec-Butylbenzene | 22.4 | 5.0 | ug/l | 25.0 | ND | 89.6 | 80-135 | | | |
| tert-Butylbenzene | 23.0 | 5.0 | ug/I | 25.0 | ND | 92.0 | 80-125 | | | |
| Carbon Disulfide | 10.5 | 5.0 | ug/l | 25.0 | ND | 42.0 | 20-120 | | | |
| Carbon tetrachloride | 26.7 | 5.0 | ug/l | 25.0 | ND | 107 | 80-145 | | | |
| Chłorobenzene | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| Chloroethane | 15.5 | 5.0 | ug/l | 25.0 | ND | 62.0 | 30-150 | | | |
| Chloroform | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 80-125 | | | |
| Chloromethane | 6.06 | 5.0 | ug/l | 25.0 | ND | 24.2 | 15-140 | | | |
| 2-Chlorotoluene | 23.9 | 5.0 | ug/l | 25.0 | ND | 95.6 | 80-124 | | | |
| 4-Chlorotoluene | 23.7 | 5.0 | ug/l | 25.0 | ND | 94.8 | 80-125 | | | |
| Dibromochloromethane | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 75-135 | | | |
| 1,2-Dibromo-3-chloropropane | 13.7 | 5.0 | ug/l | 25.0 | ND | 54.8 | 25-185 | | | |
| 1,2-Dibromoethane (EDB) | 21.8 | 2.0 | ug/I | 25.0 | ND | 87.2 | 45-145 | | | |
| Dibromomethane | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 55-140 | | | |
| 1,2-Dichlorobenzene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 80-120 | | | |
| 1,3-Dichlorobenzene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 80-120 | | | |
| 1,4-Dichlorobenzene | 24.4 | 2.0 | ug/i | 25.0 | ND . | 97.6 | 80-120 | | | |
| Dichlorodifluoromethane | 10.0 | 5.0 | ug/l | 25.0 | ND | 40.0 | 25-145 | | | |
| 1,1-Dichloroethane | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 75-120 | | | |
| 1,2-Dichloroethane | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 60-135 | | | |
| 1,1-Dichloroethene | 20.1 | 5.0 | ug/l | 25.0 | ND | 80.4 | 55-120 | | | |
| cis-1,2-Dichloroethene | 32.8 | 2.0 | ug/l | 25.0 | 9.3 | 94.0 | 75-120 | | * * | |
| trans-1,2-Dichloroethene | 21.2 | 2.0 | ug/l | 25.0 | ND | 84.8 | 65-120 | | | |
| 1,2-Dichloropropane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 80-125 | | | |
| 1,3-Dichloropropane | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 55-140 | | | |
| 2,2-Dichloropropane | 29.4 | 2.0 | ug/l | 25.0 | ND | 118 | 45-165 | | | |
| 1,1-Dichloropropene | 23.5 | 2.0 | ug/l | 25.0 | ND . | 94.0 | 80-120 | | | • |
| | | | - | | | | | | | |

Melissa Evans Project Manager

PKH0540 Page 25 of 34



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering
4634 S. 36th Place
Phoenix A 7 85040

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number: PKH0540

....METHODIBLANKQCDATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------|---------------|-----------|-------|-------|-----------|---------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09 | 0/09/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/09/01 | (P1I1002-MS1) | | | | Source: F | KH0535- | 02 | | • | |
| cis-1,3-Dichloropropene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | | | |
| trans-1,3-Dichloropropene | 21.4 | 2.0 | ug/l | 25.0 | ND | 85.6 | 70-120 | | | |
| Ethylbenzene | 25.9 | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| Hexachlorobutadiene | 18.1 | 5.0 | ug/l | 25.0 | ND | 72.4 | 80-135 | | | M2 |
| 2-Hexanone | 14.8 | 10 | ug/l | 25.0 | ND | 59.2 | 25-185 | | | |
| lodomethane | 17.3 | 2.0 | ug/l | 25.0 | ND | 69.2 | 30-155 | | | |
| Isopropylbenzene | 25.9 | 2.0 | ug/l | 25.0 | ND | 104 | 80-125 | | | |
| p-Isopropyltoluene | 21.6 | 2.0 | ug/l | 25.0 | ND | 86.4 | 80-125 | | | |
| Methylene chloride | 20.1 | 5.0 | ug/l | 25.0 | ND | 80.4 | 55-125 | | | |
| 4-Methyl-2-pentanone (MIBK) | 18.5 | 10 | ug/l | 25.0 | ND | 74.0 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.2 | 5.0 | ug/l | 25.0 | ND | 92.8 | 55-135 | | | |
| Naphthalene | 12.9 | 5.0 | ug/l | 25.0 | ND | 51.6 | 15-160 | | | |
| n-Propylbenzene | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 80-130 | | | |
| Styrene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 60-135 | | | • |
| 1,1,1,2-Tetrachloroethane | 26.5 | 5.0 | ug/l | 25.0 | ND | 106 | 80-135 | | | |
| 1,1,2,2-Tetrachloroethane | 14.9 | 2.0 | ug/l | 25.0 | ND | 59.6 | 35-150 | - | | |
| Tetrachloroethene | 28.0 | 2.0 | ug/l | 25.0 | ND | 112 | 80-120 | | | |
| Toluene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 14.8 | 5.0 | ug/l | 25.0 | ND | 59.2 | 45-145 | | | |
| 1,2,4-Trichlorobenzene | 18.8 | 5.0 | ug/l | 25.0 | ND | 75.2 | 65-130 | | | |
| 1,1,1-Trichloroethane | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | | | |
| 1,1,2-Trichloroethane | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 55-145 | | , | • |
| Trichloroethene | 28.3 | 2.0 | ug/l | 25.0 | ND | 113 | 80-120 | | | |
| Trichlorofluoromethane | 24.3 | 5.0 | ug/l | 25.0 | ND | 97,2 | 70-145 | | | |
| 1,2,3-Trichloropropane | 17.5 | 10 | ug/l | 25.0 | ND | 70.0 | 20-160 | | | |
| 1,2,4-Trimethylbenzene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 70-135 | | | |
| 1,3,5-Trimethylbenzene | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 80-125 | | | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | ND | | 25-130 | | | N2 |
| Vinyl chloride | 13.0 | 5.0 | ug/l | 25.0 | ND | 52.0 | 25-135 | | | |
| Xylenes, Total | 77.0 | 10 | ug/l | 75.0 | ND | 103 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 24.4 | | ug/l | 25.0 | | 97.6 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.8 | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 25.6 | * | ug/l | 25.0 | | 102 | 80-120 | | | |



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A. Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0152

%REC

Source

Spike

Sampled: 08/29/01-08/30/01

Received: 08/30/01

RPD

Data

Report Number:

Reporting

PKH0540

Algeriti) bar este et og en de le le le

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
|-------------------------------|--------------------|-------|--------|-------|-----------|---------|--------|-------|-------|------------|
| Batch: P1I1002 Extracted: (| 09/09/01 | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09 | /09/01 (P1I1002-MS | SD1) | | | Source: F | КН0535- | 02 | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 62.4 | 5-200 | 40.0 | 20 | R4 |
| Benzene | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 80-120 | 1.29 | 20 | |
| Bromobenzene | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 80-120 | 2.96 | 20 | |
| Bromochioromethane | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 60-135 | 2.03 | 20 | |
| Bromodichloromethane | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | 1.17 | 20 | |
| Bromoform | 23.4 | 5.0 | ug/l | 25.0 | ND | 93.6 | 40-140 | 14.7 | 20 | |
| Bromomethane | 12.6 | 5.0 | ug/l | 25.0 | ND | 50.4 | 25-165 | 5.71 | 20 | |
| 2-Butanone (MEK) | 14.0 | 10 | ug/l | 25.0 | ND | 56.0 | 10-160 | 14.6 | 20 | * |
| n-Butylbenzene | 21.9 | 5.0 | ug/l | 25.0 | ND | 87.6 | 75-135 | 0.458 | 20 | |
| sec-Butylbenzene | 22.2 | 5.0 | ug/l | 25.0 | ND | 88.8 | 80-135 | 0.897 | 20 | |
| tert-Butylbenzene | 22.3 | 5.0 | ug/l | 25.0 | ND | 89.2 | 80-125 | 3.09 | 20 | |
| Carbon Disulfide | 10.6 | 5.0 | ug/l | 25.0 | ND | 42.4 | 20-120 | 0.948 | 20 | |
| Carbon tetrachloride | 27.1 | 5.0 | ug/l | 25.0 | ND | 108 | 80-145 | 1.49 | 20 | |
| Chlorobenzene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | 1.55 | 20 | |
| Chloroethane | 15.9 | 5.0 | ug/l | 25.0 | ND | 63.6 | 30-150 | 2.55 | 20 | |
| Chloroform | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 80-125 | 0.784 | 20 | |
| Chloromethane | 6.17 | 5.0 | ug/l | 25.0 | ND | 24.7 | 15-140 | 1.80 | 20 | |
| 2-Chlorotoluene | 23.1 | 5.0 | ug/l | 25.0 | ND | 92.4 | 80-124 | 3.40 | 20 | |
| 4-Chlorotoluene | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 80-125 | 0.847 | 20 | |
| Dibromochloromethane | 25.7 | 2.0 | ug/l | 25.0 | ND | 103 | 75-135 | 6.01 | 20 | • |
| 1,2-Dibromo-3-chloropropane | 18.8 | 5.0 | ug/l | 25.0 | ND | 75.2 | 25-185 | 31.4 | 20 | R4 |
| 1,2-Dibromoethane (EDB) | 24.0 | 2.0 | ug/I | 25.0 | ND | 96.0 | 45-145 | 9.61 | 20 | |
| Dibromomethane | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 55-140 | 4.63 | 20 | |
| 1,2-Dichlorobenzene | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 80-120 | 0.855 | 20 | |
| 1,3-Dichlorobenzene | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 80-120 | 0.851 | 20 | |
| 1,4-Dichlorobenzene | 24.0 | 2.0 | ug/I | 25.0 | ND | 96.0 | 80-120 | 1.65 | 20 | |
| Dichlorodifluoromethane | 9.65 | 5.0 | ug/l | 25.0 | ND | 38.6 | 25-145 | 3.56 | 20 | |
| 1,1-Dichloroethane | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 75-120 | 1.27 | 20 | |
| 1,2-Dichloroethane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 60-135 | 5.02 | 20 | |
| 1,1-Dichloroethene | 20.0 | 5.0 | ug/l | 25.0 | ND | 80.0 | 55-120 | 0.499 | 20 | |
| cis-1,2-Dichloroethene | 32.6 | 2.0 | ug/l | 25.0 | 9.3 | 93.2 | 75-120 | 0.612 | 20 | |
| trans-1,2-Dichloroethene | 21.3 | 2.0 | ug/l | 25.0 | ND | 85.2 | 65-120 | 0.471 | 20 | |
| 1,2-Dichloropropane | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 80-125 | 0.820 | 20 | |
| 1,3-Dichloropropane | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 55-140 | 8.35 | 20 | |
| 2,2-Dichloropropane | 27.3 | 2.0 | ug/l | 25.0 | ND | 109 | 45-165 | 7.41 | 20 | |
| 1,1-Dichloropropene | 23.6 | 2.0 | · ug/l | 25.0 | ND | 94.4 | 80-120 | 0.425 | 20 | *. |
| | | | | | | | | | | |

Melissa Evans Project Manager

PKH0540 Page 27 of 34



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Report Number: PKH0540 Received: 08/30/01

— METHOD BLANKOC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|----------------------------------|----------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/0 | <u> 19/01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/09 | /01 (P1I1002-M | SD1) | | | Source: P | KH0535- | 02 | | | |
| cis-1,3-Dichloropropene | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 80-120 | 0.412 | 20 | |
| trans-1,3-Dichloropropene | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 70-120 | 5.45 | 20 | |
| Ethylbenzene | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | 0.385 | 20 | |
| Hexachlorobutadiene | 19.7 | 5.0 | ug/l | 25.0 | ND | 78.8 | 80-135 | 8.47 | 20 | M2 |
| 2-Hexanone | 20.4 | 10 | ug/l | 25.0 | ND | 81.6 | 25-185 | 31.8 | 20 | R4 |
| Iodomethane | 17.3 | 2.0 | ug/l | 25.0 | ND | 69.2 | 30-155 | 0.00 | 20 | |
| Isopropylbenzene | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 80-125 | 0.385 | 20 | |
| p-Isopropyltoluene | 21.2 | 2.0 | ug/l | 25.0 | ND | 84.8 | 80-125 | 1.87 | 20 | |
| Methylene chloride | 19.7 | 5.0 | ug/l | 25.0 | ND | 78.8 | 55-125 | 2.01 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 24.2 | 10 | ug/l | 25.0 | ND | 96.8 | 10-175 | 26.7 | 20 | R4 |
| Methyl-tert-butyl Ether (MTBE) | 23.9 | 5.0 | ug/l | 25.0 | ND | 95.6 | 55-135 | 2.97 | 20 | |
| Naphthalene | 17.4 | 5.0 | ug/l | 25.0 | ND | 69.6 | 15-160 | 29.7 | 20 | R4 |
| n-Propylbenzene | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 80-130 | 3.68 | 20 | |
| Styrene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 60-135 | 0.823 | 20 | |
| 1,1,1,2-Tetrachloroethane | 26.5 | 5.0 | ug/l | 25.0 | ND | 106 | 80-135 | 0.00 | 20 | |
| 1,1,2,2-Tetrachloroethane | 16.7 | 2.0 | ug/l | 25.0 | ND | 66.8 | 35-150 | 11.4 | 20 | |
| Tetrachloroethene | 27.7 | 2.0 | ug/l | 25.0 | ND | 111 | 80-120 | 1.08 | 20 | |
| Toluene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | 0.823 | 20 | |
| 1,2,3-Trichlorobenzene | 17.7 | 5.0 | ug/l | 25.0 | ND | 70.8 | 45-145 | 17.8 | 20 | |
| 1,2,4-Trichlorobenzene | 20.8 | 5.0 | ug/l | 25.0 | ND | 83.2 | 65-130 | 10.1 | 20 | |
| 1,1,1-Trichloroethane | 26.5 | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | 0.378 | 20 | |
| 1,1,2-Trichloroethane | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 55-145 | 6.11 | 20 | |
| Trichloroethene | 29.5 | 2.0 | ug/l | 25.0 | ND | 118 | 80-120 | 4.15 | 20 | |
| Trichlorofluoromethane | 23.7 | 5.0 | ug/l | 25.0 | ND | 94.8 | 70-145 | 2.50 | 20 | |
| 1,2,3-Trichloropropane | 21.3 | 10 | ug/l | 25.0 | ND | 85.2 | 20-160 | 19.6 | 20 | |
| 1,2,4-Trimethylbenzene | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-135 | 0.428 | 20 | |
| 1,3,5-Trimethylbenzene | 22.8 | 2.0 | ug/l | 25.0 | ND | 91.2 | 80-125 | 1.74 | 20 | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | ND | 50.4 | 25-130 | | 20 | |
| Vinyl chloride | 13.4 | 5.0 | ug/l | 25.0 | ND | 53.6 | 25-135 | 3.03 | 20 | |
| Xylenes, Total | 77.8 | 10 | ug/l | 75.0 | ND | 104 | 80-120 | 1.03 | 20 | • |
| Surrogate: Dibromofluoromethane | 23.9 | | ug/l | 25.0 | | 95.6 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.6 | | ug/l | 25.0 | | 106 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | <i>24</i> .8 | | ug/l | 25.0 | | 99.2 | 80-120 | | | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Jim Clarke Attention:

Client Project ID:

Report Number:

Reporting

70211-0-0152

PKH0540

Sampled: 08/29/01-08/30/01

Received: 08/30/01

RPD

Data

%REC

Spike

Source

TOTAL METALS

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
|---------------------------------|-----------------|-------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Batch: P1I0524 Extracted: 09 | <u>//05/01</u> | | | | | | | | | |
| Blank Analyzed: 09/05/01 (P1I05 | 324-BLK1) | | | | | | | | • | |
| Mercury | ND | 0.020 | mg/kg | | | | | | | |
| LCS Analyzed: 09/05/01 (P1I052 | 4-BS1) | | | | • | | | | | |
| Mercury | 0.406 | 0.020 | mg/kg | 0.417 | | 97.4 | 85-115 | | | |
| Matrix Spike Analyzed: 09/05/01 | (P1I0524-MS1) | | | | Source: F | KH0487- | 01 | | | |
| Mercury | 0.358 | 0.020 | mg/kg | 0.417 | ND | 84.9 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 09/0 | 5/01 (P1I0524-M | SD1) | | | Source: F | KH0487- | 01 | | | |
| Mercury | 0.355 | 0.020 | mg/kg | 0.417 | ND | 84.2 | 85-115 | 0.842 | 20 | M2 |
| Batch: P1I0713 Extracted: 09 | <u>/07/01</u> | | | | | | | | | |
| Blank Analyzed: 09/10/01 (P1I07 | 13-BLK1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Barium | ND. | 1.0 | mg/kg | | | | | | | |
| Cadmium | ND | 0.50 | mg/kg | | | | | | | |
| Chromium | 2.99 | 1.0 | mg/kg | | | | | | | B1 |
| Lead | ND | 5.0 | mg/kg | | | | | | | |
| Selenium | ND | 5.0 | mg/kg | | | | | | | |
| Silver | ND | 0.50 | mg/kg | | | | | | | |
| LCS Analyzed: 09/10/01 (P1I071 | 3-BS1) | | | | | | | | | |
| Arsenic | 94.8 | 5.0 | mg/kg | 100 | | 94.8 | 80-120 | | | |
| Barium | 96.1 | 1.0 | mg/kg | 100 | | 96.1 | 80-120 | | | |
| Cadmium | 97.9 | 0.50 | mg/kg | 100 | | 97.9 | 80-120 | | | |
| Chromium | 95.6 | 1.0 | mg/kg | 100 | | 95.6 | 80-120 | | | |
| Lead | 94.3 | 5.0 | mg/kg | 100 | | 94.3 | 80-120 | | | |
| Selenium | 94.8 | 5.0 | mg/kg | 100 | | 94.8 | 80-120 | | | |
| Silver | 81.7 | 0.50 | mg/kg | 100 | | 81.7 | 80-120 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Report Number:

PKH0540

Received: 08/30/01

......METHOD REWNK/QCDATA

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------|-------------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P110713 Extracted: 09/07/01 | <u>L</u> | | | | | | | | | |
| Matrix Spike Analyzed: 09/10/01 (P1I0 | 713-MS1) | | | | Source: F | KH0511- | 03 | | | |
| Arsenic | 88.9 | 5.0 | mg/kg | 100 | ND | 88.9 | 75-125 | | | |
| Barium | 301 | 1.0 | mg/kg | 100 | 230 | 71.0 | 75-125 | | | M2 |
| Cadmium | 87.6 | 0.50 | mg/kg | 100 | ND | 87.6 | 75-125 | | | |
| Chromium | 101 | 1.0 | mg/kg | 100 | 25 | 76.0 | 75-125 | | | |
| Lead | 97.5 | 5.0 | mg/kg | 100 | 9.0 | 88.5 | 75-125 | | | |
| Selenium | 92.2 | 5.0 | mg/kg | 100 | ND | 90.0 | 75-125 | | | |
| Silver | 88.7 | 0.50 | mg/kg | 100 | ND | 88.7 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/10/01 (| P110713-MS | D 1) | | | Source: P | KH0511- | 03 | | • | |
| Arsenic | 73.2 | 5.0 | mg/kg | 100 | ND | 73.2 | 75-125 | 19.4 | 20 | M2 |
| Barium | 300 | 1.0 | mg/kg | 100 | 230 | 70.0 | 75-125 | 0.333 | 20 | M2 |
| Cadmium | 73.5 | 0.50 | mg/kg | 100 | ND | 73.5 | 75-125 | 17.5 | 20 | M2 |
| Chromium | 88.3 | 1.0 | mg/kg | 100 | 25 | 63.3 | 75-125 | 13.4 | 20 | M2 |
| Lead | 81.7 | 5.0 | mg/kg | 100 | 9.0 | 72.7 | 75-125 | 17.6 | 20 | M2 |
| Selenium | 76.4 | 5.0 | mg/kg | 100 | ND | 74.2 | 75-125 | 18.7 | 20 | M2 |
| Silver | 86.5 | 0.50 | mg/kg | 100 | ND . | 86.5 | 75-125 | 2.51 | 20 | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

RPD

Data

Report Number:

Reporting

PKH0540

- METHOD BLANK OF DATA

TOTAL RECOVERABLE METALS

Spike

Source

%REC

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
|------------------------------------|---------------|-------|-------|--------|--------------------|---------|--------|-------|-------|------------|
| Batch: P1I0404 Extracted: 08/3 | 1/01 | - | | | | | | | | |
| Blank Analyzed: 08/31/01 (P1I0404 | -BLK1) | | | | | | | | | |
| Chromium VI | ND | 0.025 | mg/l | | , | | | | | |
| LCS Analyzed: 08/31/01 (P1I0404-1 | BS1) | | | | | | | | | |
| Chromium VI | 0.0993 | 0.050 | mg/l | 0.100 | | 99.3 | 85-115 | | | |
| Matrix Spike Analyzed: 08/31/01 (I | P1I0404-MS1) | | | | Source: P | KH0540- | 02 | | | |
| Chromium VI | 0.0521 | 0.025 | mg/l | 0.0500 | ND | 104 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 08/31/ | 01 (P1I0404-M | SD1) | | | Source: PKH0540-02 | | | | | |
| Chromium VI | 0.0509 | 0.025 | mg/l | 0.0500 | ND | 102 | 85-115 | 2.33 | 20 | |
| Batch: P1I0605 Extracted: 09/0 | <u>6/01</u> | | | | | | | | | |
| Blank Analyzed: 09/07/01 (P1I0605 | -BLK1) | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| LCS Analyzed: 09/07/01 (P1I0605-I | BS1) | | | | | | | | | |
| Arsenic | 1.04 | 0.050 | mg/l | 1.00 | | 104 | 85-115 | | | |
| Copper | 1.05 | 0.020 | mg/l | 1.00 | | 105 | 85-115 | | | |
| Nickel | 1.02 | 0.050 | mg/l | 1.00 | | 102 | 85-115 | | | |
| Zinc | 1.05 | 0.050 | mg/l | 1.00 | | 105 | 85-115 | | | |
| LCS Dup Analyzed: 09/07/01 (P1I0 | 605-BSD1) | | | | | | | | , | |
| Arsenic | 1.03 | 0.050 | mg/l | 1.00 | | 103 | 85-115 | 0.966 | 20 | |
| Copper | 1.06 | 0.020 | mg/l | 1.00 | | 106 | 85-115 | 0.948 | 20 | |
| Nickel | 1.01 | 0.050 | mg/l | 1.00 | , | 101 | 85-115 | 0.985 | 20 | |
| Zinc | 1.04 | 0.050 | mg/l | 1.00 | | 104 | 85-115 | 0.957 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

PKH0540

NGH HITODHKI ESIN KTOTES DELE

TOTAL RECOVERABLE METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------------|-----------|-------|-------|-----------|---------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0605 Extracted: 09/06 | <u>/01</u> | | | | | | | | | |
| Matrix Spike Analyzed: 09/07/01 (P. | 110605-MS1) | | | | Source: F | KH0544- | 01 | | | |
| Arsenic | 1.04 | 0.050 | mg/l | 1.00 | ND | 104 | 70-130 | | | |
| Copper | 0.986 | 0.020 | mg/l | 1.00 | ND | 97.6 | 70-130 | | | |
| Nickel | 0.977 | 0.050 | mg/l | 1.00 | ND | 97.6 | 70-130 | | | |
| Zine | 1.01 | 0.050 | mg/l | 1.00 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/07/0 | 1 (P1I0605-M | SD1) | | | Source: P | KH0544- | 01 | | | |
| Arsenic | 1.04 | 0.050 | mg/l | 1.00 | ND | 104 | 70-130 | 0.00 | 20 | |
| Copper | 0.987 | 0.020 | mg/l | 1.00 | ND | 97.7 | 70-130 | 0.101 | 20 | |
| Nickel | 0.965 | 0.050 | mg/l | 1.00 | ND | 96.4 | 70-130 | 1.24 | 20 | |
| Zinc | 0.996 | 0.050 | mg/l | 1.00 | ND | 98.8 | 70-130 | 1.40 | 20 | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0152

Sampled: 08/29/01-08/30/01

RPD

Data

Received: 08/30/01

%REC

Report Number:

Reporting

PKH0540

-NICH HOD BLANK/QUEDAUA -

Spike

Source

INORGANICS

| | | F | | | | | | | | 2 | |
|---------------------------------------|---------------|---------------|-------|-------|-----------|----------|--------|------|-------|------------|--|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers | |
| Batch: P1I1008 Extracted: 09/10/0 | <u>1</u> | | | | | | | | | | |
| Blank Analyzed: 09/10/01 (P1I1008-Bl | L K1) | | | | | | *** | | | | |
| Total Cyanide | ND | 0.020 | mg/l | | | | | | | | |
| LCS Analyzed: 09/10/01 (P1I1008-BS1 | l) | | | | • | | | | | | |
| Total Cyanide | 0.0905 | 0.020 | mg/l | 0.100 | | 90.5 | 90-110 | | | | |
| Matrix Spike Analyzed: 09/10/01 (P11) | 1008-MS1) | | | | Source: F | KH0515- | 18 | | | | |
| Total Cyanide | 0.0876 | 0.020 | mg/l | 0.100 | ND | 87.6 | 70-130 | | | • | |
| Matrix Spike Dup Analyzed: 09/10/01 | (P1I1008-MS | S D 1) | | | Source: P | PKH0515- | 18 | | | | |
| Total Cyanide | 0.0963 | 0.020 | mg/l | 0.100 | ND | 96.3 | 70-130 | 9.46 | 20 | | |
| Batch: P1I1024 Extracted: 09/10/0 | <u>1</u> | | | | | | | | | | |
| Blank Analyzed: 09/11/01 (P1I1024-BI | LK1) | | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | | |
| Matrix Spike Analyzed: 09/11/01 (P1I) | 1024-MS1) | | | | Source: P | KH0540- | 01 | | | | |
| Total Cyanide | 2.46 | 0.50 | mg/kg | 2.50 | ND | 98.4 | 70-130 | | | | |
| Matrix Spike Dup Analyzed: 09/11/01 | (P1I1024-MS | SD1) | | • | Source: P | KH0540- | 01 | | | | |
| Total Cyanide | 2.19 | 0.50 | mg/kg | 2.50 | ND | 87.6 | 70-130 | 11.6 | 20 | | |
| Reference Analyzed: 09/11/01 (P1I1024 | 4-SRM1) | | | | | | | | | | |
| Total Cyanide | 138 | 20 | mg/kg | 201 | | 68.7 | 40-160 | | | | |
| | | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Jim Clarke Attention:

Client Project ID:

Report Number:

70211-0-0152

Sampled: 08/29/01-08/30/01

Received: 08/30/01

PKH0540

DATA QUALIFIERS AND DEFINITIONS

B1 Target analyte detected in method blank at or above the method reporting limit.

B4 Target analyte detected in blank at/above method acceptance criteria.

Matrix spike recovery was low, the method control sample recovery was acceptable. M₂

N1 See case narrative.

N2 See corrective action report.

MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria. R4

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported.

RPD Relative Percent Difference

(909) 370-4667 FAX (909) 370-1046 (919) 778-1949 FAX (819) 778-1943 (819) 505-8596 FAX (819) 505-969 (480) 785-0043 FAX (480) 785-0851 1014 E. Colon, Chia, Sulfe, A. Colon, Ghagaga, 16325 Sherman Way, Sulfe C-11, Van Nuys, CA 82406 9444 Chestpeake Dr., Sulfe 805, San Diego, CA 92140 9830 South 51st St., Sulfe 805, Sun Diego, CA 82004 9830 South 51st St., Sulfe 8120, Phoenix, AZ 85044 CHAIN OF CUSTODY FORM

Special Instructions \mathcal{C} 20 ♂ 05 72 hours Sdays normal on Ice Page (Check) (Check Turnaround Time: Sample Integrity: 10 16 9 WILL Quote #: same day 24 hours 48 hours intact i, ii UZ んかい Analysis Required Date /Time: Date /Time Date./Time: RCRA うるかろ Received in Lab by: Preservatives 200 X をマナ Received by: Received by NONE 70211-11-0150 0220 Sampling Date/Time Project/PO Number: 1000 The second 13/12/20 Phone Number: カン Fax Number: 437 01/1 Cont. # O Date Time: Date (Time: Date /Time Sample Container Type VON S Matrix 421451 STO W. TATE OF STATE するかな Description Client Name/Address: Sample NEW PRE Project Manager auished By (X) Sampler

by relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services tement o A due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COCGB



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID 70211-0-0150

Report Number: PKH0511

Sampled: 08/28/01-08/29/01

Received: 08/29/01

Issued: 10/2/01-11/26/01

Revised: 11/26/01

| LABORATORY NUMBER | SAMPLE DESCRIPTION | SAMPLE MATRIX |
|----------------------|-----------------------|------------------|
| PKH0511-01 | LB3-S-10 | Soil |
| PKH0511-02 | LB3-S-20 | Soil |
| PKH0511-03 | LB3-S-30 | Soil |
| PKH0511-03RE2 | LB3-S-30 | Soil |
| PKH0511-04 | LB3-S-40 | Soil |
| PKH0511-04RE2 | LB3-S-40 | Soil |
| PKH0511-05 | LB3-S-50 | Soil |
| PKH0511-05RE2 | LB3-S-50 | Soil |
| PKH0511-05RE7 | LB3-S-50 | Soil |
| PKH0511-06 | LB3-S-60 | Soil |
| PKH0511-09 | LB3-S-30 | Soil |
| PKH0511-11 | LB3-S-50 | Soil |
| PKH0511-13 | RINSATE | Water |
| | | |

SAMPLE RECEIPT:

Samples were received intact, on ice, and with chain of custody documentation. Soil samples requiring volatile analysis were

received in Encore Container(s). Samples were received at a temperature of 7 degrees C.

HOLDING TIMES:

Holding times were met.

PRESERVATION:

Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS:

Report was revised 11/26/01 to include Quality Control data for Method 8260 (Soils).

SUBCONTRACTED:

No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA:

The N2 flag on ICP Metals indicates that the Matrix Spike recovery was outside the method control limits. See Corrective Action Report. The R1 flag on ICP Metals indicates that the RPD exceeded the method control limit. See Corrective Action

Report.

EXPLANATION OF DATA

QUALIFIERS:

The N1 flag on ICP Metals indicates that the analyte was detected in the associated Method Blank. Analyte concentration in the sample is greater than 10X the concentration found in the Method Blank. The N2 flag on 8260 indicates that one or more

QC parameters were outside of laboratory acceptance limits. Please see Corrective Action Report.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Debbie Fuller

Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

PKH0511 Page 1 of 36





CORRECTIVE ACTION REPORT

Department: Metals

Methods:

6010B

Date:

09/14/2001

Matrix:

Soil

Batch:

P111410

Samples Affected:

PKI0059-01 - PKI0059-04, PKI0037-02, PKI0078-01,

PKI0082-01 - PKI0082-03, PKI0091-01 PKI0091-02, PKI0138-074, PKH0511-03 - PKH0511-05, PKH0448-03,

PKH0448-06 & PKH0471-02

Identification and Definition of Problem:

Several analytes recovered low and outside of acceptance limits in the Matrix Spike Duplicate (MSD). Also, several of the analytes recovered high and outside of acceptance limits in the Matrix Spike (MS). Because the MSD recovered low and the MS recovered high the Relative Percent Difference between the MS and the MSD for these compounds was also high and outside of acceptance limits.

Determination of the Cause of the Problem:

A definitive cause for the out of acceptance limits recoveries could not be determined.

Corrective Action:

The Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were both within acceptance limits for all analytes. The RPDs between the LCS and the LCSD were also within acceptance limits. Therefore the data should not be significantly impacted. The MS and MSD have been flagged "N2" to indicate that the recoveries were outside of acceptance limits. The MSD has also been flagged "R1" to indicate that the RPD was outside of acceptance limits.

Elizabeth C. Wueschner: Shaketh C. Uneschen Date: 10/5/2001
Quality Assurance Manager



CORRECTIVE ACTION REPORT

Department: GC/MS

Method:

8260B

Date:

09/09/2001

Matrix:

Water

Batch:

P111002

Samples:

PKH0451-02, PKH0563-01 - PKH0563-02, PKH0535-02, PKH0511-11

- PKH00511-13, PKH0540-02 & PKI0037-03

Identification and Definition of Problem:

The Matrix Spike (MS) recovered below the Method Detection Limit (MDL) for Vinyl Acetate. The MS recovered at a concentration of 11ppb and the MDL is 12ppb. The recovery of the compound is 44% and within the acceptance limits of 25-130%. Due to the MS recovering below the MDL, the Relative Percent Difference (RPD) between the MS and the Matrix Spike Duplicate (MSD) is not calculated in the report. The actual RPD between the MS and the MSD is 13%.

Determination of the Cause of the Problem:

The cause of the low recovery in the MS which caused the concentration to be below the MDL has not been determined.

Corrective Action:

The Laboratory Control Sample (LCS), Laboratory Control Sample Duplicate (LCSD) and MSD recovered within acceptance limits for Vinyl acetate. The RPD between the LCS and the LCSD was also within acceptance limits. Therefore, the data should not be significantly impacted. The MS has been flagged "N2" for Vinyl acetate to indicate that the compound was recovered at a concentration that is less than the MDL.

Ouality Assurance Manager

Elizabeth C. Wueschner: Charles C. Wueschner Date: 10/5/2001



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project 1D:

70211-0-0150

Sampled: 08/28/01-08/29/01

Attention: Jim Clarke

Report Number: PKH0511

Received: 08/29/01

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|-------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0511-09 (LB3-S | -30 - Soil) | | - | ~-B/B | | | | |
| Acetone | EPA 8260B | P1H3001 | 850 | ND | 1 | 8/30/01 | 9/9/01 | |
| Benzene | EPA 8260B | P1H3001 | 42 | ND | 1 | 8/30/01 | 9/9/01 | |
| Bromobenzene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| Bromochloromethane | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| Bromodichloromethane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Bromoform | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| Bromomethane | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1H3001 | 420 | ND | 1 | 8/30/01 | 9/9/01 | |
| n-Butylbenzene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| sec-Butylbenzene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| tert-Butylbenzene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| Carbon Disulfide | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| Carbon tetrachloride | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| Chlorobenzene | EPA 8260B | P1H3001 | 42 | ND | 1 | 8/30/01 | 9/9/01 | |
| Chloroethane | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| Chloroform | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Chloromethane | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| 2-Chlorotoluene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| 4-Chlorotoluene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| Dibromochloromethane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Dibromomethane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1H3001 | 42 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Ethylbenzene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Hexachlorobutadiene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| 2-Hexanone | EPA 8260B | P1H3001 | 420 | ND | 1 | 8/30/01 | 9/9/01 | |
| Iodomethane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Isopropylbenzene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|------------------------|-----------------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0511-09 (LB3- | -S-30 - Soil) | | 8 8 | 0 0 | | | | |
| p-Isopropyltoluene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Methylene chloride | EPA 8260B | P1H3001 | 420 | ND | 1 | 8/30/01 | 9/9/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1H3001 | 420 | ND | 1 | 8/30/01 | 9/9/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| Naphthalene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| n-Propylbenzene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Styrene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Tetrachloroethene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Toluene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Trichloroethene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Trichlorofluoromethane | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1H3001 | 420 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1H3001 | 85 | ND | 1 | 8/30/01 | 9/9/01 | |
| Vinyl acetate | EPA 8260B | P1H3001 | 1000 | ND | 1 | 8/30/01 | 9/9/01 | |
| Vinyl chloride | EPA 8260B | P1H3001 | 210 | ND | 1 | 8/30/01 | 9/9/01 | |
| Xylenes, Total | EPA 8260B | P1H3001 | ` 130 | ND | 1 | 8/30/01 | 9/9/01 | |
| Surrogate: Dibromofluoromethane (70-12 | 25%) | | | 89.2 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 96.2 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-13 | 10%) | | | 93.4 % | | | | |
| The reporting limit for this sample was ad | lineted by a factor of | 0 846 to accoun | nt for the annlica | hle proparation | factor | | | |

The reporting limit for this sample was adjusted by a factor of 0.846 to account for the applicable preparation factor.



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

Report Number:

PKH0511

| on the billion by | | | | | | | | | |
|------------------------------|--------------|---------|-----------------------------|---------------------------|--------------------|--------------------|------------------|--------------------|--|
| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers | |
| Sample ID: PKH0511-11 (LB3-5 | S-50 - Soil) | | ug/Ng | ug/kg | | | | | |
| Acetone | EPA 8260B | P1H3001 | 890 | ND | 1 | 9/20/01 | 0/0/01 | | |
| Benzene | EPA 8260B | P1H3001 | 44 | ND | 1 1 | 8/30/01 8/30/01 | 9/9/01 | | |
| Bromobenzene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 9/9/01 | | |
| Bromochloromethane | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Bromodichloromethane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Bromoform | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Bromomethane | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 2-Butanone (MEK) | EPA 8260B | P1H3001 | 440 | ND | 1 | 8/30/01 | 9/9/01 | | |
| n-Butylbenzene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| sec-Butylbenzene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| tert-Butylbenzene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Carbon Disulfide | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Carbon tetrachloride | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Chlorobenzene | EPA 8260B | P1H3001 | 44 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Chloroethane | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Chloroform | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Chloromethane | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 2-Chlorotoluene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 4-Chlorotoluene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Dibromochloromethane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1H3001 | 220 | ND | i | 8/30/01 | 9/9/01 | | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Dibromomethane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 1,2-Dichlorobenzene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 1,3-Dichlorobenzene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 1,4-Dichlorobenzene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Dichlorodifluoromethane | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 1,1-Dichloroethane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 1,2-Dichloroethane | EPA 8260B | P1H3001 | 44 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 1,1-Dichloroethene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| cis-1,2-Dichloroethene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| trans-1,2-Dichloroethene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 1,2-Dichloropropane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 1,3-Dichloropropane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 2,2-Dichloropropane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 1,1-Dichloropropene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| cis-1,3-Dichloropropene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Ethylbenzene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Hexachlorobutadiene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | | |
| 2-Hexanone | EPA 8260B | P1H3001 | 440 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Iodomethane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| Isopropylbenzene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | | |
| | | | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Attention: Jim Clarke

PKH0511 Report Number:

Received: 08/29/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0511-11 (LB3- | S-50 - Soil) | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | |
| Methylene chloride | EPA 8260B | P1H3001 | 440 | ND | 1 | 8/30/01 | 9/9/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1H3001 | 440 | ND | 1 | 8/30/01 | 9/9/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | |
| Naphthalene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | |
| n-Propylbenzene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | |
| Styrene | EPA 8260B | P1H3001 | 89 | ND | 1 . | 8/30/01 | 9/9/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | |
| Tetrachloroethene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | |
| Toluene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | |
| Trichloroethene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | |
| Trichlorofluoromethane | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1H3001 | 440 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1H3001 | 89 | ND | 1 | 8/30/01 | 9/9/01 | |
| Vinyl acetate | EPA 8260B | P1H3001 | 1100 | ND | 1 | 8/30/01 | 9/9/01 | |
| Vinyl chloride | EPA 8260B | P1H3001 | 220 | ND | 1 | 8/30/01 | 9/9/01 | |
| Xylenes, Total | EPA 8260B | P1H3001 | 130 | ND | 1 | 8/30/01 | 9/9/01 | |
| Surrogate: Dibromofluoromethane (70-12 | | 92.8 % | | | | | | |
| Surrogate: Toluene-d8 (50-135%) | | 95.5 % | | | | | | |
| Surrogate: 4-Bromofluorobenzene (70-13 | 0%) | | | 86.1 % | | | | |
| TTI | | 0.007 + | | 1.1 | - C | | | |

The reporting limit for this sample was adjusted by a factor of 0.887 to account for the applicable preparation factor.

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|--------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0511-13 (RINSA | ATE - Water) | | - | 8'- | | | | |
| Acetone | EPA 8260B | P1I1002 | 20 | ND | 1 | 9/9/01 | 9/9/01 | |
| Benzene | EPA 8260B | P1I1002 | 2.0 | ND | i | 9/9/01 | 9/9/01 | |
| Bromobenzene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Bromochloromethane | EPA 8260B | P1I1002 | 5.0 | ND | i | 9/9/01 | 9/9/01 | |
| Bromodichloromethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Bromoform | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Bromomethane | EPA 8260B | P1I1002 | 5.0 | ND | i | 9/9/01 | 9/9/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1002 | 10 | ND | i | 9/9/01 | 9/9/01 | |
| n-Butylbenzene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| sec-Butylbenzene | EPA 8260B | P111002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| tert-Butylbenzene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Carbon Disulfide | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Chlorobenzene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Chloroethane | EPA 8260B | P111002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Chloroform | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | | |
| Chloromethane | EPA 8260B | P111002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 2-Chlorotoluene | EPA 8260B | P111002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | | 9/9/01 | |
| Dibromochloromethane | EPA 8260B | P111002 | 2.0 | ND ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P111002 | 5.0 | | _ | 9/9/01 | 9/9/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P111002 | 2.0 | ND ND | 1 | 9/9/01 | 9/9/01 | |
| Dibromomethane | EPA 8260B | P111002 | 2.0 | ND ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P111002 | 2.0 | | 1 | 9/9/01 | 9/9/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1002 | | ND | 1 | 9/9/01 | 9/9/01 | |
| Dichlorodifluoromethane | | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1-Dichloroethane | EPA 8260B | P111002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2-Dichloropropane | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,3-Dichloropropane | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Ethylbenzene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 2-Hexanone | EPA 8260B | P111002 | 10 | ND | 1 | 9/9/01 | 9/9/01 | |
| Iodomethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Isopropylbenzene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number: PKH0511

Received: 08/29/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0511-13 (RINS | SATE - Water) | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Methylene chloride | EPA 8260B | P111002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P111002 | 10 | ND | 1 | 9/9/01 | 9/9/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Naphthalene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| n-Propylbenzene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Styrene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Tetrachloroethene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Toluene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Trichloroethene | EPA 8260B | P1I1002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1002 | 10 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P111002 | 2.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Vinyl acetate | EPA 8260B | P1I1002 | 25 | ND | 1 | 9/9/01 | 9/9/01 | |
| Vinyl chloride | EPA 8260B | P1I1002 | 5.0 | ND | 1 | 9/9/01 | 9/9/01 | |
| Xylenes, Total | EPA 8260B | P1I1002 | 10 | ND | 1 | 9/9/01 | 9/9/01 | |
| Surrogate: Dibromofluoromethane (80-12 | 10%) | | | 107 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | 106 % | | | | |
| Surrogate: 4-Bromofluorobenzene (80-12) | 0%) | | | 103 % | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-0150

Report Number:

Sampled: 08/28/01-08/29/01

Received: 08/29/01

TOTAL METALS

PKH0511

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|----------------------------|-------------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0511-01 (LB3 | 3-S-10 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P110616 | 5.0 | ND | 1 | 9/6/01 | 9/9/01 | |
| Chromium | EPA 6010B | P1I0616 | 1.0 | 26 | 1 | 9/6/01 | 9/9/01 | |
| Chromium VI | EPA 7196A | P1I0722 | 1.0 | ND | 1 | 9/7/01 | 9/7/01 | |
| Copper | EPA 6010B | P1I0616 | 2.0 | 24 | 1 | 9/6/01 | 9/9/01 | |
| Nickel | EPA 6010B | P1I0616 | 5.0 | 24 | 1 | 9/6/01 | 9/9/01 | |
| Zinc | EPA 6010B | P1I0616 | 5.0 | 74 | 1 | 9/6/01 | 9/9/01 | NI |
| Sample ID: PKH0511-02 (LB3 | 3-S-20 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P110616 | 5.0 | ND | 1 | 9/6/01 | 9/10/01 | |
| Chromium | EPA 6010B | P1I0616 | 1.0 | 20 | 1 | 9/6/01 | 9/10/01 | |
| Chromium VI | EPA 7196A | P1I0722 | 1.0 | ND | 1 | 9/7/01 | 9/7/01 | |
| Copper | EPA 6010B | P1I0616 | 2.0 | 16 | 1 | 9/6/01 | 9/10/01 | |
| Nickel | EPA 6010B | P1I0616 | 5.0 | 15 | 1 | 9/6/01 | 9/10/01 | |
| Zinc | EPA 6010B | P110616 | 5.0 | 51 | 1 | 9/6/01 | 9/10/01 | N1 |
| Sample ID: PKH0511-03 (LB3 | 3-S-30 - Soil) | | | | | | -,, | |
| Arsenic | EPA 6010B | P1I0713 | 5.0 | ND | 1 | 9/7/01 | 9/10/01 | M2 |
| Chromium VI | EPA 7196A | P1I0722 | 1.0 | ND | 1 | 9/7/01 | 9/7/01 | |
| Copper | EPA 6010B | P110713 | 2.0 | 13 | ·1 | 9/7/01 | 9/10/01 | |
| Nickel | EPA 6010B | P110713 | 5.0 | 32 | 1 | 9/7/01 | 9/10/01 | M2 |
| Zinc | EPA 6010B | P1I0713 | 5.0 | 38 | 1 | 9/7/01 | 9/10/01 | |
| Sample ID: PKH0511-03RE2 | (LB3-S-30 - Soil) | | | - - | - | | 2, 10, 01 | |
| Chromium | EPA 6010B | P1I1410 | 1.0 | 61 | 1 | 9/11/01 | 9/14/01 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

Attention: Jim Clarke

Report Number: P

PKH0511

KH0311

TOTAL METALS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|-----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0511-04 (LB3-S- | -40 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I0713 | 5.0 | ND | 1 | 9/7/01 | 9/10/01 | |
| Chromium VI | EPA 7196A | P1I0722 | 1.0 | ND | 1 | 9/7/01 | 9/7/01 | |
| Copper | EPA 6010B | P1I0713 | 2.0 | 16 | 1 | 9/7/01 | 9/10/01 | |
| Nickel | EPA 6010B | P1I0713 | 5.0 | 33 | 1 | 9/7/01 | 9/10/01 | |
| Zinc | EPA 6010B | P1I0713 | 5.0 | 39 | 1 | 9/7/01 | 9/10/01 | |
| Sample ID: PKH0511-04RE2 (LI | 33-S-40 - Soil) | | | | | | | |
| Chromium | EPA 6010B | P111410 | 1.0 | 21 | 1 | 9/11/01 | 9/14/01 | |
| Sample ID: PKH0511-05 (LB3-S- | -50 - Soil) | | | | | | | |
| Chromium VI | EPA 7196A | P1I0722 | 1.0 | ND | 1 | 9/7/01 | 9/7/01 | |
| Sample ID: PKH0511-05RE2 (Ll | 33-S-50 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I1410 | 5.0 | ND | 1 | 9/11/01 | 9/14/01 | |
| Chromium | EPA 6010B | P1I1410 | 1.0 | 150 | 1 | 9/11/01 | 9/14/01 | |
| Copper | EPA 6010B | P1I1410 | 2.0 | 9.8 | 1 | 9/11/01 | 9/14/01 | |
| Nickel | EPA 6010B | P1I1410 | 5.0 | 53 | 1 | 9/11/01 | 9/14/01 | |
| Sample ID: PKH0511-05RE7 (LI | B3-S-50 - Soil) | | | | | | | |
| Zinc | EPA 6010B | PIJ0103 | 5.0 | 30 | 1 | 10/1/01 | 10/2/01 | |
| Sample ID: PKH0511-06 (LB3-S | -60 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I0713 | 5.0 | ND | 1 | 9/7/01 | 9/10/01 | |
| Chromium | EPA 6010B | P1I0713 | 1.0 | 45 | 1 | 9/7/01 | 9/10/01 | N1 |
| Chromium VI | EPA 7196A | P1I0722 | 1.0 | ND | 1 | 9/7/01 | 9/7/01 | |
| Copper | EPA 6010B | P1I0713 | 2.0 | 39 | 1 | 9/7/01 | 9/10/01 | |
| Nickel | EPA 6010B | P1I0713 | 5.0 | 51 | 1 | 9/7/01 | 9/10/01 | |
| Zinc | EPA 6010B | P1I0713 | 5.0 | 33 | 1 | 9/7/01 | 9/10/01 | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0511

Received: 08/29/01

TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/I | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|--------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKH0511-13 (RINS | ATE - Water) | | | | | | | |
| Arsenic | EPA 200.7 | P1H3011 | 0.050 | ND | 1 | 8/30/01 | 9/7/01 | |
| Chromium | EPA 200.7 | P1H3011 | 0.010 | ND | 1 | 8/30/01 | 9/7/01 | |
| Chromium VI | SM3500CR-D | P1H3101 | 0.025 | ND | 1 | 8/30/01 | 8/30/01 | |
| Copper | EPA 200.7 | P1H3011 | 0.020 | ND | 1 | 8/30/01 | 9/7/01 | |
| Nickel | EPA 200.7 | P1H3011 | 0.050 | ND | 1 | 8/30/01 | 9/7/01 | |
| Zinc | EPA 200.7 | P1H3011 | 0.050 | ND | 1 | 8/30/01 | 9/7/01 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 702

Report Number:

70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

PKH0511

| INORGANICS | | | | | | | | | | | |
|------------------------------|---------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|--|--|--|
| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers | | | |
| Sample ID: PKH0511-01 (LB3-9 | S-10 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I0611 | 0.50 | ND | 1 | 9/6/01 | 9/6/01 | | | | |
| Sample ID: PKH0511-02 (LB3-5 | S-20 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P110720 | 0.50 | ND | 1 | 9/7/01 | 9/10/01 | | | | |
| Sample ID: PKH0511-03 (LB3-5 | S-30 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I0720 | 0.50 | ND | 1 | 9/7/01 | 9/10/01 | | | | |
| Sample ID: PKH0511-04 (LB3-5 | S-40 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P110720 | 0.50 | ND | 1 | 9/7/01 | 9/10/01 | | | | |
| Sample ID: PKH0511-05 (LB3-5 | S-50 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I0720 | 0.50 | ND | 1 | 9/7/01 | 9/10/01 | | | | |
| Sample ID: PKH0511-06 (LB3- | S-60 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I0720 | 0.50 | ND | 1 | 9/7/01 | 9/10/01 | | | | |
| | | | mg/l | mg/l | | | | | | | |
| Sample ID: PKH0511-13 (RINS | SATE - Water) | | | | | | | | | | |
| Total Cyanide | SM4500-CN,C-E | P1I0709 | 0.020 | ND | 1 | 9/7/01 | 9/7/01 | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

... METROD REANKIGE DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3001 Extracted: 08/30 | <u>/01</u> | | | | | | | | | |
| Blank Analyzed: 09/05/01 (P1H3001- | BLK1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | | | | | | | |
| Benzene | ND | 50 | ug/kg | | | | | | | |
| Bromobenzene | ND | 250 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 250 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 100 | ug/kg | | | | | | | |
| Bromoform | ND | 250 | ug/kg | | | | | | | |
| Bromomethane | ND | 250 | ug/kg | | | | | | | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| Carbon Disulfide | ND | 250 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 250 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 50 | ug/kg | | | | | | | |
| Chloroethane | ND | 250 | ug/kg | | | | | | | |
| Chloroform | ND | 100 | ug/kg | | | | | | | |
| Chloromethane | ND | 250 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 100 | ug/kg | | | | | | | |
| Dibromomethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,4-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Dichlorodifluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 50 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 250 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| | | | | | | | | | | |



O/ DEC

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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

DDD

Data

NETHOD BLANKQC DATA.

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Cuilea

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3001 Extracted: 08/30 | <u>)/01</u> | | | | | | | | | |
| Blank Analyzed: 09/05/01 (P1H3001- | ·BLK1) | | | | | | | | | |
| 2,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 1,1-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 250 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 500 | ug/kg | | | | | | | |
| Iodomethane | ND | 100 | ug/kg | | | | | | | |
| Isopropylbenzene | ND | 100 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 100 | ug/kg | | | | | | | |
| Methylene chloride | ND | 500 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 500 | ug/kg | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | | | | |
| Naphthalene | ND | 250 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 100 | ug/kg | | | | | | | |
| Styrene | ND | 100 | ug/kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 100 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 100 | ug/kg | | | | | | | |
| Toluene | ND | 100 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| Trichloroethene | ND | 100 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Vinyl acetate | ND | 1200 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 250 | ug/kg | | | | | | | |
| Xylenes, Total | ND | 150 | ug/kg | | | | | | | |
| Surrogate: Dibromofluoromethane | 1100 | | ug/kg | 1250 | | 88.0 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1210 | | ug/kg | 1250 | | 96.8 | 50-135 | | | |
| | | | | | | | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

METHOD BLANKQC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3001 Extracted: 08/30/0 | 1 | | | | | | | | | |
| Blank Analyzed: 09/05/01 (P1H3001-B) | LK1) | | | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 1220 | | ug/kg | 1250 | | 97.6 | 70-130 | | | |
| LCS Analyzed: 09/05/01 (P1H3001-BS) | 1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 91.9 | 5-200 | | | |
| Benzene | 880 | 50 | ug/kg | 1000 | | 88.0 | 65-130 | | | |
| Bromobenzene | 878 | 250 | ug/kg | 1000 | | 87.8 | 60-135 | | | |
| Bromochloromethane | 880 | 250 | ug/kg | 1000 | | 88.0 | 60-135 | | | |
| Bromodichloromethane | 854 | 100 | ug/kg | 1000 | | 85.4 | 30-135 | | | |
| Bromoform | 818 | 250 | ug/kg | 1000 | | 81.8 | 60-140 | | | |
| Bromomethane | ND | 250 | ug/kg | 1000 | | 20.0 | 10-200 | | | |
| 2-Butanone (MEK) | 849 | 500 | ug/kg | 1000 | | 84.9 | 10-160 | | | |
| n-Butylbenzene | 897 | 250 | ug/kg | 1000 | | 89.7 | 65-125 | | | |
| sec-Butylbenzene | 936 | 250 | ug/kg | 1000 | | 93.6 | 70-135 | | | |
| tert-Butylbenzene | 906 | 250 | ug/kg | 1000 | | 90.6 | 70-130 | | | |
| Carbon Disulfide | 742 | 250 | ug/kg | 1000 | | 74.2 | 20-120 | | | |
| Carbon tetrachloride | 862 | 250 | ug/kg | 1000 | | 86.2 | 70-140 | | | |
| Chlorobenzene | 896 | 50 | ug/kg | 1000 | | 89.6 | 75-125 | | | |
| Chloroethane | ND | 250 | ug/kg | 1000 | | 22.5 | 10-200 | | | |
| Chloroform | 847 | 100 | ug/kg | 1000 | | 84.7 | 35-135 | | | |
| Chloromethane | 729 | 250 | ug/kg | 1000 | | 72.9 | 10-200 | | | |
| 2-Chlorotoluene | 870 | 250 | ug/kg | 1000 | | 87.0 | 70-135 | | | |
| 4-Chlorotoluene | 887 | 250 | ug/kg | 1000 | | 88.7 | 75-135 | | | |
| Dibromochloromethane | 837 | 100 | ug/kg | 1000 | | 83.7 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 734 | 250 | ug/kg | 1000 | | 73.4 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 827 | 100 | ug/kg | 1000 | | 82.7 | 70-130 | | | |
| Dibromomethane | 831 | 100 | ug/kg | 1000 | | 83.1 | 65-130 | | | |
| 1,2-Dichlorobenzene | 862 | 100 | ug/kg | 1000 | | 86.2 | 70-125 | | | |
| 1,3-Dichlorobenzene | 888 | 100 | ug/kg | 1000 | | 88.8 | 70-125 | | | |
| 1,4-Dichlorobenzene | 892 | 100 | ug/kg | 1000 | | 89.2 | 70-135 | | | |
| Dichlorodifluoromethane | 610 | 250 | ug/kg | 1000 | | 61.0 | 10-185 | | | |
| 1,1-Dichloroethane | 866 | 100 | ug/kg | 1000 | | 86.6 | 60-140 | | | |
| 1,2-Dichloroethane | 839 | 50 | ug/kg | 1000 | | 83.9 | 55-135 | | | |
| 1,1-Dichloroethene | 866 | 250 | ug/kg | 1000 | | 86.6 | 55-145 | | | |
| cis-1,2-Dichloroethene | 894 | 100 | ug/kg | 1000 | | 89.4 | 60-125 | | | |
| trans-1,2-Dichloroethene | 878 | 100 | ug/kg | 1000 | | 87.8 | 70-145 | | | |
| 1,2-Dichloropropane | 879 | 100 | ug/kg | 1000 | | 87.9 | 65-130 | | | |
| | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number: PKH0511

ATOTTIODELANGOCERA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-------------|-----------|-------|-------|--------|--------------|----------------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3001 Extracted: 08/30/0 | <u>)1</u> | | | | | | | | | |
| LCS Analyzed: 09/05/01 (P1H3001-BS | 1) | | | | | | | | | |
| 1,3-Dichloropropane | 862 | 100 | ug/kg | 1000 | | 86.2 | 65-130 | | | |
| 2,2-Dichloropropane | 818 | 100 | ug/kg | 1000 | | 81.8 | 60-135 | | | |
| 1,1-Dichloropropene | 849 | 100 | ug/kg | 1000 | | 84.9 | 65-130 | | | |
| cis-1,3-Dichloropropene | 886 | 100 | ug/kg | 1000 | | 88.6 | 60-125 | | | |
| trans-1,3-Dichloropropene | 818 | 100 | ug/kg | 1000 | | 81.8 | 50-130 | | | |
| Ethylbenzene | 899 | 100 | ug/kg | 1000 | | 89.9 | 70-125 | | | |
| Hexachlorobutadiene | 950 | 250 | ug/kg | 1000 | | 95.0 | 60-125 | | | |
| 2-Hexanone | 7 77 | 500 | ug/kg | 1000 | | 77.7 | 25-185 | | | |
| Iodomethane | 7 47 | 100 | ug/kg | 1000 | | 74.7 | 30-155 | | | |
| Isopropylbenzene | 899 | 100 | ug/kg | 1000 | | 89.9 | 70-135 | | | |
| p-Isopropyltoluene | 883 | 100 | ug/kg | 1000 | | 88.3 | 65-130 | | | |
| Methylene chloride | 943 | 500 | ug/kg | 1000 | | 94.3 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 777 | 500 | ug/kg | 1000 | | 77.7 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 805 | 250 | ug/kg | 1000 | | 80.5 | 55-135 | | | |
| Naphthalene | 788 | 250 | ug/kg | 1000 | | 78.8 | 45-155 | | | |
| n-Propylbenzene | 894 | 100 | ug/kg | 1000 | | 89.4 | 75-135 | | | |
| Styrene | 899 | 100 | ug/kg | 1000 | | 89.9 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 861 | 250 | ug/kg | 1000 | | 86.1 | 7 0-130 | | | |
| 1,1,2,2-Tetrachloroethane | 799 | 100 | ug/kg | 1000 | | 7 9.9 | 60-140 | | | |
| Tetrachloroethene | 900 | 100 | ug/kg | 1000 | | 90.0 | 65-130 | | | |
| Toluene | 899 | 100 | ug/kg | 1000 | | 89.9 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 794 | 250 | ug/kg | 1000 | | 79.4 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 828 | 250 | ug/kg | 1000 | | 82.8 | 55-135 | | | |
| 1,1,1-Trichloroethane | 855 | 100 | ug/kg | 1000 | | 85.5 | 65-135 | | | |
| 1,1,2-Trichloroethane | 857 | 100 | ug/kg | 1000 | | 85.7 | 65-130 | | | |
| Trichloroethene | 896 | 100 | ug/kg | 1000 | | 89.6 | 70-130 | | | |
| Trichlorofluoromethane | 690 | 250 | ug/kg | 1000 | | 69.0 | 10-200 | | | |
| 1,2,3-Trichloropropane | 786 | 500 | ug/kg | 1000 | | 78.6 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 907 | 100 | ug/kg | 1000 | | 90.7 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 886 | 100 | ug/kg | 1000 | | 88.6 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 66.4 | 25-130 | | | |
| Vinyl chloride | 806 | 250 | ug/kg | 1000 | | 80.6 | 10-200 | | | |
| Xylenes, Total | 2680 | 150 | ug/kg | 3000 | | 89.3 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 1080 | | ug/kg | 1250 | | 86.4 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1140 | | ug/kg | 1250 | | 91.2 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1160 | | ug/kg | 1250 | | 92.8 | 70-130 | | | |

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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

METHOD BLANKQC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|------------|-----------|-------|-------|--------|---------------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3001 Extracted: 08/30/ | <u>′01</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/05/01 (P1H300 | 01-BSD1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 89.9 | 5-200 | 2.20 | 35 | |
| Benzene | 861 | 50 | ug/kg | 1000 | | 86.1 | 65-130 | 2.18 | 35 | |
| Bromobenzene | 880 | 250 | ug/kg | 1000 | | 88.0 | 60-135 | 0.228 | 35 | |
| Bromochloromethane | 852 | 250 | ug/kg | 1000 | | 85.2 | 60-135 | 3.23 | 35 | |
| Bromodichloromethane | 864 | 100 | ug/kg | 1000 | | 86.4 | 30-135 | 1.16 | 35 | |
| Bromoform | 773 | 250 | ug/kg | 1000 | | 7 7 .3 | 60-140 | 5.66 | 35 | |
| Bromomethane | ND | 250 | ug/kg | 1000 | | 11.5 | 10-200 | 54.0 | 35 | R6 |
| 2-Butanone (MEK) | 835 | 500 | ug/kg | 1000 | | 83.5 | 10-160 | 1.66 | 35 | |
| n-Butylbenzene | 892 | 250 | ug/kg | 1000 | | 89.2 | 65-125 | 0.559 | 35 | |
| sec-Butylbenzene | 931 | 250 | ug/kg | 1000 | | 93.1 | 70-135 | 0.536 | 35 | |
| tert-Butylbenzene | 886 | 250 | ug/kg | 1000 | | 88.6 | 70-130 | 2.23 | 35 | |
| Carbon Disulfide | 648 | 250 | ug/kg | 1000 | | 64.8 | 20-120 | 13.5 | 35 | |
| Carbon tetrachloride | 794 | 250 | ug/kg | 1000 | | 79.4 | 70-140 | 8.21 | 35 | |
| Chlorobenzene | 856 | 50 | ug/kg | 1000 | | 85.6 | 75-125 | 4.57 | 35 | |
| Chloroethane | ND | 250 | ug/kg | 1000 | | 21.9 | 10-200 | 2.70 | 35 | |
| Chloroform | 796 | 100 | ug/kg | 1000 | | 7 9.6 | 35-135 | 6.21 | 35 | |
| Chloromethane | 675 | 250 | ug/kg | 1000 | | 67.5 | 10-200 | 7.69 | 35 | |
| 2-Chlorotoluene | 867 | 250 | ug/kg | 1000 | | 86.7 | 70-135 | 0.345 | 35 | |
| 4-Chlorotoluene | 888 | 250 | ug/kg | 1000 | | 88.8 | 75-135 | 0.113 | 35 | |
| Dibromochloromethane | 779 | 100 | ug/kg | 1000 | | 7 7 .9 | 35-135 | 7.18 | 35 | |
| 1,2-Dibromo-3-chloropropane | 688 | 250 | ug/kg | 1000 | | 68.8 | 50-155 | 6.47 | 35 | |
| 1,2-Dibromoethane (EDB) | 753 | 100 | ug/kg | 1000 | | 75.3 | 70-130 | 9.37 | 35 | |
| Dibromomethane | 841 | 100 | ug/kg | 1000 | | 84.1 | 65-130 | 1.20 | 35 | |
| 1,2-Dichlorobenzene | 861 | 100 | ug/kg | 1000 | | 86.1 | 70-125 | 0.116 | 35 | |
| 1,3-Dichlorobenzene | 882 | 100 | ug/kg | 1000 | | 88.2 | 70-125 | 0.678 | 35 | |
| 1,4-Dichlorobenzene | 887 | 100 | ug/kg | 1000 | | 88.7 | 70-135 | 0.562 | 35 | |
| Dichlorodifluoromethane | 569 | 250 | ug/kg | 1000 | | 56.9 | 10-185 | 6.96 | 35 | |
| 1,1-Dichloroethane | 850 | 100 | ug/kg | 1000 | | 85.0 | 60-140 | 1.86 | 35 | |
| 1,2-Dichloroethane | 803 | 50 | ug/kg | 1000 | | 80.3 | 55-135 | 4.38 | 35 | |
| 1,1-Dichloroethene | 844 | 250 | ug/kg | 1000 | | 84.4 | 55-145 | 2.57 | 35 | |
| cis-1,2-Dichloroethene | 838 | 100 | ug/kg | 1000 | | 83.8 | 60-125 | 6.47 | 35 | |
| trans-1,2-Dichloroethene | 809 | 100 | ug/kg | 1000 | | 80.9 | 70-145 | 8.18 | 35 | |
| 1,2-Dichloropropane | 899 | 100 | ug/kg | 1000 | | 89.9 | 65-130 | 2.25 | 35 | |
| 1,3-Dichloropropane | 788 | 100 | ug/kg | 1000 | | 78.8 | 65-130 | 8.97 | 35 | |
| 2,2-Dichloropropane | 787 | 100 | ug/kg | 1000 | | 78.7 | 60-135 | 3.86 | 35 | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0511

Received: 08/29/01

NETHOD BLANKOO DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|------------|-----------|-------|-------|--------|---------------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3001 Extracted: 08/30/ | <u>'01</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/05/01 (P1H300 | 01-BSD1) | | | | | | | | | |
| 1,1-Dichloropropene | 789 | 100 | ug/kg | 1000 | | 78.9 | 65-130 | 7.33 | 35 | |
| cis-1,3-Dichloropropene | 885 | 100 | ug/kg | 1000 | | 88.5 | 60-125 | 0.113 | 35 | |
| trans-1,3-Dichloropropene | 746 | 100 | ug/kg | 1000 | | 74.6 | 50-130 | 9.21 | 35 | |
| Ethylbenzene | 883 | 100 | ug/kg | 1000 | | 88.3 | 70-125 | 1.80 | 35 | |
| Hexachlorobutadiene | 684 | 250 | ug/kg | 1000 | | 68.4 | 60-125 | 32.6 | 35 | |
| 2-Hexanone | 709 | 500 | ug/kg | 1000 | | 70.9 | 25-185 | 9.15 | 35 | |
| Iodomethane | 751 | 100 | ug/kg | 1000 | | 75.1 | 30-155 | 0.534 | 35 | |
| Isopropylbenzene | 851 | 100 | ug/kg | 1000 | | 85.1 | 70-135 | 5.49 | 35 | |
| p-Isopropyltoluene | 862 | 100 | ug/kg | 1000 | | 86.2 | 65-130 | 2.41 | 35 | |
| Methylene chloride | 917 | 500 | ug/kg | 1000 | | 91.7 | 60-140 | 2.80 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 777 | 500 | ug/kg | 1000 | | 7 7.7 | 10-175 | 0.00 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | 752 | 250 | ug/kg | 1000 | | 75.2 | 55-135 | 6.81 | 35 | |
| Naphthalene | 696 | 250 | ug/kg | 1000 | | 69.6 | 45-155 | 12.4 | 35 | |
| n-Propylbenzene | 885 | 100 | ug/kg | 1000 | | 88.5 | 75-135 | 1.01 | 35 | |
| Styrene | 841 | 100 | ug/kg | 1000 | | 84.1 | 70-130 | 6.67 | 35 | |
| 1,1,1,2-Tetrachloroethane | 812 | 250 | ug/kg | 1000 | | 81.2 | 70-130 | 5.86 | 35 | |
| 1,1,2,2-Tetrachloroethane | 780 | 100 | ug/kg | 1000 | | 78.0 | 60-140 | 2.41 | 35 | |
| Tetrachloroethene | 824 | 100 | ug/kg | 1000 | | 82.4 | 65-130 | 8.82 | 35 | |
| Toluene | 830 | 100 | ug/kg | 1000 | | 83.0 | 70-125 | 7.98 | 35 | |
| 1,2,3-Trichlorobenzene | 680 | 250 | ug/kg | 1000 | | 68.0 | 60-135 | 15.5 | 35 | |
| 1,2,4-Trichlorobenzene | 772 | 250 | ug/kg | 1000 | | 7 7. 2 | 55-135 | 7.00 | 35 | |
| 1,1,1-Trichloroethane | 821 | 100 | ug/kg | 1000 | | 82.1 | 65-135 | 4.06 | 35 | |
| 1,1,2-Trichloroethane | 780 | 100 | ug/kg | 1000 | | 78.0 | 65-130 | 9.41 | 35 | |
| Trichloroethene | 879 | 100 | ug/kg | 1000 | | 87.9 | 70-130 | 1.92 | 35 | |
| Trichlorofluoromethane | 709 | 250 | ug/kg | 1000 | | 70.9 | 10-200 | 2.72 | 35 | |
| 1,2,3-Trichloropropane | 753 | 500 | ug/kg | 1000 | | 75.3 | 60-150 | 4.29 | 35 | |
| 1,2,4-Trimethylbenzene | 905 | 100 | ug/kg | 1000 | | 90.5 | 75-130 | 0.221 | 35 | |
| 1,3,5-Trimethylbenzene | 890 | 100 | ug/kg | 1000 | | 89.0 | 70-130 | 0.450 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 67.6 | 25-130 | 1.79 | 35 | |
| Vinyl chloride | 758 | 250 | ug/kg | 1000 | | 75.8 | 10-200 | 6.14 | 35 | |
| Xylenes, Total | 2510 | 150 | ug/kg | 3000 | | 83.7 | 70-130 | 6.55 | 35 | |
| Surrogate: Dibromofluoromethane | 1080 | | ug/kg | 1250 | • | 86.4 | 70-125 | | | |
| Surrogate: Toluene-d8 | 1090 | | ug/kg | 1250 | | 87.2 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 1170 | | ug/kg | 1250 | | 93.6 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKH0511

Received: 08/29/01

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--|----------------------------------|---|---|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/09/ | <u>/01</u> | | | | | | | | | |
| Blank Analyzed: 09/09/01 (P1I1002-1 | BLK1) | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | | | | | | | | | |
| tert-Butylbenzene | ND | | _ | | | | | | | |
| Carbon Disulfide | ND | | _ | | | | | | | |
| Carbon tetrachloride | ND | | | | | | | | | |
| Chlorobenzene | ND | | _ | | | | | | | |
| Chloroethane | ND | | = | | | | | | | |
| Chloroform | ND | | | | | | | | | |
| Chloromethane | | | _ | | | | | | | |
| 2-Chlorotoluene | ND | | | | | | | | | |
| 4-Chlorotoluene | ND | | _ | | | | | | | |
| Dibromochloromethane | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | _ | | | | | | | |
| 1,2-Dibromoethane (EDB) | | | | | | | | | | |
| Dibromomethane | | | _ | | | | | | | |
| 1,2-Dichlorobenzene | | | | | | | | | | |
| I,3-Dichlorobenzene | | | _ | | | | | | | |
| 1,4-Dichlorobenzene | | | _ | | | | | | | |
| Dichlorodifluoromethane | | | _ | | | | | | | |
| 1,1-Dichloroethane | | | | | | | | | | |
| 1,2-Dichloroethane | | | | | | | | | | |
| 1,1-Dichloroethene | | | _ | | | | | | | |
| cis-1,2-Dichloroethene | | | | | | | | | | |
| | | | _ | | | | | | | |
| | | | | | | | | | | |
| 1,3-Dichloropropane | | | _ | | | | | | | |
| - • | | 2.0 | ug/I | | | | | | | |
| tert-Butylbenzene Carbon Disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromochloromethane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane | ND ND ND ND ND ND | 5.0 5.0 5.0 5.0 2.0 5.0 2.0 5.0 5.0 2.0 5.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2 | ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

RPD

Data

Report Number:

Reporting

PKH0511

MDI HODBEANKOC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Spike

Source

%REC

| | | Reporting | | Spike | Source | | 70 KEC | | KPD | Data |
|-----------------------------------|---------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/0 | 9/01 | | | | | | | | | |
| Blank Analyzed: 09/09/01 (P1I1002 | 2-BLK1) | | | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/I | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| lodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| Surrogate: Dibromofluoromethane | 27.9 | | ug/l | 25.0 | | 112 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.5 | | ug/l | 25.0 | | 106 | 80-120 | | | |
| | | | | | | | | | | |

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

Report Number:

PKH0511

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|----------|-----------|--------------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/09/01 | <u>L</u> | | | | | | | | | |
| Blank Analyzed: 09/09/01 (P1I1002-BL | .К1) | | | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 26.4 | | ug/l | 25.0 | | 106 | 80-120 | | | |
| LCS Analyzed: 09/09/01 (P1I1002-BS1) |) | | | | | | | | | |
| Acetone | 28.0 | 20 | ug/l | 25.0 | | 112 | 30-200 | | | |
| Benzene | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| Bromobenzene | 25.1 | 5.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| Bromochloromethane | 28.3 | 5.0 | ug/i | 25.0 | | 113 | 80-120 | | | |
| Bromodichloromethane | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 80-130 | | | |
| Bromoform | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 60-140 | | | |
| Bromomethane | 28.5 | 5.0 | ug/l | 25.0 | | 114 | 60-150 | | | |
| 2-Butanone (MEK) | 28.9 | 10 | ug/l | 25.0 | | 116 | 30-185 | | | |
| n-Butylbenzene | 24.6 | 5.0 | ug/l | 25.0 | | 98.4 | 75-130 | | | |
| sec-Butylbenzene | 25.0 | 5.0 | ug/l | 25.0 | | 100 | 80-125 | | | |
| tert-Butylbenzene | 24.7 | 5.0 | ug/i | 25.0 | | 98.8 | 80-120 | | | |
| Carbon Disulfide | 23.0 | 5.0 | ug /1 | 25.0 | | 92.0 | 65-120 | | | |
| Carbon tetrachloride | 28.8 | 5.0 | ug/l | 25.0 | | 115 | 75-150 | | | |
| Chlorobenzene | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| Chloroethane | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 80-125 | | | |
| Chloroform | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| Chloromethane | 21.7 | 5.0 | ug/l | 25.0 | | 86.8 | 60-125 | | | |
| 2-Chlorotoluene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 80-120 | | | |
| 4-Chlorotoluene | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 80-120 | | | |
| Dibromochloromethane | 28.1 | 2.0 | ug/l | 25.0 | | 112 | 70-150 | | | |
| 1,2-Dibromo-3-chloropropane | 24.3 | 5.0 | ug/i | 25.0 | | 97.2 | 50-145 | | | |
| 1,2-Dibromoethane (EDB) | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 75-120 | | | |
| Dibromomethane | 26.3 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| 1,2-Dichlorobenzene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| 1,3-Dichlorobenzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| 1,4-Dichlorobenzene | 26.0 | 2.0 | ug/i | 25.0 | | 104 | 80-120 | | | |
| Dichlorodifluoromethane | 23.0 | 5.0 | ug/l | 25.0 | | 92.0 | 25-140 | | | |
| 1,1-Dichloroethane | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 1,2-Dichloroethane | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 1,1-Dichloroethene | 26.2 | 5.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| cis-1,2-Dichloroethene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| trans-1,2-Dichloroethene | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| 1,2-Dichloropropane | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| 1,3-Dichloropropane | 25.6 | 2.0 | ug/i | 25.0 | | 102 | 80-120 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

Report Number:

PKH0511

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/09/0 | 1_ | | | • | | | | | | |
| LCS Analyzed: 09/09/01 (P1I1002-BS1 |) | | | | | | | | | |
| 2,2-Dichloropropane | 30.2 | 2.0 | ug/l | 25.0 | | 121 | 75-135 | | | |
| 1,1-Dichloropropene | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| cis-1,3-Dichloropropene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| trans-1,3-Dichloropropene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Ethylbenzene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| Hexachlorobutadiene | 22. 3 | 5.0 | ug/l | 25.0 | | 89.2 | 60-145 | | | |
| 2-Hexanone | 27.8 | 10 | ug/l | 25.0 | | 111 | 50-170 | | | |
| Iodomethane | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 40-155 | | | |
| Isopropylbenzene | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 80-120 | | | |
| p-Isopropyltoluene | 24.1 | 2.0 | ug/l | 25.0 | | 96.4 | 80-120 | | | |
| Methylene chloride | 26.9 | 5.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 25.8 | 10 | ug/l | 25.0 | | 103 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 28.4 | 5.0 | ug/l | 25.0 | | 114 | 75-135 | | | |
| Naphthalene | 22.6 | 5.0 | ug/l | 25.0 | | 90.4 | 70-130 | | | |
| n-Propylbenzene | 25.7 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| Styrene | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 27.9 | 5.0 | ug/l | 25.0 | | 112 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 70-130 | | | |
| Tetrachloroethene | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 80-125 | | | |
| Toluene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 22.4 | 5.0 | ug/l | 25.0 | | 89.6 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 23.8 | 5.0 | ug/l | 25.0 | | 95.2 | 80-120 | | | |
| 1,1,1-Trichloroethane | 27.5 | 2.0 | ug/l | 25.0 | | 110 | 80-120 | | | |
| 1,1,2-Trichloroethane | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Trichloroethene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| Trichlorofluoromethane | 30.4 | 5.0 | ug/l | 25.0 | | 122 | 75-150 | | | |
| 1,2,3-Trichloropropane | 23.8 | 10 | ug/l | 25.0 | | 95.2 | 65-135 | | | |
| 1,2,4-Trimethylbenzene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 80-120 | | | |
| Vinyl acetate | 29.8 | 25 | ug/l | 25.0 | | 119 | 40-120 | | | |
| Vinyl chloride | 28.8 | 5.0 | ug/l | 25.0 | | 115 | 80-120 | | | |
| Xylenes, Total | 77.9 | 10 | ug/l | 75.0 | | 104 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 28.8 | | ug/l | 25.0 | | 115 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.6 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.1 | | ug/l | 25.0 | | 104 | 80-120 | | | |

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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

METHOD BLANKIOC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|----------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/09/0 | <u>1</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/09/01 (P1I1002 | -BSD1) | | | | | | | | | |
| Acetone | 31.0 | 20 | ug/l | 25.0 | | 124 | 30-200 | 10.2 | 20 | |
| Benzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 0.399 | 20 | |
| Bromobenzene | 25.7 | 5.0 | ug/l | 25.0 | | 103 | 80-120 | 2.36 | 20 | |
| Bromochloromethane | 29.1 | 5.0 | ug/l | 25.0 | | 116 | 80-120 | 2.79 | 20 | |
| Bromodichloromethane | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 80-130 | 0.743 | 20 | |
| Bromoform | 28.0 | 5.0 | ug/l | 25.0 | | 112 | 60-140 | 3.27 | 20 | |
| Bromomethane | 28.0 | 5.0 | ug/l | 25.0 | | 112 | 60-150 | 1.77 | 20 | |
| 2-Butanone (MEK) | 29.4 | 10 | ug/l | 25.0 | | 118 | 30-185 | 1.72 | 20 | |
| n-Butylbenzene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 75-130 | 0.810 | 20 | |
| sec-Butylbenzene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 80-125 | 0.401 | 20 | |
| tert-Butylbenzene | 24.6 | 5.0 | ug/l | 25.0 | | 98.4 | 80-120 | 0.406 | 20 | |
| Carbon Disulfide | 22.2 | 5.0 | ug/l | 25.0 | | 88.8 | 65-120 | 3.54 | 20 | |
| Carbon tetrachloride | 28.2 | 5.0 | ug/l | 25.0 | | 113 | 75-150 | 2.11 | 20 | |
| Chlorobenzene | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 0.00 | 20 | |
| Chloroethane | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 80-125 | 0.806 | 20 | |
| Chloroform | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 1.49 | 20 | |
| Chloromethane | 21.4 | 5.0 | ug/l | 25.0 | | 85.6 | 60-125 | 1.39 | 20 | |
| 2-Chlorotoluene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 80-120 | 0.00 | 20 | |
| 4-Chlorotoluene | 25.1 | 5.0 | ug/l | 25.0 | | 100 | 80-120 | 1.61 | 20 | |
| Dibromochloromethane | 28.7 | 2.0 | ug/l | 25.0 | | 115 | 70-150 | 2.11 | 20 | |
| 1,2-Dibromo-3-chloropropane | 24.5 | 5.0 | ug/l | 25.0 | | 98.0 | 50-145 | 0.820 | 20 | |
| 1,2-Dibromoethane (EDB) | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 75-120 | 3.77 | 20 | |
| Dibromomethane | 28.2 | 2.0 | ug/l | 25.0 | | 113 | 80-120 | 6.97 | 20 | |
| 1,2-Dichlorobenzene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 2.73 | 20 | |
| 1,3-Dichlorobenzene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.58 | 20 | |
| 1,4-Dichlorobenzene | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 1.53 | 20 | |
| Dichlorodifluoromethane | 21.8 | 5.0 | ug/l | 25.0 | | 87.2 | 25-140 | 5.36 | 20 | |
| 1,1-Dichloroethane | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 0.00 | 20 | |
| 1,2-Dichloroethane | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 80-120 | 4.44 | 20 | |
| 1,1-Dichloroethene | 25.5 | 5.0 | ug/l | 25.0 | | 102 | 80-120 | 2.71 | 20 | |
| cis-1,2-Dichloroethene | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 2.64 | 20 | |
| trans-1,2-Dichloroethene | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 2.99 | 20 | |
| 1,2-Dichloropropane | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 2.35 | 20 | |
| 1,3-Dichloropropane | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 3.45 | 20 | |
| 2,2-Dichloropropane | 28.0 | 2.0 | ug/l | 25.0 | | 112 | 75-135 | 7.56 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

METHOD BLANKIQC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|----------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P111002 Extracted: 09/09/0 | <u>1</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/09/01 (P1I100) | 2-BSD1) | | | | | | | | | |
| 1,1-Dichloropropene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.17 | 20 | |
| cis-1,3-Dichloropropene | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 1.52 | 20 | |
| trans-1,3-Dichloropropene | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 0.391 | 20 | |
| Ethylbenzene | 25.8 | 2.0 | ug/i | 25.0 | | 103 | 80-120 | 0.772 | 20 | |
| Hexachlorobutadiene | 23.1 | 5.0 | ug/l | 25.0 | | 92.4 | 60-145 | 3.52 | 20 | |
| 2-Hexanone | 28.2 | 10 | ug/l | 25.0 | | 113 | 50-170 | 1.43 | 20 | |
| Iodomethane | 27.6 | 2.0 | ug/l | 25.0 | | 110 | 40-155 | 0.00 | 20 | |
| Isopropyibenzene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | 2.26 | 20 | |
| p-Isopropyltoluene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | 0.826 | 20 | |
| Methylene chloride | 27.8 | 5.0 | ug/l | 25.0 | | 111 | 80-120 | 3.29 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 27.0 | 10 | ug/l | 25.0 | | 108 | 70-140 | 4.55 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 28.1 | 5.0 | ug/l | 25.0 | | 112 | 75-135 | 1.06 | 20 | |
| Naphthalene | 23.7 | 5.0 | ug/l | 25.0 | | 94.8 | 70-130 | 4.75 | 20 | X. |
| n-Propylbenzene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.17 | 20 | |
| Styrene | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 0.00 | 20 | |
| 1,1,1,2-Tetrachloroethane | 28.3 | 5.0 | ug/l | 25.0 | | 113 | 65-150 | 1.42 | 20 | |
| 1,1,2,2-Tetrachloroethane | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 70-130 | 2.73 | 20 | |
| Tetrachloroethene | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 80-125 | 0.370 | 20 | |
| Toluene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 0.394 | 20 | |
| 1,2,3-Trichlorobenzene | 24.0 | 5.0 | ug/l | 25.0 | | 96.0 | 75-125 | 6.90 | 20 | |
| 1,2,4-Trichlorobenzene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 80-120 | 5.71 | 20 | |
| 1,1,1-Trichloroethane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 2.21 | 20 | |
| 1,1,2-Trichloroethane | 26.7 | 2.0 | ug/l | 25.0 | | 107 | 80-120 | 4.99 | 20 | |
| Trichloroethene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 2.39 | 20 | |
| Trichlorofluoromethane | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 75-150 | 11.5 | 20 | |
| 1,2,3-Trichloropropane | 24.6 | 10 | ug/l | 25.0 | | 98.4 | 65-135 | 3.31 | 20 | |
| 1,2,4-Trimethylbenzene | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.18 | 20 | |
| 1,3,5-Trimethylbenzene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 0.404 | 20 | |
| Vinyl acetate | 30.0 | 25 | ug/l | 25.0 | | 120 | 40-120 | 0.669 | 20 | |
| Vinyl chloride | 26.2 | 5.0 | ug/l | 25.0 | | 105 | 80-120 | 9.45 | 20 | |
| Xylenes, Total | 77.6 | 10 | ug/l | 75.0 | | 103 | 80-120 | 0.386 | 20 | |
| Surrogate: Dibromofluoromethane | 29.2 | | ug/l | 25.0 | | 117 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.6 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 26.3 | | ug/l | 25.0 | | 105 | 80-120 | | | |

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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

er: PKH0511

Received: 08/29/01

METHOD BLANK QC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|---------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/09/ | 01 | | | | | | | | | - |
| Matrix Spike Analyzed: 09/09/01 (P1 | I1002-MS1) | | | | Source: P | KH0535- | 02 | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 41.6 | 5-200 | | | |
| Benzene | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 80-120 | | | |
| Bromobenzene | 24.0 | 5.0 | ug/l | 25.0 | ND | 96.0 | 80-120 | | | |
| Bromochloromethane | 24.4 | 5.0 | ug/l | 25.0 | ND | 97.6 | 60-135 | | | |
| Bromodichloromethane | 25.7 | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |
| Bromoform | 20.2 | 5.0 | ug/l | 25.0 | ND | 80.8 | 40-140 | | | |
| Bromomethane | 11.9 | 5.0 | ug/l | 25.0 | ND | 47.6 | 25-165 | | | |
| 2-Butanone (MEK) | 12.1 | 10 | ug/l | 25.0 | ND | 48.4 | 10-160 | | | |
| n-Butylbenzene | 21.8 | 5.0 | ug/l | 25.0 | ND | 87.2 | 75-135 | | | |
| sec-Butylbenzene | 22.4 | 5.0 | ug/l | 25.0 | ND | 89.6 | 80-135 | | | • |
| tert-Butylbenzene | 23.0 | 5.0 | ug/l | 25.0 | ND | 92.0 | 80-125 | | | |
| Carbon Disulfide | 10.5 | 5.0 | ug/l | 25.0 | ND | 42.0 | 20-120 | | | |
| Carbon tetrachloride | 26.7 | 5.0 | ug/l | 25.0 | ND | 107 | 80-145 | | | |
| Chlorobenzene | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| Chloroethane | 15.5 | 5.0 | ug/l | 25.0 | ND | 62.0 | 30-150 | | | |
| Chloroform | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 80-125 | | | |
| Chloromethane | 6.06 | 5.0 | ug/l | 25.0 | ND | 24.2 | 15-140 | | | |
| 2-Chlorotoluene | 23.9 | 5.0 | ug/l | 25.0 | ND | 95.6 | 80-124 | | | |
| 4-Chlorotoluene | 23.7 | 5.0 | ug/l | 25.0 | ND | 94.8 | 80-125 | | | |
| Dibromochloromethane | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 75-135 | | | |
| 1,2-Dibromo-3-chloropropane | 13.7 | 5.0 | ug/l | 25.0 | ND | 54.8 | 25-185 | | | |
| 1,2-Dibromoethane (EDB) | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 45-145 | | | |
| Dibromomethane | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 55-140 | | | |
| 1,2-Dichlorobenzene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 80-120 | | | |
| 1,3-Dichlorobenzene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 80-120 | | | |
| 1,4-Dichlorobenzene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 80-120 | | | |
| Dichlorodifluoromethane | 10.0 | 5.0 | ug/l | 25.0 | ND | 40.0 | 25-145 | | | |
| 1,1-Dichloroethane | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 75-120 | | | |
| 1,2-Dichloroethane | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 60-135 | | | |
| 1,1-Dichloroethene | 20.1 | 5.0 | ug/l | 25.0 | ND | 80.4 | 55-120 | | | |
| cis-1,2-Dichloroethene | 32.8 | 2.0 | ug/l | 25.0 | 9.3 | 94.0 | 75-120 | | | |
| trans-1,2-Dichloroethene | 21.2 | 2.0 | ug/l | 25.0 | ND | 84.8 | 65-120 | | | |
| 1,2-Dichloropropane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 80-125 | | | |
| 1,3-Dichloropropane | 21.8 | 2.0 | ug/l | 25.0 | ND | 87.2 | 55-140 | | | |
| 2,2-Dichloropropane | 29.4 | 2.0 | ug/l | 25.0 | ND | 118 | 45-165 | | | |
| | | | | | | | | | | |



% DEC

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

DPD

MUTHOD BUSKKOCDŠUA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|--------------|-----------|-------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/0 | 9/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/09/01 (| P1I1002-MS1) | | | | Source: I | YKH0535- | 02 | | | |
| 1,1-Dichloropropene | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 80-120 | | | |
| cis-1,3-Dichloropropene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | | | |
| trans-1,3-Dichloropropene | 21.4 | 2.0 | ug/l | 25.0 | ND | 85.6 | 70-120 | | | |
| Ethylbenzene | 25.9 | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| Hexachlorobutadiene | 18.1 | 5.0 | ug/l | 25.0 | ND | 72.4 | 80-135 | | | M2 |
| 2-Hexanone | 14.8 | 10 | ug/l | 25.0 | ND | 59.2 | 25-185 | | | |
| Iodomethane | 17.3 | 2.0 | ug/l | 25.0 | ND | 69.2 | 30-155 | | | |
| lsopropylbenzene | 25.9 | 2.0 | ug/l | 25.0 | ND | 104 | 80-125 | | | |
| p-lsopropyltoluene | 21.6 | 2.0 | ug/l | 25.0 | ND | 86.4 | 80-125 | | | |
| Methylene chloride | 20.1 | 5.0 | ug/l | 25.0 | ND | 80.4 | 55-125 | | | |
| 4-Methyl-2-pentanone (MIBK) | 18.5 | 10 | ug/l | 25.0 | ND | 74.0 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.2 | 5.0 | ug/l | 25.0 | ND | 92.8 | 55-135 | | | |
| Naphthalene | 12.9 | 5.0 | ug/l | 25.0 | ND | 51.6 | 15-160 | | | |
| n-Propylbenzene | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 80-130 | | | |
| Styrene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 60-135 | | | |
| 1,1,1,2-Tetrachloroethane | 26.5 | 5.0 | ug/l | 25.0 | ND | 106 | 80-135 | | | |
| 1,1,2,2-Tetrachloroethane | 14.9 | 2.0 | ug/l | 25.0 | ND | 59.6 | 35-150 | | | |
| Tetrachloroethene | 28.0 | 2.0 | ug/l | 25.0 | ND | 112 | 80-120 | | | |
| Toluene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 14.8 | 5.0 | ug/l | 25.0 | ND | 59.2 | 45-145 | | | |
| 1,2,4-Trichlorobenzene | 18.8 | 5.0 | ug/l | 25.0 | ND | 75.2 | 65-130 | | | |
| 1,1,1-Trichloroethane | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | | | |
| 1,1,2-Trichloroethane | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 55-145 | | | |
| Trichloroethene | 28.3 | 2.0 | ug/l | 25.0 | ND | 113 | 80-120 | | | |
| Trichlorofluoromethane | 24.3 | 5.0 | ug/l | 25.0 | ND | 97.2 | 70-145 | | | |
| 1,2,3-Trichloropropane | 17.5 | 10 | ug/l | 25.0 | ND | 70.0 | 20-160 | | | |
| 1,2,4-Trimethylbenzene | 23.3 | 2.0 | ug/l | 25.0 | ND | 93.2 | 70-135 | | | |
| 1,3,5-Trimethylbenzene | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 80-125 | | | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | ND | | 25-130 | | | N2 |
| Vinyl chloride | 13.0 | 5.0 | ug/l | 25.0 | ND | 52.0 | 25-135 | | | |
| Xylenes, Total | 77.0 | 10 | ug/l | 75.0 | ND | 103 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 24.4 | | ug/l | 25.0 | | 97.6 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.8 | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 25.6 | | ug/l | 25.0 | | 102 | 80-120 | | | |
| | | | | | | | | | | |

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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Attention: Jim Clarke

Report Number:

PKH0511

Received: 08/29/01

MELHOD BLANK OCDATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|--------------|-----------|-------|-------|-----------|--------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/09 | <u>/01</u> | | | | | | | | | • |
| Matrix Spike Dup Analyzed: 09/09/0 | 1 (P1I1002-M | SD1) | | | Source: P | KH0535 | -02 | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 62.4 | 5-200 | 40.0 | 20 | R4 |
| Benzene | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 80-120 | 1.29 | 20 | 104 |
| Bromobenzene | 23.3 | 5.0 | ug/l | 25.0 | ND | 93.2 | 80-120 | 2.96 | 20 | |
| Bromochloromethane | 24.9 | 5.0 | ug/l | 25.0 | ND | 99.6 | 60-135 | 2.03 | 20 | |
| Bromodichloromethane | 25.4 | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | 1.17 | 20 | |
| Bromoform | 23.4 | 5.0 | ug/l | 25.0 | ND | 93.6 | 40-140 | 14.7 | 20 | |
| Bromomethane | 12.6 | 5.0 | ug/l | 25.0 | ND | 50.4 | 25-165 | 5.71 | 20 | |
| 2-Butanone (MEK) | 14.0 | 10 | ug/l | 25.0 | ND | 56.0 | 10-160 | 14.6 | 20 | |
| n-Butylbenzene | 21.9 | 5.0 | ug/l | 25.0 | ND | 87.6 | 75-135 | 0.458 | 20 | |
| sec-Butylbenzene | 22.2 | 5.0 | ug/l | 25.0 | ND | 88.8 | 80-135 | 0.897 | 20 | |
| tert-Butylbenzene | 22.3 | 5.0 | ug/l | 25.0 | ND | 89.2 | 80-125 | 3.09 | 20 | |
| Carbon Disulfide | 10.6 | 5.0 | ug/l | 25.0 | ND | 42.4 | 20-120 | 0.948 | 20 | |
| Carbon tetrachloride | 27.1 | 5.0 | ug/l | 25.0 | ND | 108 | 80-145 | 1.49 | 20 | |
| Chlorobenzene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | 1.55 | 20 | |
| Chloroethane | 15.9 | 5.0 | ug/l | 25.0 | ND | 63.6 | 30-150 | 2.55 | 20 | |
| Chloroform | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 80-125 | 0.784 | 20 | |
| Chloromethane | 6.17 | 5.0 | ug/l | 25.0 | ND | 24.7 | 15-140 | 1.80 | 20 | |
| 2-Chlorotoluene | 23.1 | 5.0 | ug/l | 25.0 | ND | 92.4 | 80-124 | 3.40 | 20 | |
| 4-Chlorotoluene | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 80-125 | 0.847 | 20 | |
| Dibromochloromethane | 25.7 | 2.0 | ug/l | 25.0 | ND | 103 | 75-135 | 6.01 | 20 | |
| 1,2-Dibromo-3-chloropropane | 18.8 | 5.0 | ug/l | 25.0 | ND | 75.2 | 25-185 | 31.4 | 20 | R4 |
| 1,2-Dibromoethane (EDB) | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 45-145 | 9.61 | 20 | |
| Dibromomethane | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 55-140 | 4.63 | 20 | |
| 1,2-Dichlorobenzene | 23.5 | 2.0 | ug/l | 25.0 | ND | 94.0 | 80-120 | 0.855 | 20 | |
| 1,3-Dichlorobenzene | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 80-120 | 0.851 | 20 | |
| 1,4-Dichlorobenzene | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 80-120 | 1.65 | 20 | |
| Dichlorodifluoromethane | 9.65 | 5.0 | ug/l | 25.0 | ND | 38.6 | 25-145 | 3.56 | 20 | |
| 1,1-Dichloroethane | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 75-120 | 1.27 | 20 | |
| 1,2-Dichloroethane | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 60-135 | 5.02 | 20 | |
| 1,1-Dichloroethene | 20.0 | 5.0 | ug/l | 25.0 | ND | 80.0 | 55-120 | 0.499 | 20 | |
| cis-1,2-Dichloroethene | 32.6 | 2.0 | ug/l | 25.0 | 9.3 | 93.2 | 75-120 | 0.612 | 20 | |
| trans-1,2-Dichloroethene | 21.3 | 2.0 | ug/l | 25.0 | ND | 85.2 | 65-120 | 0.471 | 20 | |
| 1,2-Dichloropropane | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 80-125 | 0.820 | 20 | |
| 1,3-Dichloropropane | 23.7 | 2.0 | ug/l | 25.0 | ND | 94.8 | 55-140 | 8.35 | 20 | |
| 2,2-Dichloropropane | 27.3 | 2.0 | ug/l | 25.0 | ND | 109 | 45-165 | 7.41 | 20 | |
| | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

% DEC

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

PPN

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|---------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1002 Extracted: 09/0 | <u>9/01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/09/ | 01 (P1I1002-M | SD1) | | | Source: I | PKH0535- | 02 | | | |
| 1,1-Dichloropropene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 80-120 | 0.425 | 20 | |
| cis-1,3-Dichloropropene | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 80-120 | 0.412 | 20 | |
| trans-1,3-Dichloropropene | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 70-120 | 5.45 | 20 | |
| Ethylbenzene | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | 0.385 | 20 | |
| Hexachlorobutadiene | 19.7 | 5.0 | ug/l | 25.0 | ND | 78.8 | 80-135 | 8.47 | 20 | M2 |
| 2-Hexanone | 20.4 | 10 | ug/l | 25.0 | ND | 81.6 | 25-185 | 31.8 | 20 | R4 |
| Iodomethane | 17.3 | 2.0 | ug/l | 25.0 | ND | 69.2 | 30-155 | 0.00 | 20 | |
| Isopropylbenzene | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 80-125 | 0.385 | 20 | |
| p-Isopropyltoluene | 21.2 | 2.0 | ug/l | 25.0 | ND | 84.8 | 80-125 | 1.87 | 20 | |
| Methylene chloride | 19.7 | 5.0 | ug/l | 25.0 | ND | 78.8 | 55-125 | 2.01 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 24.2 | 10 | ug/l | 25.0 | ND | 96.8 | 10-175 | 26.7 | 20 | R4 |
| Methyl-tert-butyl Ether (MTBE) | 23.9 | 5.0 | ug/l | 25.0 | ND | 95.6 | 55-135 | 2.97 | 20 | |
| Naphthalene | 17.4 | 5.0 | ug/l | 25.0 | ND | 69.6 | 15-160 | 29.7 | 20 | R4 |
| n-Propylbenzene | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 80-130 | 3.68 | 20 | |
| Styrene | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 60-135 | 0.823 | 20 | |
| 1,1,1,2-Tetrachloroethane | 26.5 | 5.0 | ug/l | 25.0 | ND | 106 | 80-135 | 0.00 | 20 | |
| 1,1,2,2-Tetrachloroethane | 16.7 | 2.0 | ug/l | 25.0 | ND | 66.8 | 35-150 | 11.4 | 20 | |
| Tetrachloroethene | 27.7 | 2.0 | ug/l | 25.0 | ND | 111 | 80-120 | 1.08 | 20 | |
| Toluene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 80-120 | 0.823 | 20 | |
| 1,2,3-Trichlorobenzene | 17.7 | 5.0 | ug/l | 25.0 | ND | 70.8 | 45-145 | 17.8 | 20 | |
| 1,2,4-Trichlorobenzene | 20.8 | 5.0 | ug/l | 25.0 | ND | 83.2 | 65-130 | 10.1 | 20 | |
| 1,1,1-Trichloroethane | 26.5 | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | 0.378 | 20 | |
| 1,1,2-Trichloroethane | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 55-145 | 6.11 | 20 | |
| Trichloroethene | 29.5 | 2.0 | ug/l | 25.0 | ND | 118 | 80-120 | 4.15 | 20 | |
| Trichlorofluoromethane | 23.7 | 5.0 | ug/l | 25.0 | ND | 94.8 | 70-145 | 2.50 | 20 | |
| 1,2,3-Trichloropropane | 21.3 | 10 | ug/l | 25.0 | ND | 85.2 | 20-160 | 19.6 | 20 | |
| 1,2,4-Trimethylbenzene | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 70-135 | 0.428 | 20 | |
| 1,3,5-Trimethylbenzene | 22.8 | 2.0 | ug/l | 25.0 | ND | 91.2 | 80-125 | 1.74 | 20 | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | ND | 50.4 | 25-130 | | 20 | |
| Vinyl chloride | 13.4 | 5.0 | ug/l | 25.0 | ND | 53.6 | 25-135 | 3.03 | 20 | |
| Xylenes, Total | 77.8 | 10 | ug/l | 75.0 | ND | 104 | 80-120 | 1.03 | 20 | |
| Surrogate: Dibromofluoromethane | 23.9 | | ug/l | 25.0 | | 95.6 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.6 | | ug/l | 25.0 | | 106 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 24.8 | | ug/l | 25.0 | | 99.2 | 80-120 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Attention: Jim Clarke

Report Number: PKH0511

Received: 08/29/01

NETHOD BLANKIQC DATA

| Analyte | Result | Reporting Limit | TY24 | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------|--------------------|----------|-------|-----------|------|------------------|--------------|-------|------------|
| · | | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0616 Extracted: 09/06/0 | | | | | | | | | | |
| Blank Analyzed: 09/06/01 (P110616-Bl | .K1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Chromium | ND | 1.0 | mg/kg | | | | | | | |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | В4 |
| LCS Analyzed: 09/06/01 (P1I0616-BS1) |) | | | | | | | | | |
| Arsenic | 92.0 | 5.0 | mg/kg | 100 | | 92.0 | 80-120 | | | |
| Chromium | 92.4 | 1.0 | mg/kg | 100 | | 92.4 | 80-120 | | | |
| Copper | 96.8 | 2.0 | mg/kg | 100 | | 96.8 | 80-120 | | | |
| Nickel | 90.6 | 5.0 | mg/kg | 100 | | 90.6 | 80-120 | | | |
| Zinc | 93.7 | 5.0 | mg/kg | 100 | | 93.7 | 80-120 | | | |
| LCS Dup Analyzed: 09/06/01 (P110616- | -BSD1) | | 0 0 | | | ,,,, | 00-120 | | | |
| Arsenic | 90.7 | 5.0 | mg/kg | 100 | | 90.7 | 80-120 | 1.42 | 20 | |
| Chromium | 90.4 | 1.0 | mg/kg | 100 | | 90.4 | 80-120 | 2.19 | 20 | |
| Copper | 95.4 | 2.0 | mg/kg | 100 | | 95.4 | 80-120 | 1.46 | 20 | |
| Nickel | 88.6 | 5.0 | mg/kg | 100 | | 88.6 | 80-120 | 2.23 | 20 | |
| Zinc | 93.8 | 5.0 | mg/kg | 100 | | 93.8 | 80-120 | 0.107 | 20 | |
| Matrix Spike Analyzed: 09/06/01 (P110 | 616-MS1) | | | : | Source: P | | | 0.107 | 20 | |
| Arsenic | 95.2 | 5.0 | mg/kg | 100 | ND | 90.8 | 75-125 | | | |
| Chromium | 118 | 1.0 | mg/kg | 100 | 14 | 104 | 75-125 75-125 | | | |
| Copper | 208 | 2.0 | mg/kg | 100 | 80 | 128 | 75-125 | | | М3 |
| Nickel | 108 | 5.0 | mg/kg | 100 | 14 | 94.0 | 75-125 | | | IVIS |
| Zinc | 157 | 5.0 | mg/kg | 100 | 58 | 99.0 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/06/01 (| P110616-MS | SD1) | | • | Source: P | | | | | |
| Arsenic | 100 | 5.0 | mg/kg | 100 | ND | 95.6 | 75-125 | 4.92 | 20 | |
| Chromium | 110 | 1.0 | mg/kg | 100 | 14 | 96.0 | 75-125 | 7.02 | 20 | |
| Copper | 224 | 2.0 | mg/kg | 100 | 80 | 144 | 75-125 | 7.02 7.41 | 20 | M2 |
| Nickel | 106 | 5.0 | mg/kg | 100 | 14 | 92.0 | 75-125 | 1.87 | 20 | M3 |
| Zine | 176 | 5.0 | mg/kg | 100 | 58 | 118 | 75-125 75-125 | 1.87 | 20 | |
| | | | פרי סייי | 100 | 20 | 110 | 13-123 | 11.4 | 20 | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0713 Extracted: 09/07/0 | <u>)1</u> | | | | | | | | | |
| Blank Analyzed: 09/10/01 (P1I0713-B | LK1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Chromium | 2.99 | 1.0 | mg/kg | | | | | | | B1 |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 09/10/01 (P110713-BS | 1) | | | | | | | | | |
| Arsenic | 94.8 | 5.0 | mg/kg | 100 | | 94.8 | 80-120 | | | |
| Chromium | 95.6 | 1.0 | mg/kg | 100 | | 95.6 | 80-120 | | | |
| Copper | 97.6 | 2.0 | mg/kg | 100 | | 97.6 | 80-120 | | | |
| Nickel | 93.8 | 5.0 | mg/kg | 100 | | 93.8 | 80-120 | | | |
| Zinc | 96.3 | 5.0 | mg/kg | 100 | | 96.3 | 80-120 | | | |
| Matrix Spike Analyzed: 09/10/01 (P1I | 0713-MS1) | | | | Source: I | PKH0511- | -03 | | | |
| Arsenic | 88.9 | 5.0 | mg/kg | 100 | ND | 88.9 | 75-125 | | | |
| Chromium | 101 | 1.0 | mg/kg | 100 | 25 | 76.0 | 75-125 | | | |
| Copper | 108 | 2.0 | mg/kg | 100 | 13 | 95.0 | 75-125 | | | |
| Nickel | 97.5 | 5.0 | mg/kg | 100 | 32 | 65.5 | 75-125 | | | M2 |
| Zinc | 130 | 5.0 | mg/kg | 100 | 38 | 92.0 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/10/01 | (P1I0713-M | (SD1) | | | Source: 1 | PKH0511 | -03 | | | |
| Arsenic | 73.2 | 5.0 | mg/kg | 100 | ND | 73.2 | 75-125 | 19.4 | 20 | M2 |
| Chromium | 88.3 | 1.0 | mg/kg | 100 | 25 | 63.3 | 75-125 | 13.4 | 20 | M2 |
| Copper | 91.6 | 2.0 | mg/kg | 100 | 13 | 78.6 | 75-125 | 16.4 | 20 | |
| Nickel | 82.6 | 5.0 | mg/kg | 100 | 32 | 50.6 | 75-125 | 16.5 | 20 | M2 |
| Zinc | 114 | 5.0 | mg/kg | 100 | 38 | 76.0 | 75-125 | 13.1 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Attention: Jim Clarke

Report Number:

PKH0511

Received: 08/29/01

METHOD BLANK/QC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0722 Extracted: 09/07/01 | <u>-</u> | | | | | | | | | |
| Blank Analyzed: 09/07/01 (P1I0722-BL | K1) | | | | | | | | | |
| Chromium VI | ND | 1.0 | mg/kg | | | | | | | |
| LCS Analyzed: 09/07/01 (P1I0722-BS1) | • | | | | | | | | | |
| Chromium VI | 9.48 | 1.0 | mg/kg | 10.0 | | 94.8 | 85-115 | | | |
| Matrix Spike Analyzed: 09/07/01 (P110 | 722-MS1) | | | | Source: F | KH0511- | 01 | | | |
| Chromium VI | 9.23 | 1.0 | mg/kg | 10.0 | ND | 89.3 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 09/07/01 (| P110722-MS | D1) | | | Source: F | PKH0511- | 01 | | | |
| Chromium VI | 9.23 | 1.0 | mg/kg | 10.0 | ND | 89.3 | 85-115 | 0.00 | 20 | |
| Batch: P1I1410 Extracted: 09/14/01 | <u> </u> | | | | | | | | | |
| Blank Analyzed: 09/14/01 (P1I1410-BL | K1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Chromium | ND | 1.0 | mg/kg | | | | | | | |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 09/14/01 (P1I1410-BS1) |) | | | | | | | | | |
| Arsenic | 91.2 | 5.0 | mg/kg | 100 | | 91.2 | 80-120 | | | |
| Chromium | 95.3 | 1.0 | mg/kg | 100 | | 95.3 | 80-120 | | | |
| Copper | 100 | 2.0 | mg/kg | 100 | | 100 | 80-120 | | | |
| Nickel | 93.7 | 5.0 | mg/kg | 100 | | 93.7 | 80-120 | | | |
| LCS Dup Analyzed: 09/14/01 (P1I1410- | ·BSD1) | | | | | | | | | |
| Arsenic | 91.3 | 5.0 | mg/kg | 100 | | 91.3 | 80-120 | 0.110 | 20 | |
| Chromium | 96.4 | 1.0 | mg/kg | 100 | | 96.4 | 80-120 | 1.15 | 20 | |
| Copper | 99.7 | 2.0 | mg/kg | 100 | | 99.7 | 80-120 | 0.300 | 20 | |
| Nickel | 94.3 | 5.0 | mg/kg | 100 | | 94.3 | 80-120 | 0.638 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|------------|-----------|-------|-------|-----------|-----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1410 Extracted: 09/14/0 | <u>)1</u> | | | | | | | | | |
| Matrix Spike Analyzed: 09/14/01 (P1I | 1410-MS1) | | | | Source: I | KI0089-0 | 4RE1 | | | |
| Arsenic | 159 | 5.0 | mg/kg | 100 | ND | 159 | 75-125 | | | N2 |
| Chromium | 190 | 1.0 | mg/kg | 100 | 18 | 172 | 75-125 | | | N2 |
| Copper | 221 | 2.0 | mg/kg | 100 | 16 | 205 | 75-125 | | | N2 |
| Nickel | 171 | 5.0 | mg/kg | 100 | 9.7 | 161 | 75-125 | | | N2 |
| Matrix Spike Dup Analyzed: 09/14/01 | (P1I1410-M | ISD1) | | | Source: I | KI0089-0 | 4RE1 | | | |
| Arsenic | 22,2 | 5.0 | mg/kg | 100 | ND | 22.2 | 75-125 | 151 | 20 | N2,R1 |
| Chromium | 22.8 | 1.0 | mg/kg | 100 | 18 | 4.80 | 75-125 | 157 | 20 | N2,R1 |
| Copper | 24.6 | 2.0 | mg/kg | 100 | 16 | 8.60 | 75-125 | 160 | 20 | N2,R1 |
| Nickel | 21.1 | 5.0 | mg/kg | 100 | 9.7 | 11.4 | 75-125 | 156 | . 20 | N2,R1 |
| Batch: P1J0103 Extracted: 10/01/ | <u>01</u> | | | | | | | | | |
| Blank Analyzed: 10/02/01 (P1J0103-B | LK1) | | | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 10/02/01 (P1J0103-BS | 51) | | | | | | | | | |
| Zinc | 86.2 | 5.0 | mg/kg | 100 | | 86.2 | 80-120 | | | |
| Matrix Spike Analyzed: 10/02/01 (P1. | J0103-MS1) | | | | Source: I | PKI0288-1 | 19 | | | |
| Zinc | 142 | 5.0 | mg/kg | 100 | 29 | 113 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 10/02/01 | (P1J0103-N | ASD1) | | | Source: 1 | PKI0288-1 | 19 | | | |
| Zinc | 117 | 5.0 | mg/kg | 100 | 29 | 88.0 | 75-125 | 19.3 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Report Number:

PKH0511

Received: 08/29/01

METHOD RLANKQC DATA

TOTAL RECOVERABLE METALS

| Analyte Result Limit Units Level Result %REC Limits RPD Limit | Qualifiers |
|---|------------|
| Detals D117011 February 1, 00/20/01 | |
| <u>Batch: P1H3011 Extracted: 08/30/01</u> | |
| Blank Analyzed: 09/06/01 (P1H3011-BLK1) | |
| Arsenic ND 0.050 mg/l | |
| Chromium ND 0.010 mg/l | B1 |
| Copper ND 0.020 mg/l | 21 |
| Nickel ND 0.050 mg/l | |
| Zinc ND 0.050 mg/l | B4 |
| LCS Analyzed: 09/06/01 (P1H3011-BS1) | 2. |
| Arsenic 1.03 0.050 mg/l 1.00 103 85-115 | |
| Chromium 0.988 0.010 mg/l 1.00 98.8 85-115 | |
| Copper 1.05 0.020 mg/l 1.00 105 85-115 | |
| Nickel 0.980 0.050 mg/l 1.00 98.0 85-115 | |
| Zinc 1.02 0.050 mg/l 1.00 102 85-115 | |
| Matrix Spike Analyzed: 09/06/01 (P1H3011-MS1) Source: PKH0510-01 | |
| Arsenic 1.05 0.050 mg/l 1.00 ND 105 70-130 | |
| Chromium 0.999 0.010 mg/l 1.00 ND 98.9 70-130 | |
| Copper 1.04 0.020 mg/l 1.00 ND 104 70-130 | |
| Nickel 0.967 0.050 mg/l 1.00 ND 96.4 70-130 | |
| Zinc 1.22 0.050 mg/l 1.00 0.22 100 70-130 | |
| Matrix Spike Dup Analyzed: 09/06/01 (P1H3011-MSD1) Source: PKH0510-01 | |
| Arsenic 1.02 0.050 mg/l 1.00 ND 102 70-130 2.90 20 | |
| Chromium 0.976 0.010 mg/l 1.00 ND 96.6 70-130 2.33 20 | |
| Copper 1.01 0.020 mg/l 1.00 ND 101 70-130 2.93 20 | |
| Nickel 0.944 0.050 mg/l 1.00 ND 94.1 70-130 2.41 20 | |
| Zinc 1.19 0.050 mg/l 1.00 0.22 97.0 70-130 2.49 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

Attention: Jim Clarke

Report Number:

PKH0511

TOTAL RECOVERABLE METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------|-----------|-------|--------|-----------|---------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1H3101 Extracted: 08/30/0 | 1 | | | | | | | | | |
| Blank Analyzed: 08/30/01 (P1H3101-B) | LK1) | | | | | | | | | |
| Chromium VI | ND | 0.025 | mg/l | | | | | | | |
| LCS Analyzed: 08/30/01 (P1H3101-BS) | l) | | | | | | | | | |
| Chromium VI | 0.104 | 0.050 | mg/l | 0.100 | | 104 | 85-115 | | | |
| Matrix Spike Analyzed: 08/30/01 (P1H | 3101-MS1) | | | | Source: P | KH0511- | 13 | | | |
| Chromium VI | 0.0558 | 0.025 | mg/l | 0.0500 | ND | 112 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 08/30/01 (| P1H3101-MS | D1) | | | Source: P | KH0511- | 13 | | | |
| Chromium VI | 0.0521 | 0.025 | mg/l | 0.0500 | ND | 104 | 85-115 | 6.86 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: . 70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

Report Number:

PKH0511

NETHOD BLANK QC DATA

INORGANICS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P110611 Extracted: 09/06/03 | 1_ | | | | | | | | | |
| Blank Analyzed: 09/06/01 (P110611-BI | LK1) | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 09/06/01 (P110 |)611-MS1) | | | | Source: F | KH0448- | 05 | | | |
| Total Cyanide | 1.79 | 0.50 | mg/kg | 2.50 | ND | 71.6 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/06/01 | (P1I0611-M | SD1) | | | Source: F | KH0448- | 05 | | | |
| Total Cyanide | 1.31 | 0.50 | mg/kg | 2.50 | ND | 52.4 | 70-130 | 31.0 | 20 | M2,Q11 |
| Reference Analyzed: 09/06/01 (P110611 | I-SRM1) | | | | | | | | | ~ |
| Total Cyanide | 109 | 20 | mg/kg | 201 | | 54.2 | 40-160 | | | |
| Batch: P110709 Extracted: 09/07/01 | <u>1</u> | | | | | | | | | |
| Blank Analyzed: 09/07/01 (P110709-BI | .K1) | | | | | | | | | |
| Total Cyanide | ND | 0.020 | mg/l | | | | | | | |
| LCS Analyzed: 09/07/01 (P110709-BS1 |) | | _ | | | | | | | |
| Total Cyanide | 0.101 | 0.020 | mg/l | 0.100 | | 101 | 90-110 | | | |
| Matrix Spike Analyzed: 09/07/01 (P110 | 709-MS1) | | | | Source: F | KH0515- | 02 | | | |
| Total Cyanide | 0.155 | 0.020 | mg/l | 0.100 | 0.038 | 117 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/07/01 | (P110709-M | SD1) | _ | | Source: F | PKH0515- | 02 | | | |
| Total Cyanide | 0.170 | 0.020 | mg/l | 0.100 | 0.038 | 132 | 70-130 | 9.23 | 20 | M1 |
| Batch: P110720 Extracted: 09/07/01 | 1_ | | | | | | | | | |
| Blank Analyzed: 09/10/01 (P110720-BI | | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

Attention: Jim Clarke

PKH0511 Report Number:

INORGANICS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I0720 Extracted: 09/07/0 | 01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/10/01 (P1) | 10720-MS1) | | | | Source: P | KH0511- | 02 | | | |
| Total Cyanide | 2.95 | 0.50 | mg/kg | 2.50 | ND | 118 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/10/01 | (P1I0720-M | SD1) | | | Source: F | PKH0511- | 02 | | | |
| Total Cyanide | 2.45 | 0.50 | mg/kg | 2.50 | ND | 98.0 | 70-130 | 18.5 | 20 | |
| Reference Analyzed: 09/10/01 (P1I072 | 20-SRM1) | | | | | | | | | |
| Total Cyanide | 164 | 20 | mg/kg | 201 | | 81.6 | 40-160 | | | |
| | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 08/28/01-08/29/01

Received: 08/29/01

0 Report Number:

METHOD BLANK OC DATA

PKH0511

DATA QUALIFIERS AND DEFINITIONS

- B1 Target analyte detected in method blank at or above the method reporting limit.
- B4 Target analyte detected in blank at/above method acceptance criteria.
- M1 Matrix spike recovery was high, the method control sample recovery was acceptable.
- M2 Matrix spike recovery was low, the method control sample recovery was acceptable.
- M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
- N1 See case narrative.
- N2 See corrective action report.
- Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.
- R1 RPD exceeded the method control limit. See case narrative.
- R4 MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.
- R6 LFB/LFBD RPD exceeded the method control limit. Recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not reported.
- RPD Relative Percent Difference

Del Mår Analytical

CHAIN OF GUSTODY FORM

Quote #:

ō

| Circle Name Address. | | | | Analysis Required | red | | |
|----------------------|---------------------------|---------------------|---|-------------------|--------------|---------------------------|----------------------|
| L AND ENG | 10211-0+0150 | | | | | | |
| Project Manager. | Phone Number. 10250 | 13 1 149 | 7/VE | | · | | a. 3 - 4 |
| Sampler: | Fax Number: Start Fax Fax | B | i wh | . * | | | |
| * Sample C | | servatives (A A A | <i>(</i>) | | | | Special Instructions |
| 77-2-10 Son 5 | 10/8 How 1 | A SINON | × | | PKYO | 211 | 10 |
| 20 | | - | × | |) | | 00 |
| 3-5- | 1 | | X | | | | 50 |
| 122-6 - Co | 222 | Х | × - ?? | | | 2 | 10 |
| (| 70% | <i>y</i> | × | | | | <i>\$0</i> |
| | 7 - 253 | Y | × | | | | 8 |
| 5- 10 Can | ALC. I ZOZE | X | | | | <i>&</i> | 27 HOLD - |
| 1 20 1 | 7 | × | | | | | onal & |
| 1-6- | 2 2 | × | | | | | 24 |
| 1 | 22% | × | | | . Profession | | 5, |
| M | 3086 | * | | | | | |
| 182. | - X | \ \ \ | | | | | 3/64 |
| | | | | | |) | · . |
| 3-1-1-1 | 1/2/20 9 | × × | * | ¥ | | | 3. |
| Relinguished By: | 26/10 | Received by: | | Date /Time: | | Turnaround Time: same day | (Check) 72 hours |
| Refinduished By: Dat | | Received by: | | Date /Time: | **. | 24 hours 48 hours | 5 days |
| Relinquished By: Dai | | Received in Lab by: | د ادامه می دادند. در ادامه می دادند ادامه می دادند ادامه دادند ادامه دادند ادامه دادند ادامه دادند ادامه دادند دادند دادند دادند | Date /Time: | 10 10 18 | Sample Integrity: | (Check) |

due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

COC-GB



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID 70211-0-0150

Sampled: 09/11/01 Received: 09/11/01

Attention: Jim Clarke

Report Number: PKI0159

Revised: 11/27/01

Issued: 10/1/01-11/27/01

CIPALITY SEE FOR THE CONTROL OF THE

| LABORATORY | SAMPLE | SAMPLE |
|---------------|-----------------|---------|
| NUMBER | DESCRIPTION | MATRIX. |
| PKI0159-03 | LB4 S-30 | Soil |
| PKI0159-04 | LB4 S-40 | Soil |
| PKI0159-06 | RINSATE 9/11/01 | Water |
| PKI0159-07 | LB4 S-10 | Soil |
| PKI0159-07RE2 | LB4 S-10 | Soil |
| PKI0159-08 | LB4 S-20 | Soil |
| PKI0159-08RE2 | LB4 S-20 | Soil |
| PKI0159-09 | LB4 S-30 | Soil |
| PKI0159-09RE2 | LB4 S-30 | Soil |
| PKI0159-10 | LB4 S-40 | Soil |
| PKI0159-10RE1 | LB4 S-40 | Soil |
| PKI0159-11 | LB4 S-50 | Soil |
| PKI0159-11RE1 | LB4 S-50 | Soil |

SAMPLE RECEIPT:

Samples were received intact, on ice, and with chain of custody documentation. Soil samples requiring volatile analysis were

received in Encore Container(s).

HOLDING TIMES:

Holding times were met.

PRESERVATION:

Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS:

Report was revised 11/27/01 to include an LCS Duplicate for 8260 soils.

SUBCONTRACTED:

No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA:

The N2 flag on 8260 indicates that one or more QC parameters were outside of laboratory acceptance criteria. Please see

Corrective Action Report. The R1 flag on Cyanide indicates that the RPD exceeded the method control limit. See Corrective

Action Report.

EXPLANATION OF DATA

QUALIFIERS:

The D1 flag on ICP Arsenic indicates that the reporting limit was raised due to sample matrix effects.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Como for:

Debbie Fuller

Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

PKI0159 Page 1 of 39

2852 Alton Ave., Irvine, CA 92606 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689

(949) 261-1022 FAX (949) 261-1228 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

CORRECTIVE ACTION REPORT

Department:

GC/MS

Method:

8260B

Date:

09/17/2001

Matrix:

Soil

Batch:

P1I1201

Samples:

PKI0123-01 - PKI0123-05, PKI0169-02, PKI0130-01 - PKI0130-03 &

PKI0159-03 - PKI0159-04

Identification and Definition of Problem:

1,2-Dibromo-3-chloropropane recovered low (43%) and outside of the 50-155% acceptance limits in the Laboratory Control Sample Duplicate (LCSD). There is no MTBE spike data available for the above batch.

Determination of the Cause of the Problem:

The cause of the low recovery in the LCSD could not be determined. The analyst who prepared the spiking standard inadvertently did not add MTBE to the spiking mix.

Corrective Action:

The Laboratory Control Sample (LCS), Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recovered within acceptance limits for 1,2-Dibromo-3chloropropane. The RPDs between the LCS and the LCSD and the MS and MSD were also within acceptance limits. The LCSD has been flagged "N2" to indicate the low recovery. A new standard has been prepared that contains all target analytes and is now in use.

Elizabeth C. Wueschner: Synhett C.W weschner Date: 12/18/2001 Quality Assurance Manager

(818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851



CORRECTIVE ACTION REPORT

Department:

Wet Chemistry

Methods:

9014

Date:

09/24/2001

Matrix:

Soil

Batch:

P1I2125

Samples Affected:

PKI0159-07 - PKI0159-11

Identification and Definition of Problem:

The Relative Percent Difference (RPD) between the Matrix Spike (MS) and the Matrix Spike Duplicate (MSD) was high (35%) and outside of the 20% acceptance limits.

Determination of the Cause of the Problem:

A definitive cause for the high RPD has not been determined.

Corrective Action:

The MS, MSD as well as the Laboratory Control Sample recovered within acceptance limits, thus validating the batch. The MSD "R1" to indicate that the RPD was outside of acceptance limits.

Ouality Assurance Manager

Elizabeth C. Wueschner: Wuschen Date 0 61/2001

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKI0159

Sampled: 09/11/01

Received: 09/11/01

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|--------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0159-03 (LB4 5 | S-30 - Soil) | | ~B/ ~B | B/ 1-B | | | | |
| Acetone | EPA 8260B | P1I1201 | 1000 | ND | 1 | 9/12/01 | 9/23/01 | |
| Benzene | EPA 8260B | P1I1201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Bromobenzene | EPA 8260B | P1I1201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| Bromochloromethane | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| Bromodichloromethane | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Bromoform | EPA 8260B | P1I1201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| Bromomethane | EPA 8260B | P1I1201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1201 | 500 | ND | 1 | 9/12/01 | 9/23/01 | |
| n-Butylbenzene | EPA 8260B | P1I1201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| sec-Butylbenzene | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| tert-Butylbenzene | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| Carbon Disulfide | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| Carbon tetrachloride | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| Chlorobenzene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Chloroethane | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| Chloroform | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Chloromethane | EPA 8260B | P1I1201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| 2-Chlorotoluene | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| Dibromochloromethane | EPA 8260B | P1I1201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Dibromomethane | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I1201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Dichlorodifluoromethane | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1-Dichloroethane | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2-Dichloroethane | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1-Dichloroethene | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1I1201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2-Dichloropropane | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,3-Dichloropropane | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 2,2-Dichloropropane | EPA 8260B | P111201 | 100 | · ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1-Dichloropropene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Ethylbenzene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Hexachlorobutadiene | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| 2-Hexanone | EPA 8260B | P111201 | 500 | ND | 1 | 9/12/01 | 9/23/01 | |
| Iodomethane | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Isopropylbenzene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number: PKI0159

Received: 09/11/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0159-03 (LB4 S | -30 - Soil) | | | | | | | |
| p-lsopropyltoluene | EPA 8260B | P1I1201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Methylene chloride | EPA 8260B | P111201 | 500 | ND | 1 | 9/12/01 | 9/23/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1201 | 500 | ND | 1 | 9/12/01 | 9/23/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| Naphthalene | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| n-Propylbenzene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Styrene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Tetrachloroethene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Toluene | EPA 8260B | P1I1201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Trichloroethene | EPA 8260B | P111201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Trichlorofluoromethane | EPA 8260B | P111201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P111201 | 500 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I1201 | 100 | ND | 1 | 9/12/01 | 9/23/01 | |
| Vinyl acetate | EPA 8260B | P1I1201 | 1200 | ND | 1 | 9/12/01 | 9/23/01 | V1 |
| Vinyl chloride | EPA 8260B | P1I1201 | 250 | ND | 1 | 9/12/01 | 9/23/01 | |
| Xylenes, Total | EPA 8260B | P111201 | 300 | ND | 1 | 9/12/01 | 9/23/01 | |
| Surrogate: Dibromofluoromethane (70-12 | 5%) | | | 108 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 99.1 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-136 | 0%) | | | 94.0 % | | | | |

The reporting limit for this sample was adjusted by a factor of 0.929 to account for the applicable preparation factor.

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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKI0159

Sampled: 09/11/01

Received: 09/11/01

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|------------|---------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| | | | ug/kg | ug/kg | | | | |
| Sample ID: PKI0159-04 (LB4 S- | 40 - Soil) | | | | | | | |
| Acetone | EPA 8260B | P1I1201 | 1400 | ND | 1 | 9/12/01 | 9/23/01 | |
| Benzene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Bromobenzene | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| Bromochloromethane | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| Bromodichloromethane | EPA 8260B | P1I1201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Bromoform | EPA 8260B | P111201 | 350 | ND | 1 . | 9/12/01 | 9/23/01 | |
| Bromomethane | EPA 8260B | P1I1201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| 2-Butanone (MEK) | EPA 8260B | P111201 | 690 | ND | 1 | 9/12/01 | 9/23/01 | |
| n-Butylbenzene | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| sec-Butylbenzene | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| tert-Butylbenzene | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| Carbon Disulfide | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| Chlorobenzene | EPA 8260B | P1I1201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Chloroethane | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| Chloroform | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Chloromethane | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I1201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| Dibromochloromethane | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Dibromomethane | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I1201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Dichlorodifluoromethane | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1-Dichloroethane | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2-Dichloroethane | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1-Dichloroethene | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2-Dichloropropane | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,3-Dichloropropane | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 2,2-Dichloropropane | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1-Dichloropropene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Ethylbenzene | EPA 8260B | P1I1201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Hexachlorobutadiene | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| 2-Hexanone | EPA 8260B | P1I1201 | 690 | ND | 1 | 9/12/01 | 9/23/01 | |
| Iodomethane | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Isopropylbenzene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |



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Law Engineering

Attention:

4634 S. 36th Place Phoenix, AZ 85040

Jim Clarke

Client Project ID:

70211-0-0150

PKI0159 Report Number:

Sampled: 09/11/01

Received: 09/11/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0159-04 (LB4 S-40 - Soil) | | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Methylene chloride | EPA 8260B | P1I1201 | 690 | ND | 1 | 9/12/01 | 9/23/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P111201 | 690 | ND | 1 | 9/12/01 | 9/23/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| Naphthalene | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| n-Propylbenzene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Styrene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Tetrachloroethene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Toluene | EPA 8260B | P1I1201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Trichloroethene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Trichlorofluoromethane | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P111201 | 690 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P111201 | 140 | ND | 1 | 9/12/01 | 9/23/01 | |
| Vinyl acetate | EPA 8260B | P111201 | 1700 | ND | 1 | 9/12/01 | 9/23/01 | Vl |
| Vinyl chloride | EPA 8260B | P111201 | 350 | ND | 1 | 9/12/01 | 9/23/01 | |
| Xylenes, Total | EPA 8260B | P111201 | 420 | ND | 1 | 9/12/01 | 9/23/01 | |
| Surrogate: Dibromofluoromethane (70-12 | ?5%) | | | 98.8 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 87.9 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-13 | 0%) | | | 80.9 % | | | | |

The reporting limit for this sample was adjusted by a factor of 1.39 to account for the applicable preparation factor.



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKI0159

Sampled: 09/11/01

Received: 09/11/01

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0159-06 (RINSA | TE 9/11/01 - V | Vater) | 8 | -8 | | | | |
| Acetone | EPA 8260B | P1I1912 | 20 | ND | 1 | 9/24/01 | 9/24/01 | |
| Benzene | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Bromobenzene | EPA 8260B | P1I1912 | 5.0 | ND | i | 9/24/01 | 9/24/01 | |
| Bromochloromethane | EPA 8260B | P1I1912 | 5.0 | ND | i | 9/24/01 | 9/24/01 | |
| Bromodichloromethane | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Bromoform | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Bromomethane | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1912 | 10 | ND | 1 | 9/24/01 | 9/24/01 | |
| n-Butylbenzene | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| tert-Butylbenzene | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Carbon Disulfide | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Carbon tetrachloride | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Chlorobenzene | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Chloroethane | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Chloroform | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Chloromethane | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 2-Chlorotoluene | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 4-Chlorotoluene | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Dibromochloromethane | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Dibromomethane | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Dichlorodifluoromethane | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,1-Dichloroethene | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,2-Dichloropropane | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 2,2-Dichloropropane | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Ethylbenzene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Hexachlorobutadiene | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 2-Hexanone | EPA 8260B | P111912 | 10 | ND | i | 9/24/01 | 9/24/01 | |
| Iodomethane | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Isopropylbenzene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Report Number:

PKI0159

Received: 09/11/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/l | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0159-06 (RINS | Sample ID: PKI0159-06 (RINSATE 9/11/01 - Water) | | | | | | | |
| p-Isopropyltoluene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Methylene chloride | EPA 8260B | P1I1912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P111912 | 10 | ND | 1 | 9/24/01 | 9/24/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Naphthalene | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| n-Propylbenzene | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Styrene | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Tetrachloroethene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Toluene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Trichloroethene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Trichlorofluoromethane | EPA 8260B | P111912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1912 | 10 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P111912 | 2.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Vinyl acetate | EPA 8260B | P111912 | 25° | ND | 1 | 9/24/01 | 9/24/01 | |
| Vinyl chloride | EPA 8260B | P1I1912 | 5.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Xylenes, Total | EPA 8260B | P111912 | 10 | ND | 1 | 9/24/01 | 9/24/01 | |
| Surrogate: Dibromofluoromethane (80-1. | 20%) | | | 99.6 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | 104 % | | | | | | |
| Surrogate: 4-Bromofluorobenzene (80-12 | 20%) | | | 94.0 % | | | | |

Surrogate: 4-Bromofluorobenzene (80-120%)



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 09/11/01 Received: 09/11/01

Report Number:

PKI0159

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0159-07 (LB4 S- | 10 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P111219 | 5.0 | ND | 1 | 9/12/01 | 9/13/01 | |
| Chromium | EPA 6010B | P111219 | 1.0 | 25 | 1 | 9/12/01 | 9/13/01 | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P111219 | 2.0 | 19 | 1 | 9/12/01 | 9/13/01 | |
| Nickel | EPA 6010B | P111219 | 5.0 | 18 | 1 | 9/12/01 | 9/13/01 | |
| Sample ID: PKI0159-07RE2 (LE | 84 S-10 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1I2605 | 5.0 | 54 | 1 | 9/26/01 | 9/28/01 | |
| Sample ID: PKI0159-08 (LB4 S-20 - Soil) | | | | | | | | |
| Arsenic | EPA 6010B | P111219 | 5.0 | ND | 1 | 9/12/01 | 9/13/01 | |
| Chromium | EPA 6010B | P111219 | 1.0 | 22 | 1 | 9/12/01 | 9/13/01 | |
| Chromium VI | EPA 7196A | P112415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P1I1219 | 2.0 | 21 | 1 | 9/12/01 | 9/13/01 | |
| Nickel | EPA 6010B | P111219 | 5.0 | 23 | 1 | 9/12/01 | 9/13/01 | |
| Sample ID: PKI0159-08RE2 (LF | 34 S-20 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1I2605 | 5.0 | 66 | 1 | 9/26/01 | 9/28/01 | |
| Sample ID: PKI0159-09 (LB4 S- | 30 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P111219 | 5.0 | ND | 1 | 9/12/01 | 9/13/01 | |
| Chromium | EPA 6010B | P111219 | 1.0 | 18 | 1 | 9/12/01 | 9/13/01 | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P111219 | 2.0 | 17 | 1 | 9/12/01 | 9/13/01 | |
| Nickel | EPA 6010B | P111219 | 5.0 | 14 | 1 | 9/12/01 | 9/13/01 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Attention: Jim Clarke

Report Number: PKI0159

Received: 09/11/01

TOTAL METALS

| | | | - - | | | | | | | | |
|-------------------------------|-----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|--|--|--|
| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers | | | |
| Sample ID: PKI0159-09RE2 (LI | 34 S-30 - Soil) | | | | | | | | | | |
| Zinc | EPA 6010B | P112605 | 5.0 | 46 | 1 | 9/26/01 | 9/28/01 | | | | |
| Sample ID: PKI0159-10 (LB4 S- | -40 - Soil) | | | | | | | | | | |
| Arsenic | EPA 6010B | P1I1805 | 25 | ND | 5 | 9/18/01 | 9/20/01 | D1 | | | |
| Chromium | EPA 6010B | P1I1805 | 1.0 | 18 | 1 | 9/18/01 | 9/20/01 | | | | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | | | | |
| Copper | EPA 6010B | P111805 | 2.0 | 16 | 1 | 9/18/01 | 9/20/01 | | | | |
| Nickel | EPA 6010B | P111805 | 5.0 | 14 | 1 | 9/18/01 | 9/20/01 | | | | |
| Sample ID: PKI0159-10RE1 (LI | B4 S-40 - Soil) | | | | | | | | | | |
| Zinc | EPA 6010B | P1I2605 | 5.0 | 45 | 1 | 9/26/01 | 9/28/01 | | | | |
| Sample ID: PKI0159-11 (LB4 S- | -50 - Soil) | | | | | | | | | | |
| Arsenic | EPA 6010B | P111805 | 5.0 | ND | 1 | 9/18/01 | 9/20/01 | | | | |
| Chromium | EPA 6010B | P1I1805 | 1.0 | 15 | 1 | 9/18/01 | 9/20/01 | | | | |
| Chromium VI | EPA 7196A | P112415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | | | | |
| Copper | EPA 6010B | P111805 | 2.0 | 14 | 1 | 9/18/01 | 9/20/01 | | | | |
| Nickel | EPA 6010B | P1I1805 | 5.0 | 12 | 1 | 9/18/01 | 9/20/01 | | | | |
| Sample ID: PKI0159-11RE1 (LI | B4 S-50 - Soil) | | | | | | | | | | |
| Zinc | EPA 6010B | P1I2605 | 5.0 | 470 | 1 | 9/26/01 | 9/28/01 | | | | |
| | | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

Received: 09/11/01

TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers | | |
|---|------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|--|--|
| Sample ID: PKI0159-06 (RINSATE 9/11/01 - Water) | | | | | | | | | | |
| Arsenic | EPA 200.7 | P111815 | 0.050 | ND | 1 | 9/18/01 | 9/19/01 | | | |
| Chromium | EPA 200.7 | P111815 | 0.010 | ND | 1 | 9/18/01 | 9/19/01 | | | |
| Chromium VI | SM3500CR-D | P111206 | 0.025 | ND | 1 | 9/12/01 | 9/12/01 | | | |
| Copper | EPA 200.7 | P111815 | 0.020 | ND | 1 | 9/18/01 | 9/19/01 | | | |
| Nickel | EPA 200.7 | P111815 | 0.050 | ND | 1 | 9/18/01 | 9/19/01 | | | |
| Zinc | EPA 200.7 | P111815 | 0.050 | ND | 1 | 9/18/01 | 9/19/01 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Report Number:

PKI0159

Received: 09/11/01

INORGANICS

| HORGINIOS | | | | | | | | | | | |
|---|--------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|--|--|--|
| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers | | | |
| Sample ID: PKI0159-06 (RINSATE 9/11/01 - Water) | | | | | | | | | | | |
| Total Cyanide S | M4500-CN,C-E | P112028 | 0.020 mg/kg | ND mg/kg | 1 | 9/20/01 | 9/21/01 | | | | |
| Sample ID: PKI0159-07 (LB4 S-1 | 0 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I2125 | 0.62 | ND | 1.25 | 9/21/01 | 9/24/01 | | | | |
| Sample ID: PKI0159-08 (LB4 S-2 | 20 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P112125 | 0.62 | ND | 1.25 | 9/21/01 | 9/24/01 | | | | |
| Sample ID: PKI0159-09 (LB4 S-3 | 30 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I2125 | 0.62 | ND | 1.25 | 9/21/01 | 9/24/01 | | | | |
| Sample ID: PKI0159-10 (LB4 S-4 | 10 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P112125 | 0.62 | ND | 1.25 | 9/21/01 | 9/24/01 | | | | |
| Sample ID: PKI0159-11 (LB4 S-5 | 50 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I2125 | 0.62 | ND | 1.25 | 9/21/01 | 9/24/01 | | | | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

Received: 09/11/01

МРТНОЙ ВЕАККОС ВАТА.

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1201 Extracted: 09/12/01 | | | | | | | | | | |
| Blank Analyzed: 09/17/01 (P111201-B | LK1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | | | | | | | |
| Benzene | ND | 100 | ug/kg | | | | | | | |
| Bromobenzene | ND | 250 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 250 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 100 | ug/kg | | | | | | | |
| Bromoform | ND | 250 | ug/kg | | | | | | | |
| Bromomethane | ND | 250 | ug/kg | | | | | | | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| Carbon Disulfide | ND | 250 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 250 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Chloroethane | ND | 250 | ug/kg | | | | | | | |
| Chloroform | ND | 100 | ug/kg | | | | | | | |
| Chloromethane | ND | 250 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 100 | ug/kg | | | | | | | |
| Dibromomethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichlorobenzene | ND | 100 | ug/kg | | • | | | | | |
| 1,3-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,4-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Dichlorodifluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 250 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

Received: 09/11/01

METHOD BLANK OC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|--------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1201 Extracted: 09/12/01 | | | | | | | | | | |
| Blank Analyzed: 09/17/01 (P | 1I1201-BLK1) | | | | | | | | | |
| 2,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 1,1-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 250 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 500 | ug/kg | | | | | | | |
| Iodomethane | ND | 100 | ug/kg | | | | | | | |
| Isopropylbenzene | ND | 100 | ug/kg | | | | | | | |
| p-Isopropyltoluene | ND | 100 | ug/kg | | | | | | | |
| Methylene chloride | ND | 500 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 500 | ug/kg | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | | | | |
| Naphthalene | ND | 250 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 100 | ug/kg | | | | | | | |
| Styrene | ND | 100 | ug/kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | | | | | | | |
| I,1,2,2-Tetrachloroethane | ND | 100 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 100 | ug/kg | • | | | | | | |
| Toluene | ND | 100 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| Trichloroethene | ND | 100 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Vinyl acetate | ND | 1200 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 250 | ug/kg | | | | | | | |
| Xylenes, Total | ND | 300 | ug/kg | | | | | | | |
| Surrogate: Dibromofluoromethane | 161 | | ug/kg | 125 | | 129 | 70-125 | | | S4 |
| Surrogate: Toluene-d8 | 168 | | ug/kg | 125 | | 134 | 50-135 | | | |



2852 Alton Ave., Irvine, CA 92606 1014 E. Cooley Dr., Suite A, Colton, CA 92324 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

Received: 09/11/01

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|------------|------------|----------------|--------------|--------|--------------|------------------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1201 Extracted: 09/12/0 | <u>1</u> | | | | | | | | | |
| Blank Analyzed: 09/17/01 (P1I1201-BI | .K1) | | | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 151 | | ug/kg | 125 | | 121 | 70-130 | | | |
| LCS Analyzed: 09/17/01 (P1I1201-BS1 |) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 55.8 | 5-200 | | | |
| Benzene | 927 | 100 | ug/kg | 1000 | | 92.7 | 65-130 | | | |
| Bromobenzene | 1090 | 250 | ug/kg | 1000 | | 109 | 60-135 | | | |
| Bromochloromethane | 1030 | 250 | ug/kg | 1000 | | 103 | 60-135 | | | |
| Bromodichloromethane | 915 | 100 | ug/kg | 1000 | | 91.5 | 30-135 | | | |
| Bromoform | 737 | 250 | ug/kg | 1000 | | 73.7 | 60-140 | | | |
| Bromomethane | 1330 | 250 | ug/kg | 2000 | | 66.5 | 10-200 | | | |
| 2-Butanone (MEK) | 521 | 500 | ug/kg | 1000 | | 52.1 | 10-160 | | | |
| n-Butylbenzene | 900 | 250 | ug/kg | 1000 | | 90.0 | 65-125 | | | |
| sec-Butylbenzene | 928 | 250 | ug/kg | 1000 | | 92.8 | 70-135 | | | |
| tert-Butylbenzene | 982 | 250 | ug/kg | 1000 | | 98.2 | 70-130 | | | |
| Carbon Disulfide | 757 | 250 | ug/kg | 1000 | | 75.7 | 20-120 | | | |
| Carbon tetrachloride | 859 | 250 | ug/kg | 1000 | | 85.9 | 70-140 | | | |
| Chlorosthan | 1050 | 100 | ug/kg | 1000 | | 105 | 70-125 | | | |
| Chloroethane Chloroform | 1270 | 250 | ug/kg | 2000 | | 63.5 | 10-200 | | | |
| Chloromethane | 987 | 100 | ug/kg | 1000 | | 98.7 | 35-135 | | | |
| 2-Chlorotoluene | 1410 | 250 | ug/kg | 2000 | | 70.5 | 10-200 | | | |
| 4-Chlorotoluene | 972 | 250 | ug/kg | 1000 | | 97.2 | 70-135 | | | |
| Dibromochloromethane | 965 898 | 250 100 | ug/kg | 1000 | | 96.5 | 75-135 | | | |
| 1,2-Dibromo-3-chloropropane | 537 | 250 | ug/kg | 1000 | | 89.8 | 35-135 | | | |
| 1,2-Dibromoethane (EDB) | 900 | 100 | ug/kg | 1000 | | 53.7 | 50-155 | | | |
| Dibromomethane | 925 | 100 | ug/kg ug/kg | 1000 1000 | | 90.0 92.5 | 70-130 | | | |
| 1,2-Dichlorobenzene | 987 | 100 | ug/kg ug/kg | 1000 | | 92.3 98.7 | 65-130 70-125 | | | |
| 1,3-Dichlorobenzene | 1000 | 100 | ug/kg ug/kg | 1000 | | 100 | 70-125 70-125 | | | |
| 1,4-Dichlorobenzene | 1040 | 100 | ug/kg ug/kg | 1000 | | 104 | 70-125 | | | |
| Dichlorodifluoromethane | 1380 | 250 | ug/kg ug/kg | 2000 | | 69.0 | 10-185 | | | |
| 1,1-Dichloroethane | 952 | 100 | ug/kg | 1000 | | 95.2 | 60-140 | | | |
| 1,2-Dichloroethane | 935 | 100 | ug/kg ug/kg | 1000 | | 93.5 | 55-135 | | | |
| 1,1-Dichloroethene | 992 | 250 | ug/kg ug/kg | 1000 | | 99.2 | 55-145 | | | |
| cis-1,2-Dichloroethene | 996 | 100 | ug/kg | 1000 | | 99.6 | 60-125 | | | |
| trans-1,2-Dichloroethene | 973 | 100 | ug/kg ug/kg | 1000 | | 97.3 | 70-145 | | | |
| 1,2-Dichloropropane | 921 | 100 | ug/kg | 1000 | | 92.1 | 65-130 | | | |
| • • | | | -00 | | | / - | 33 130 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Report Number:

PKI0159

Received: 09/11/01

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1201 Extracted: 09/12/0 | <u>1</u> | | | | | | | | | |
| LCS Analyzed: 09/17/01 (P1I1201-BS1 |) | | | | | | | | | |
| 1,3-Dichloropropane | 920 | 100 | ug/kg | 1000 | | 92.0 | 65-130 | | | |
| 2,2-Dichloropropane | 863 | 100 | ug/kg | 1000 | | 86.3 | 60-135 | | | |
| 1,1-Dichloropropene | 925 | 100 | ug/kg | 1000 | | 92.5 | 65-130 | | | |
| cis-1,3-Dichloropropene | 840 | 100 | ug/kg | 1000 | | 84.0 | 60-125 | | | |
| trans-1,3-Dichloropropene | 784 | 100 | ug/kg | 1000 | | 78.4 | 50-130 | | | |
| Ethylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-125 | | | |
| Hexachlorobutadiene | 942 | 250 | ug/kg | 1000 | | 94.2 | 60-125 | | | |
| 2-Hexanone | 600 | 500 | ug/kg | 1000 | | 60.0 | 25-185 | | | |
| Iodomethane | 1120 | 100 | ug/kg | 1000 | | 112 | 30-155 | | | |
| Isopropylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-135 | | | |
| p-Isopropyltoluene | 926 | 100 | ug/kg | 1000 | | 92.6 | 65-130 | • | | |
| Methylene chloride | 953 | 500 | ug/kg | 1000 | | 95.3 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 685 | 500 | ug/kg | 1000 | | 68.5 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | 55-135 | | | |
| Naphthalene | 731 | 250 | ug/kg | 1000 | | 73.1 | 45-155 | | | |
| n-Propylbenzene | 965 | 100 | ug/kg | 1000 | | 96.5 | 75-135 | | | |
| Styrene | 1020 | 100 | ug/kg | 1000 | | 102 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 951 | 250 | ug/kg | 1000 | | 95.1 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 757 | 100 | ug/kg | 1000 | | 75.7 | 60-140 | | | |
| Tetrachloroethene | 1070 | 100 | ug/kg | 1000 | | 107 | 65-130 | | | |
| Toluene | 985 | 100 | ug/kg | 1000 | | 98.5 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 853 | 250 | ug/kg | 1000 | | 85.3 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 950 | 250 | ug/kg | 1000 | | 95.0 | 55-135 | | | |
| 1,1,1-Trichloroethane | 943 | 100 | ug/kg | 1000 | | 94.3 | 65-135 | | | |
| 1,1,2-Trichloroethane | 919 | 100 | ug/kg | 1000 | | 91.9 | 65-130 | | | |
| Trichloroethene | 992 | 100 | ug/kg | 1000 | | 99.2 | 70-130 | | | |
| Trichlorofluoromethane | 2000 | 250 | ug/kg | 2000 | | 100 | 10-200 | | | |
| 1,2,3-Trichloropropane | 745 | 500 | ug/kg | 1000 | | 74.5 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 1000 | 100 | ug/kg | 1000 | | 100 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 955 | 100 | ug/kg | 1000 | | 95.5 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 52.8 | 25-130 | | | |
| Vinyl chloride | 853 | 250 | ug/kg | 2000 | | 42.6 | 10-200 | | | |
| Xylenes, Total | 3040 | 300 | ug/kg | 3000 | | 101 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 150 | | ug/kg | 125 | | 120 | 70-125 | | | |
| Surrogate: Toluene-d8 | 161 | | ug/kg | 125 | | 129 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 156 | | ug/kg | 125 | | 125 | 70-130 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

Received: 09/11/01

METHOD BLANK/OC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|---------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1201 Extracted: 09/12/0 | 1 | | | | | | | | | |
| LCS Dup Analyzed: 09/17/01 (P11120) | 1-BSD1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 62.8 | 5-200 | 11.8 | 35 | |
| Benzene | 961 | 100 | ug/kg | 1000 | | 96.1 | 65-130 | 3.60 | 35 | |
| Bromobenzene | 1080 | 250 | ug/kg | 1000 | | 108 | 60-135 | 0.922 | 35 | |
| Bromochloromethane | 1050 | 250 | ug/kg | 1000 | | 105 | 60-135 | 1.92 | 35 | |
| Bromodichloromethane | 944 | 100 | ug/kg | 1000 | | 94.4 | 30-135 | 3.12 | 35 | |
| Bromoform | 729 | 250 | ug/kg | 1000 | | 72.9 | 60-140 | 1.09 | 35 | |
| Bromomethane | 1440 | 250 | ug/kg | 2000 | | 72.0 | 10-200 | 7.94 | 35 | |
| 2-Butanone (MEK) | 528 | 500 | ug/kg | 1000 | | 52.8 | 10-160 | 1.33 | 35 | |
| n-Butylbenzene | 960 | 250 | ug/kg | 1000 | | 96.0 | 65-125 | 6.45 | 35 | |
| sec-Butylbenzene | 995 | 250 | ug/kg | 1000 | | 99.5 | 70-135 | 6.97 | 35 | |
| tert-Butylbenzene | 1030 | 250 | ug/kg | 1000 | | 103 | 70-130 | 4.77 | 35 | |
| Carbon Disulfide | 788 | 250 | ug/kg | 1000 | | 78.8 | 20-120 | 4.01 | 35 | |
| Carbon tetrachloride | 928 | 250 | ug/kg | 1000 | | 92.8 | 70-140 | 7.72 | 35 | |
| Chlorobenzene | 1100 | 100 | ug/kg | 1000 | | 110 | 70-125 | 4.65 | 35 | |
| Chloroethane | 1350 | 250 | ug/kg | 2000 | | 67.5 | 10-200 | 6.11 | 35 | |
| Chloroform | 1040 | 100 | ug/kg | 1000 | | 104 | 35-135 | 5.23 | 35 | |
| Chloromethane | 1520 | 250 | ug/kg | 2000 | | 76.0 | 10-200 | 7.51 | 35 | |
| 2-Chlorotoluene | 1020 | 250 | ug/kg | 1000 | | 102 | 70-135 | 4.82 | 35 | |
| 4-Chlorotoluene | 1020 | 250 | ug/kg | 1000 | | 102 | 75-135 | 5.54 | 35 | |
| Dibromochloromethane | 929 | 100 | ug/kg | 1000 | | 92.9 | 35-135 | 3.39 | 35 | |
| 1,2-Dibromo-3-chloropropane | 429 | 250 | ug/kg | 1000 | | 42.9 | 50-155 | 22.4 | 35 | N2 |
| 1,2-Dibromoethane (EDB) | 897 | 100 | ug/kg | 1000 | | 89.7 | 70-130 | 0.334 | 35 | |
| Dibromomethane | 938 | 100 | ug/kg | 1000 | | 93.8 | 65-130 | 1.40 | 35 | |
| 1,2-Dichlorobenzene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-125 | 5.23 | 35 | |
| 1,3-Dichlorobenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-125 | 5.83 | 35 | |
| 1,4-Dichlorobenzene | 1070 | 100 | ug/kg | 1000 | | 107 | 70-135 | 2.84 | 35 | |
| Dichlorodifluoromethane | 1500 | 250 | ug/kg | 2000 | | 75.0 | 10-185 | 8.33 | 35 | |
| 1,1-Dichloroethane | 992 | 100 | ug/kg | 1000 | | 99.2 | 60-140 | 4.12 | 35 | |
| 1,2-Dichloroethane | 966 | 100 | ug/kg | 1000 | | 96.6 | 55-135 | 3.26 | 35 | |
| 1,1-Dichloroethene | 1040 | 250 | ug/kg | 1000 | | 104 | 55-145 | 4.72 | 35 | |
| cis-1,2-Dichloroethene | 1020 | 100 | ug/kg | 1000 | | 102 | 60-125 | 2.38 | 35 | |
| trans-1,2-Dichloroethene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-145 | 6.66 | 35 | |
| 1,2-Dichloropropane | 963 | 100 | ug/kg | 1000 | | 96.3 | 65-130 | 4.46 | 35 | |
| 1,3-Dichloropropane | 940 | 100 | ug/kg | 1000 | | 94.0 | 65-130 | 2.15 | 35 | |
| 2,2-Dichloropropane | 948 | 100 | ug/kg | 1000 | | 94.8 | 60-135 | 9.39 | 35 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Report Number:

PKI0159

Received: 09/11/01

INDANIA INTO DER DE ANTERO (DE EL PARTEY.

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1201 Extracted: 09/12/ | <u>01</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/17/01 (P1I120 | 01-BSD1) | | | | | | | | | |
| 1,1-Dichloropropene | 964 | 100 | ug/kg | 1000 | | 96.4 | 65-130 | 4.13 | 35 | |
| cis-1,3-Dichloropropene | 883 | 100 | ug/kg | 1000 | | 88.3 | 60-125 | 4.99 | 35 | |
| trans-1,3-Dichloropropene | 810 | 100 | ug/kg | 1000 | | 81.0 | 50-130 | 3.26 | 35 | |
| Ethylbenzene | 1080 | 100 | ug/kg | 1000 | | 108 | 70-125 | 6.70 | 35 | |
| Hexachlorobutadiene | 1040 | 250 | ug/kg | 1000 | | 104 | 60-125 | 9.89 | 35 | |
| 2-Hexanone | 601 | 500 | ug/kg | 1000 | | 60.1 | 25-185 | 0.167 | 35 | |
| lodomethane | 1170 | 100 | ug/kg | 1000 | | 117 | 30-155 | 4.37 | 35 | |
| Isopropylbenzene | 1080 | 100 | ug/kg | 1000 | | 108 | 70-135 | 6.70 | 35 | |
| p-Isopropyltoluene | 988 | 100 | ug/kg | 1000 | | 98.8 | 65-130 | 6.48 | 35 | |
| Methylene chloride | 987 | 500 | ug/kg | 1000 | | 98.7 | 60-140 | 3.51 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 639 | 500 | ug/kg | 1000 | | 63.9 | 10-175 | 6.95 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | 55-135 | | 35 | |
| Naphthalene | 686 | 250 | ug/kg | 1000 | | 68.6 | 45-155 | 6.35 | 35 | |
| n-Propylbenzene | 1020 | 100 | ug/kg | 1000 | | 102 | 75-135 | 5.54 | 35 | |
| Styrene | 1080 | 100 | ug/kg | 1000 | | 108 | 70-130 | 5.71 | 35 | |
| 1,1,1,2-Tetrachloroethane | 992 | 250 | ug/kg | 1000 | | 99.2 | 70-130 | 4.22 | 35 | |
| 1,1,2,2-Tetrachloroethane | 726 | 100 | ug/kg | 1000 | | 72.6 | 60-140 | 4.18 | 35 | |
| Tetrachloroethene | 1120 | 100 | ug/kg | 1000 | | 112 | 65-130 | 4.57 | 35 | |
| Toluene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-125 | 7.33 | 35 | |
| 1,2,3-Trichlorobenzene | 820 | 250 | ug/kg | 1000 | | 82.0 | 60-135 | 3.95 | 35 | |
| 1,2,4-Trichlorobenzene | 990 | 250 | ug/kg | 1000 | | 99.0 | 55-135 | 4.12 | 35 | |
| 1,1,1-Trichloroethane | 1010 | 100 | ug/kg | 1000 | | 101 | 65-135 | 6.86 | 35 | |
| 1,1,2-Trichloroethane | 942 | 100 | ug/kg | 1000 | | 94.2 | 65-130 | 2.47 | 35 | |
| Trichloroethene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-130 | 6.63 | 35 | |
| Trichlorofluoromethane | 2260 | 250 | ug/kg | 2000 | | 113 | 10-200 | 12.2 | 35 | |
| 1,2,3-Trichloropropane | 714 | 500 | ug/kg | 1000 | | 71.4 | 60-150 | 4.25 | 35 | |
| 1,2,4-Trimethylbenzene | 1050 | 100 | ug/kg | 1000 | | 105 | 75-130 | 4.88 | 35 | |
| 1,3,5-Trimethylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-130 | 5.60 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 37.4 | 25-130 | 34.1 | 35 | |
| Vinyl chloride | 859 | 250 | ug/kg | 2000 | | 43.0 | 10-200 | 0.701 | 35 | |
| Xylenes, Total | 3250 | 300 | ug/kg | 3000 | | 108 | 70-130 | 6.68 | 35 | |
| Surrogate: Dibromofluoromethane | 140 | | ug/kg | 125 | | 112 | 70-125 | | | |
| Surrogate: Toluene-d8 | 162 | | ug/kg | 125 | | 130 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 153 | | ug/kg | 125 | | 122 | 70-130 | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number: PKI0159

Sampled: 09/11/01

Received: 09/11/01

METHOD BLANK OF DATA.

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|--------|-----------|-------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1201 Extracted: 09/12/0 | 01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/17/01 (P1) | | | | | Source: P | K10130-0 | 1 | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | ND | 54.6 | 5-200 | | | |
| Benzene | 932 | 100 | ug/kg | 1000 | ND | 93.2 | 65-130 | | | |
| Bromobenzene | 1090 | 250 | ug/kg | 1000 | ND | 109 | 60-135 | | | |
| Bromochloromethane | 1060 | 250 | ug/kg | 1000 | ND | 106 | 60-135 | | | |
| Bromodichloromethane | 956 | 100 | ug/kg | 1000 | ND | 95.6 | 30-135 | | | |
| Bromoform | 789 | 250 | ug/kg | 1000 | ND | 78.9 | 60-140 | | | |
| Bromomethane | 1250 | 250 | ug/kg | 2000 | ND | 62.5 | 10-200 | | | |
| 2-Butanone (MEK) | 505 | 500 | ug/kg | 1000 | ND | 50.5 | 10-160 | | | |
| n-Butylbenzene | 964 | 250 | ug/kg | 1000 | ND | 96.4 | 65-125 | | | |
| sec-Butylbenzene | 991 | 250 | ug/kg | 1000 | ND | 99.1 | 70-135 | | | |
| tert-Butylbenzene | 999 | 250 | ug/kg | 1000 | ND | 99.9 | 70-130 | | | |
| Carbon Disulfide | 743 | 250 | ug/kg | 1000 | ND | 74.3 | 20-120 | | | |
| Carbon tetrachloride | 901 | 250 | ug/kg | 1000 | ND | 90.1 | 70-140 | | | |
| Chlorobenzene | 1100 | 100 | ug/kg | 1000 | ND | 110 | 75-125 | | | |
| Chloroethane | 1270 | 250 | ug/kg | 2000 | ND | 63.5 | 10-200 | | | |
| Chloroform | 1020 | 100 | ug/kg | 1000 | ND | 102 | 35-135 | | | |
| Chloromethane | 1420 | 250 | ug/kg | 2000 | ND | 71.0 | 10-200 | | | |
| 2-Chlorotoluene | 1000 | 250 | ug/kg | 1000 | ND | 100 | 70-135 | | | |
| 4-Chlorotoluene | 1000 | 250 | ug/kg | 1000 | ND | 100 | 75-135 | | | |
| Dibromochloromethane | 942 | 100 | ug/kg | 1000 | ND | 94.2 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 584 | 250 | ug/kg | 1000 | ND | 58.4 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 938 | 100 | ug/kg | 1000 | ND | 93.8 | 70-130 | | | |
| Dibromomethane | 940 | 100 | ug/kg | 1000 | ND | 94.0 | 65-130 | | | |
| 1,2-Dichlorobenzene | 1040 | 100 | ug/kg | 1000 | ND | 104 | 70-125 | | | |
| 1,3-Dichlorobenzene | 1040 | 100 | ug/kg | 1000 | ND | 104 | 70-125 | | | |
| 1,4-Dichlorobenzene | 1090 | 100 | ug/kg | 1000 | ND | 109 | 70-135 | | | |
| Dichlorodifluoromethane | 1300 | 250 | ug/kg | 2000 | ND | 65.0 | 10-185 | | | |
| 1,1-Dichloroethane | 976 | 100 | ug/kg | 1000 | ND | 97.6 | 60-140 | | | |
| 1,2-Dichloroethane | 952 | 100 | ug/kg | 1000 | ND | 95.2 | 55-135 | | | |
| 1,1-Dichloroethene | 1010 | 250 | ug/kg | 1000 | ND | 101 | 55-145 | | | |
| cis-1,2-Dichloroethene | 1010 | 100 | ug/kg | 1000 | ND | 101 | 60-125 | | | |
| trans-1,2-Dichloroethene | 1020 | 100 | ug/kg | 1000 | ND | 102 | 70-145 | | | |
| 1,2-Dichloropropane | 932 | 100 | ug/kg | 1000 | ND | 93.2 | 65-130 | | | |
| 1,3-Dichloropropane | 942 | 100 | ug/kg | 1000 | ND | 94.2 | 65-130 | | | |
| 2,2-Dichloropropane | 827 | 100 | ug/kg | 1000 | ND | 82.7 | 60-135 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

Attention:

4634 S. 36th Place Phoenix, AZ 85040

Jim Clarke

Client Project ID:

70211-0-0150

PKI0159

Report Number:

Reporting

Sampled: 09/11/01

%REC

Received: 09/11/01

RPD

Data

NETHOD BLANK OF DATA

Spike

Source

| | | reporting | | Spine | Source | | /UICE | | IXI D | Data |
|------------------------------------|--------------|-----------|--------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1201 Extracted: 09/12 | <u>2/01</u> | | | | | | | | | |
| Matrix Spike Analyzed: 09/17/01 (F | P111201-MS1) | | | | Source: F | KI0130-0 |)1 | | | |
| 1,1-Dichloropropene | 943 | 100 | ug/kg | 1000 | ND | 94.3 | 65-130 | | | |
| cis-1,3-Dichloropropene | 876 | 100 | ug/kg | 1000 | ND | 87.6 | 60-125 | | | |
| trans-1,3-Dichloropropene | 835 | 100 | ug/kg | 1000 | ND | 83.5 | 50-130 | | | |
| Ethylbenzene | 1060 | 100 | ug/kg | 1000 | ND | 106 | 70-125 | | | |
| Hexachlorobutadiene | 1140 | 250 | ug/kg | 1000 | ND | 114 | 60-125 | | | |
| 2-Hexanone | 639 | 500 | ug/kg | 1000 | ND | 63.9 | 25-185 | | | |
| lodomethane | 1120 | 100 | ug/kg | 1000 | ND | 112 | 30-155 | | | |
| lsopropylbenzene | 1070 | 100 | ug/kg | 1000 | ND | 107 | 70-135 | | | |
| p-Isopropyltoluene | 998 | 100 | ug/kg | 1000 | ND | 99.8 | 65-130 | | | |
| Methylene chloride | 971 | 500 | ug/kg | 1000 | ND | 97.1 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 709 | 500 | ug/kg | 1000 | ND | 70.9 | 10-175 | | | |
| Naphthalene | 781 | 250 | ug/kg | 1000 | ND | 78.1 | 45-155 | | | |
| n-Propylbenzene | 1030 | 100 | ug/kg | 1000 | ND | 103 | 75-135 | | | |
| Styrene | 1080 | 100 | ug/kg | 1000 | ND | 108 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 1010 | 250 | ug/kg | 1000 | ND | 101 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 815 | 100 | ug/kg | 1000 | ND | 81.5 | 60-140 | | | |
| Tetrachloroethene | 1140 | 100 | ug/kg | 1000 | ND | 114 | 65-130 | | | |
| Toluene | 1060 | 100 | ug/kg | 1000 | ND | 106 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 906 | 250 | ug/kg | 1000 | ND | 90.6 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 1020 | 250 | ug/kg | 1000 | ND | 102 | 55-135 | | | |
| 1,1,1-Trichloroethane | 963 | 100 | ug/kg | 1000 | ND | 96.3 | 65-135 | | | |
| 1,1,2-Trichloroethane | 987 | 100 | ug/kg | 1000 | ND | 98.7 | 65-130 | | | |
| Trichloroethene | 1060 | 100 | ug/kg | 1000 | ND | 106 | 70-130 | | | |
| Trichlorofluoromethane | 1970 | 250 | ug/kg | 2000 | ND | 98.5 | 10-200 | | | |
| 1,2,3-Trichloropropane | 791 | 500 | ug/kg | 1000 | ND | 79.1 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 1050 | 100 | ug/kg | 1000 | ND | 105 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 1000 | 100 | ug/kg | 1000 | ND | 100 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | 28.4 | 25-130 | | | |
| Vinyl chloride | 830 | 250 | ug/kg | 2000 | ND | 41.5 | 10-200 | | | |
| Xylenes, Total | 3220 | 300 | ug/kg | 3000 | ND | 107 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 143 | | ug/kg | 125 | | 114 | 70-125 | | | |
| Surrogate: Toluene-d8 | 159 | | .ug/kg | 125 | | 127 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 148 | | ug/kg | 125 | | 118 | 70-130 | | | |
| | | | | | | | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

Received: 09/11/01

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| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P111201 Extracted: 09/12/ | 01 | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/17/01 | (P111201-M | SD1) | | | Source: F | KI0130-0 | 1 | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | ND | 52.7 | 5-200 | 3.54 | 35 | |
| Benzene | 92 7 | 100 | ug/kg | 1000 | ND | 92.7 | 65-130 | 0.538 | 35 | |
| Bromobenzene | 1070 | 250 | ug/kg | 1000 | ND | 107 | 60-135 | 1.85 | 35 | |
| Bromochloromethane | 1020 | 250 | ug/kg | 1000 | ND | 102 | 60-135 | 3.85 | 35 | |
| Bromodichloromethane | 900 | 100 | ug/kg | 1000 | ND | 90.0 | 30-135 | 6.03 | 35 | |
| Bromoform | 717 | 250 | ug/kg | 1000 | ND | 71.7 | 60-140 | 9.56 | 35 | |
| Bromomethane | 1260 | 250 | ug/kg | 2000 | ND | 63.0 | 10-200 | 0.797 | 35 | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | 1000 | ND | 46.7 | 10-160 | 7.82 | 35 | |
| n-Butylbenzene | 939 | 250 | ug/kg | 1000 | ND | 93.9 | 65-125 | 2.63 | 35 | |
| sec-Butylbenzene | 956 | 250 | ug/kg | 1000 | ND | 95.6 | 70-135 | 3.60 | 35 | |
| tert-Butylbenzene | 986 | 250 | ug/kg | 1000 | ND | 98.6 | 70-130 | 1.31 | 35 | |
| Carbon Disulfide | 736 | 250 | ug/kg | 1000 | ND | 73.6 | 20-120 | 0.947 | 35 | |
| Carbon tetrachloride | 893 | 250 | ug/kg | 1000 | ND | 89.3 | 70-140 | 0.892 | 35 | |
| Chlorobenzene | 1090 | 100 | ug/kg | 1000 | ND | 109 | 75-125 | 0.913 | 35 | |
| Chloroethane | 1260 | 250 | ug/kg | 2000 | ND | 63.0 | 10-200 | 0.791 | 35 | |
| Chloroform | 989 | 100 | ug/kg | 1000 | ND | 98.9 | 35-135 | 3.09 | 35 | |
| Chloromethane | 1450 | 250 | ug/kg | 2000 | ND | 72.5 | 10-200 | 2.09 | 35 | |
| 2-Chlorotoluene | 984 | 250 | ug/kg | 1000 | ND | 98.4 | 70-135 | 1.61 | 35 | |
| 4-Chlorotoluene | 992 | 250 | ug/kg | 1000 | ND | 99.2 | 75-135 | 0.803 | 35 | |
| Dibromochloromethane | 912 | 100 | ug/kg | 1000 | ND | 91.2 | 35-135 | 3.24 | 35 | |
| 1,2-Dibromo-3-chloropropane | 509 | 250 | ug/kg | 1000 | ND | 50.9 | 50-155 | 13.7 | 35 | |
| 1,2-Dibromoethane (EDB) | 889 | 100 | ug/kg | 1000 | ND | 88.9 | 70-130 | 5.36 | 35 | |
| Dibromomethane | 913 | 100 | ug/kg | 1000 | ND | 91.3 | 65-130 | 2.91 | 35 | |
| 1,2-Dichlorobenzene | 998 | 100 | ug/kg | 1000 | ND | 99.8 | 70-125 | 4.12 | 35 | |
| 1,3-Dichlorobenzene | 1010 | 100 | ug/kg | 1000 | ND | 101 | 70-125 | 2.93 | 35 | |
| 1,4-Dichlorobenzene | 1070 | 100 | ug/kg | 1000 | ND | 107 | 70-135 | 1.85 | 35 | |
| Dichlorodifluoromethane | 1290 | 250 | ug/kg | 2000 | ND | 64.5 | 10-185 | 0.772 | 35 | |
| 1,1-Dichloroethane | 970 | 100 | ug/kg | 1000 | ND | 97.0 | 60-140 | 0.617 | 35 | |
| 1,2-Dichloroethane | 901 | 100 | ug/kg | 1000 | ND | 90.1 | 55-135 | 5.50 | 35 | |
| 1,1-Dichloroethene | 977 | 250 | ug/kg | 1000 | ND | 97.7 | 55-145 | 3.32 | 35 | |
| cis-1,2-Dichloroethene | 984 | 100 | ug/kg | 1000 | ND | 98.4 | 60-125 | 2.61 | 35 | |
| trans-1,2-Dichloroethene | 1010 | 100 | ug/kg | 1000 | ND | 101 | 70-145 | 0.985 | 35 | |
| 1,2-Dichloropropane | 893 | 100 | ug/kg | 1000 | ND | 89.3 | 65-130 | 4.27 | 35 | |
| 1,3-Dichloropropane | 909 | 100 | ug/kg | 1000 | ND | 90.9 | 65-130 | 3.57 | 35 | |
| 2,2-Dichloropropane | 811 | 100 | ug/kg | 1000 | ND | 81.1 | 60-135 | 1.95 | 35 | |



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Law Engineering

4634 S. 36th Place Client Project ID:

70211-0-0150

Sampled: 09/11/01 Received: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

WETHOD RLANKGOODATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1201 Extracted: 09/12/0 | <u>01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/17/01 | (P111201-M | SD1) | | | Source: F | KI0130-0 |)1 - | | | |
| 1,1-Dichloropropene | 916 | 100 | ug/kg | 1000 | ND | 91.6 | 65-130 | 2.90 | 35 | |
| cis-1,3-Dichloropropene | 851 | 100 | ug/kg | 1000 | ND | 85.1 | 60-125 | 2.90 | 35 | |
| trans-1,3-Dichloropropene | 811 | 100 | ug/kg | 1000 | ND | 81.1 | 50-130 | 2.92 | 35 | |
| Ethylbenzene | 1040 | 100 | ug/kg | 1000 | ND | 104 | 70-125 | 1.90 | 35 | |
| Hexachlorobutadiene | 1040 | 250 | ug/kg | 1000 | ND | 104 | 60-125 | 9.17 | 35 | |
| 2-Hexanone | 554 | 500 | ug/kg | 1000 | ND | 55.4 | 25-185 | 14.2 | 35 | |
| Iodomethane | 1130 | 100 | ug/kg | 1000 | ND | 113 | 30-155 | 0.889 | 35 | |
| Isopropylbenzene | 1040 | 100 | ug/kg | 1000 | ND | 104 | 70-135 | 2.84 | 35 | |
| p-Isopropyltoluene | 953 | 100 | ug/kg | 1000 | ND | 95.3 | 65-130 | 4.61 | 35 | |
| Methylene chloride | 957 | 500 | ug/kg | 1000 | ND | 95.7 | 60-140 | 1.45 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 630 | 500 | ug/kg | 1000 | ND | 63.0 | 10-175 | 11.8 | 35 | |
| Naphthalene | 729 | 250 | ug/kg | 1000 | ND | 72.9 | 45-155 | 6.89 | 35 | |
| n-Propylbenzene | 1000 | 100 | ug/kg | 1000 | ND | 100 | 75-135 | 2.96 | 35 | |
| Styrene | 1070 | 100 | ug/kg | 1000 | ND | 107 | 70-130 | 0.930 | 35 | |
| 1,1,1,2-Tetrachloroethane | 984 | 250 | ug/kg | 1000 | ND | 98.4 | 70-130 | 2.61 | 35 | |
| 1,1,2,2-Tetrachloroethane | 724 | 100 | ug/kg | 1000 | ND | 72.4 | 60-140 | 11.8 | 35 | |
| Tetrachloroethene | 1120 | 100 | ug/kg | 1000 | ND | 112 | 65-130 | 1.77 | 35 | |
| Toluene | 1030 | 100 | ug/kg | 1000 | ND | 103 | 70-125 | 2.87 | 35 | |
| 1,2,3-Trichlorobenzene | 848 | 250 | ug/kg | 1000 | ND | 84.8 | 60-135 | 6.61 | 35 | |
| 1,2,4-Trichlorobenzene | 958 | 250 | ug/kg | 1000 | ND | 95.8 | 55-135 | 6.27 | 35 | |
| 1,1,1-Trichloroethane | 950 | 100 | ug/kg | 1000 | ND | 95.0 | 65-135 | 1.36 | 35 | |
| 1,1,2-Trichloroethane | 912 | 100 | ug/kg | 1000 | ND | 91.2 | 65-130 | 7.90 | 35 | |
| Trichloroethene | 987 | 100 | ug/kg | 1000 | ND | 98.7 | 70-130 | 7.13 | 35 | |
| Trichlorofluoromethane | 1950 | 250 | ug/kg | 2000 | ND | 97.5 | 10-200 | 1.02 | 35 | |
| 1,2,3-Trichloropropane | 719 | 500 | ug/kg | 1000 | ND | 71.9 | 60-150 | 9.54 | 35 | |
| 1,2,4-Trimethylbenzene | 1020 | 100 | ug/kg | 1000 | ND | 102 | 75-130 | 2.90 | 35 | |
| 1,3,5-Trimethylbenzene | 990 | 100 | ug/kg | 1000 | ND | 99.0 | 70-130 | 1.01 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | 23.0 | 25-130 | 21.0 | 35 | M2 |
| Vinyl chloride | 1040 | 250 | ug/kg | 2000 | ND | 52.0 | 10-200 | 22.5 | 35 | |
| Xylenes, Total | 3150 | 300 | ug/kg | 3000 | ND | 105 | 70-130 | 2.20 | 35 | |
| Surrogate: Dibromofluoromethane | 140 | | ug/kg | 125 | | 112 | 70-125 | | | |
| Surrogate: Toluene-d8 | 161 | | ug/kg | 125 | | 129 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 148 | | ug/kg | 125 | | 118 | 70-130 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKI0159

Sampled: 09/11/01

Received: 09/11/01

METHOD BEANK OF DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1912 Extracted: 09/24/0 | <u>1</u> | | | | | | | | | |
| Blank Analyzed: 09/24/01 (P1I1912-Bl | LK1) | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | . ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND · | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | • |
| Dibromomethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Report Number:

PKI0159

Received: 09/11/01

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1912 Extracted: 09/24/ | <u>01</u> | | | | | | | | | |
| Blank Analyzed: 09/24/01 (P1I1912-B | BLK1) | | | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| Isopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| Surrogate: Dibromofluoromethane | 28.2 | | ug/l | 25.0 | | 113 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.2 | | ug/l | 25.0 | | 105 | 80-120 | | | |

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

Received: 09/11/01

MUTHOD BLANKYOC DATA.

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1912 Extracted: 09/24/0 | 01 | | | | | | | | | |
| Blank Analyzed: 09/24/01 (P111912-B | LK1) | | | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 23.0 | | ug/l | 25.0 | | 92.0 | 80-120 | | | |
| LCS Analyzed: 09/24/01 (P111912-BS | 1) | | | | | | | | | |
| Acetone | 27.5 | 20 | ug/l | 25.0 | | 110 | 30-200 | | | |
| Benzene | 22.5 | 2.0 | ug/l | 25.0 | | 90.0 | 80-120 | | | |
| Bromobenzene | 24.6 | 5.0 | ug/I | 25.0 | | 98.4 | 80-120 | | | |
| Bromochloromethane | 28.6 | 5.0 | ug/l | 25.0 | | 114 | 80-120 | | | |
| Bromodichloromethane | 27.7 | 2.0 | ug/l | 25.0 | | 111 | 80-130 | | | |
| Bromoform | 30.8 | 5.0 | ug/l | 25.0 | | 123 | 60-140 | | | |
| Bromomethane | 27.8 | 5.0 | ug/i | 25.0 | | 111 | 60-150 | | | |
| 2-Butanone (MEK) | 21.1 | 10 | ug/l | 25.0 | | 84.4 | 30-185 | | | |
| n-Butylbenzene | 21.6 | 5.0 | ug/l | 25.0 | | 86.4 | 75-130 | | | |
| sec-Butylbenzene | 21.8 | 5.0 | ug/l | 25.0 | | 87.2 | 80-125 | | | |
| tert-Butylbenzene | 22.3 | 5.0 | ug/l | 25.0 | | 89.2 | 80-120 | | | |
| Carbon Disulfide | 21.8 | 5.0 | ug/l | 25.0 | | 87.2 | 65-120 | | | |
| Carbon tetrachloride | 30.4 | 5.0 | ug/l | 25.0 | | 122 | 75-150 | | | |
| Chlorobenzene | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| Chloroethane | 23.6 | 5.0 | ug/l | 25.0 | | 94.4 | 80-125 | | | |
| Chloroform | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| Chloromethane | 19.8 | 5.0 | ug/l | 25.0 | | 79.2 | 60-125 | | | |
| 2-Chlorotoluene | 22.5 | 5.0 | ug/l | 25.0 | | 90.0 | 80-120 | | | |
| 4-Chlorotoluene | 22.6 | 5.0 | ug/l | 25.0 | | 90.4 | 80-120 | | | |
| Dibromochloromethane | 31.1 | 2.0 | ug/l | 25.0 | | 124 | 70-150 | | | |
| 1,2-Dibromo-3-chloropropane | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 50-145 | | | |
| 1,2-Dibromoethane (EDB) | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 75-120 | | | |
| Dibromomethane | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 1,2-Dichlorobenzene | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 80-120 | | | |
| 1,3-Dichlorobenzene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| 1,4-Dichlorobenzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| Dichlorodifluoromethane | 22.8 | 5.0 | ug/l | 25.0 | | 91.2 | 25-140 | | | |
| 1,1-Dichloroethane | 23.9 | 2.0 | ug/I | 25.0 | | 95.6 | 80-120 | | | |
| 1,2-Dichloroethane | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | | | |
| 1,1-Dichloroethene | 25.6 | 5.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| cis-1,2-Dichloroethene | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| trans-1,2-Dichloroethene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 80-120 | | | |
| 1,2-Dichloropropane | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 80-120 | | | |
| 1,3-Dichloropropane | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150

Sampled: 09/11/01 Received: 09/11/01

Attention: Jim Clarke

Report Number:

PKI0159

| | | Reporting | | Spike | Source | | %REC | | RPD · | Data |
|-------------------------------------|--------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1912 Extracted: 09/24/0 | <u>1</u> | | | | | | | | | |
| LCS Analyzed: 09/24/01 (P1I1912-BS1 |) | | | | | | | | | |
| 2,2-Dichloropropane | 31.3 | 2.0 | ug/l | 25.0 | | 125 | 75-135 | | | |
| 1,1-Dichloropropene | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 80-120 | | | |
| cis-1,3-Dichloropropene | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 80-120 | | | |
| trans-1,3-Dichloropropene | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 80-120 | | | |
| Ethylbenzene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Hexachlorobutadiene | 25.1 | 5.0 | ug/l | 25.0 | | 100 | 60-145 | | | |
| 2-Hexanone | 22. 7 | 10 | ug/l | 25.0 | | 90.8 | 50-170 | | | |
| Iodomethane | 30.2 | 2.0 | ug/l | 25.0 | | 121 | 40-155 | | | |
| Isopropylbenzene | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| p-Isopropyltoluene | 21.7 | 2.0 | ug/l | 25.0 | | 86.8 | 80-120 | | | |
| Methylene chloride | 23.8 | 5.0 | ug/l | 25.0 | | 95.2 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 23.0 | 10 | ug/l | 25.0 | | 92.0 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 23.9 | 5.0 | ug/l | 25.0 | | 95.6 | 75-135 | | | |
| Naphthalene | 23.8 | 5.0 | ug/l | 25.0 | | 95.2 | 70-130 | | | |
| n-Propylbenzene | 22.6 | 2.0 | ug/l | 25.0 | | 90.4 | 80-120 | | | |
| Styrene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 30.6 | 5.0 | ug/l | 25.0 | | 122 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 70-130 | | | |
| Tetrachloroethene | 28.4 | 2.0 | ug/l | 25.0 | | 114 | 80-125 | | | |
| Toluene | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 23.4 | 5.0 | ug/l | 25.0 | | 93.6 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 23.2 | 5.0 | ug/l | 25.0 | | 92.8 | 80-120 | | | |
| 1,1,1-Trichloroethane | 28.0 | 2.0 | ug/l | 25.0 | | 112 | 80-120 | | | |
| 1,1,2-Trichloroethane | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| Trichloroethene | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| Trichlorofluoromethane | 31.6 | 5.0 | ug/l | 25.0 | | 126 | 75-150 | | | |
| 1,2,3-Trichloropropane | 21.6 | 10 | ug/l | 25.0 | | 86.4 | 65-135 | | | |
| 1,2,4-Trimethylbenzene | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 22.4 | 2.0 | ug/l | 25.0 | | 89.6 | 80-120 | | | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | | 90.4 | 40-120 | | | |
| Vinyl chloride | 24.3 | 5.0 | ug/l | 25.0 | | 97.2 | 80-120 | | | |
| Xylenes, Total | 76.5 | 10 | ug/l | 75.0 | | 102 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 28.4 | | ug/l | 25.0 | | 114 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.8 | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 23.6 | | ug/l | 25.0 | | 94.4 | 80-120 | | | |



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKI0159

Sampled: 09/11/01

Received: 09/11/01

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P111912 Extracted: 09/24/0 | 1 | | | | | | | | | - |
| LCS Dup Analyzed: 09/24/01 (P111912 | | | | | | | | | | |
| Acetone | 34.1 | 20 | ug/l | 25.0 | | 136 | 30-200 | 21.4 | 20 | R6 |
| Benzene | 22.4 | 2.0 | ug/l | 25.0 | | 89.6 | 80-120 | 0.445 | 20 | Ro |
| Bromobenzene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 80-120 | 2.41 | 20 | |
| Bromochloromethane | 27.5 | 5.0 | ug/l | 25.0 | | 110 | 80-120 | 3.92 | 20 | |
| Bromodichloromethane | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 80-130 | 2.19 | 20 | |
| Bromoform | 30.7 | 5.0 | ug/i | 25.0 | | 123 | 60-140 | 0.325 | 20 | |
| Bromomethane | 27.4 | 5.0 | ug/l | 25.0 | | 110 | 60-150 | 1.45 | 20 | |
| 2-Butanone (MEK) | 26.7 | 10 | ug/l | 25.0 | | 107 | 30-185 | 23.4 | 20 | R6 |
| n-Butylbenzene | 21.3 | 5.0 | ug/l | 25.0 | | 85.2 | 75-130 | 1.40 | 20 | |
| sec-Butylbenzene | 21.9 | 5.0 | ug/l | 25.0 | | 87.6 | 80-125 | 0.458 | 20 | |
| tert-Butylbenzene | 22.6 | 5.0 | ug/l | 25.0 | | 90.4 | 80-120 | 1.34 | 20 | |
| Carbon Disulfide | 21.0 | 5.0 | ug/l | 25.0 | | 84.0 | 65-120 | 3.74 | 20 | |
| Carbon tetrachloride | 30.0 | 5.0 | ug/l | 25.0 | | 120 | 75-150 | 1.32 | 20 | |
| Chlorobenzene | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 2.23 | 20 | |
| Chloroethane | 23.0 | 5.0 | ug/l | 25.0 | | 92.0 | 80-125 | 2.58 | 20 | |
| Chloroform | 25.6 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.17 | 20 | |
| Chloromethane | 19.1 | 5.0 | ug/l | 25.0 | | 76.4 | 60-125 | 3.60 | 20 | |
| 2-Chlorotoluene | 22.6 | 5.0 | ug/l | 25.0 | | 90.4 | 80-120 | 0.443 | 20 | |
| 4-Chlorotoluene | 22.9 | 5.0 | ug/l | 25.0 | | 91.6 | 80-120 | 1.32 | 20 | |
| Dibromochloromethane | 31.8 | 2.0 | ug/l | 25.0 | | 127 | 70-150 | 2.23 | 20 | |
| 1,2-Dibromo-3-chloropropane | 26.3 | 5.0 | ug/l | 25.0 | | 105 | 50-145 | 6.27 | 20 | |
| 1,2-Dibromoethane (EDB) | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 75-120 | 2.28 | 20 | |
| Dibromomethane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 1.50 | 20 | |
| 1,2-Dichlorobenzene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | 0.816 | 20 | |
| 1,3-Dichlorobenzene | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 80-120 | 1.65 | 20 | |
| 1,4-Dichlorobenzene | 25.0 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 0.399 | 20 | |
| Dichlorodifluoromethane | 22.9 | 5.0 | ug/l | 25.0 | | 91.6 | 25-140 | 0.438 | 20 | |
| 1,1-Dichloroethane | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | 1.26 | 20 | |
| 1,2-Dichloroethane | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 0.797 | 20 | |
| 1,1-Dichloroethene | 25.5 | 5.0 | ug/l | 25.0 | | 102 | 80-120 | 0.391 | 20 | |
| cis-1,2-Dichloroethene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 2.00 | 20 | |
| trans-1,2-Dichloroethene | 24.7 | 2.0 | ug/l | 25.0 | | 98.8 | 80-120 | 0.806 | 20 | |
| 1,2-Dichloropropane | 22.9 | 2.0 | ug/l | 25.0 | | 91.6 | 80-120 | 1.73 | 20 | |
| 1,3-Dichloropropane | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | 1.23 | 20 | |
| 2,2-Dichloropropane | 30.5 | 2.0 | ug/l | 25.0 | | 122 | 75-135 | 2.59 | 20 | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150

Report Number:

PKI0159

Sampled: 09/11/01

Received: 09/11/01

METHOD BLANKADE DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1912 Extracted: 09/24/0 | <u>)1</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/24/01 (P1I191: | 2-BSD1) | | | | | | | | | |
| 1,1-Dichloropropene | 23.0 | 2.0 | ug/l | 25.0 | | 92.0 | 80-120 | 1.30 | 20 | |
| cis-1,3-Dichloropropene | 24.3 | 2.0 | ug/l | 25.0 | | 97.2 | 80-120 | 1.63 | 20 | |
| trans-1,3-Dichloropropene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 1.63 | 20 | |
| Ethylbenzene | 25.1 | 2.0 | ug/l | 25.0 | | 100 | 80-120 | 1.19 | 20 | |
| Hexachlorobutadiene | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 60-145 | 0.794 | 20 | |
| 2-Hexanone | 27.5 | 10 | ug/l | 25.0 | | 110 | 50-170 | 19.1 | 20 | |
| lodomethane | 29.6 | 2.0 | ug/l | 25.0 | | 118 | 40-155 | 2.01 | 20 | |
| Isopropylbenzene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.56 | 20 | |
| p-lsopropyltoluene | 21.7 | 2.0 | ug/l | 25.0 | | 86.8 | 80-120 | 0.00 | 20 | |
| Methylene chloride | 23.4 | 5.0 | ug/l | 25.0 | | 93.6 | 80-120 | 1.69 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 23.9 | 10 | ug/l | 25.0 | | 95.6 | 70-140 | 3.84 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 24.6 | 5.0 | ug/l | 25.0 | | 98.4 | 75-135 | 2.89 | 20 | |
| Naphthalene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 70-130 | 4.52 | 20 | |
| n-Propylbenzene | 22.7 | 2.0 | ug/l | 25.0 | | 90.8 | 80-120 | 0.442 | 20 | • |
| Styrene | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 0.385 | 20 | |
| 1,1,1,2-Tetrachloroethane | 29.8 | 5.0 | ug/l | 25.0 | | 119 | 65-150 | 2.65 | 20 | |
| 1,1,2,2-Tetrachloroethane | 24.2 | 2.0 | ug/l | 25.0 | | 96.8 | 70-130 | 3.36 | 20 | |
| Tetrachloroethene | 27.3 | 2.0 | ug/l | 25.0 | | 109 | 80-125 | 3.95 | 20 | |
| Toluene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 0.404 | 20 | |
| 1,2,3-Trichlorobenzene | 23.8 | 5.0 | ug/l | .25.0 | | 95.2 | 75-125 | 1.69 | 20 | |
| 1,2,4-Trichlorobenzene | 23.4 | 5.0 | ug/l | 25.0 | | 93.6 | 80-120 | 0.858 | 20 | |
| 1,1,1-Trichloroethane | 27.3 | 2.0 | ug/l | 25.0 | | 109 | 80-120 | 2.53 | 20 | |
| 1,1,2-Trichloroethane | 26.3 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | 0.381 | 20 | |
| Trichloroethene | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | 3.98 | 20 | |
| Trichlorofluoromethane | 30.6 | 5.0 | ug/l | 25.0 | | 122 | 75-150 | 3.22 | 20 | |
| 1,2,3-Trichloropropane | 22.7 | 10 | ug/l | 25.0 | | 90.8 | 65-135 | 4.97 | 20 | |
| 1,2,4-Trimethylbenzene | 23.6 | 2.0 | ug/l | 25.0 | | 94.4 | 80-120 | 0.425 | 20 | |
| 1,3,5-Trimethylbenzene | 22.6 | 2.0 | ug/l | 25.0 | | 90.4 | 80-120 | 0.889 | 20 | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | | 92.8 | 40-120 | 2.62 | 20 | |
| Vinyl chloride | 23.7 | 5.0 | ug/l | 25.0 | | 94.8 | 80-120 | 2.50 | 20 | |
| Xylenes, Total | 76.1 | 10 | ug/l | 75.0 | | 101 | 80-120 | 0.524 | 20 | |
| Surrogate: Dibromofluoromethane | 28.4 | | ug/l | 25.0 | | 114 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.4 | | ug/l | 25.0 | | 106 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 24.1 | | ug/l | 25.0 | | 96.4 | 80-120 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKI0159

Sampled: 09/11/01

Received: 09/11/01

-NETHOD BLANKOC DATA:

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-------------|-----------|-------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1912 Extracted: 09/24 | 4/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/24/01 (P | 111912-MS1) | | | | Source: P | KI0173-0 |)1 | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | | 5-200 | | | M2 |
| Benzene | 26.5 | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | | | |
| Bromobenzene | 26.5 | 5.0 | ug/l | 25.0 | ND | 106 | 80-120 | | | |
| Bromochloromethane | 26.1 | 5.0 | ug/l | 25.0 | ND | 104 | 60-135 | | | |
| Bromodichloromethane | 28.6 | 2.0 | ug/l | 25.0 | ND | 114 | 80-120 | | | |
| Bromoform | 18.3 | 5.0 | ug/l | 25.0 | ND | 73.2 | 40-140 | | | |
| Bromomethane | 33.6 | 5.0 | ug/l | 25.0 | ND | 134 | 25-165 | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | 25.0 | ND | | 10-160 | | | M2 |
| n-Butylbenzene | 28.2 | 5.0 | ug/l | 25.0 | ND | 113 | 75-135 | | | |
| sec-Butylbenzene | 27.3 | 5.0 | ug/l | 25.0 | ND | 109 | 80-135 | | | |
| tert-Butylbenzene | 27.7 | 5.0 | ug/l | 25.0 | ND | 111 | 80-125 | | | |
| Carbon Disulfide | 24.1 | 5.0 | ug/l | 25.0 | ND | 96.4 | 20-120 | | | |
| Carbon tetrachloride | 36.7 | 5.0 | ug/l | 25.0 | ND | 147 | 80-145 | | | M1 |
| Chlorobenzene | 30.6 | 2.0 | ug/l | 25.0 | ND | 122 | 80-120 | | | M1 |
| Chloroethane | 27.6 | 5.0 | ug/l | 25.0 | ND | 110 | 30-150 | | | |
| Chloroform | 29.9 | 2.0 | ug/l | 25.0 | ND | 120 | 80-125 | | | |
| Chloromethane | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 15-140 | | | |
| 2-Chlorotoluene | 26.7 | 5.0 | ug/l | 25.0 | ND | 107 | 80-125 | | | |
| 4-Chlorotoluene | 26.8 | 5.0 | ug/l | 25.0 | ND | 107 | 80-125 | | | |
| Dibromochloromethane | 26.2 | 2.0 | ug/l | 25.0 | ND | 105 | 75-135 | | | |
| 1,2-Dibromo-3-chloropropane | 11.0 | 5.0 | ug/l | 25.0 | ND | 44.0 | 25-185 | | | |
| 1,2-Dibromoethane (EDB) | 19.0 | 2.0 | ug/l | 25.0 | ND | 76.0 | 45-145 | | | |
| Dibromomethane | 20.8 | 2.0 | ug/l | 25.0 | ND | 83.2 | 55-140 | | | |
| 1,2-Dichlorobenzene | 25.3 | 2.0 | ug/l | 25.0 | ND | 101 | 80-120 | | | |
| 1,3-Dichlorobenzene | 26.6 | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | | | |
| 1,4-Dichlorobenzene | 27.1 | 2.0 | ug/l | 25.0 | ND | 108 | 80-120 | | | |
| Dichlorodifluoromethane | 34.0 | 5.0 | ug/l | 25.0 | ND | 136 | 25-145 | | | |
| 1,1-Dichloroethane | 27.8 | 2.0 | ug/l | 25.0 | ND | 111 | 75-120 | | | |
| 1,2-Dichloroethane | 22.3 | 2.0 | ug/l | 25.0 | ND | 89.2 | 60-135 | | | |
| 1,1-Dichloroethene | 30.6 | 5.0 | ug/l | 25.0 | ND | 122 | 55-120 | | | Ml |
| cis-1,2-Dichloroethene | 28.2 | 2.0 | ug/l | 25.0 | ND | 113 | 75-120 | | | |
| trans-1,2-Dichloroethene | 30.0 | 2.0 | ug/l | 25.0 | ND | 120 | 65-120 | | | |
| 1,2-Dichloropropane | 25.3 | 2.0 | ug/l | 25.0 | ND | 101 | 80-125 | | | |
| 1,3-Dichloropropane | 20.4 | 2.0 | ug/l | 25.0 | ND | 81.6 | 55-140 | | | |
| 2,2-Dichloropropane | 43.2 | 2.0 | ug/l | 25.0 | ND | 173 | 45-165 | | | M1 |
| | | | | | | | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

Received: 09/11/01

METEOD BLANKQC DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|--------------|-----------|-------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1912 Extracted: 09/2 | 4/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/24/01 (| P111912-MS1) | | | | Source: F | KI0173-0 | 1 - | | | |
| 1,1-Dichloropropene | 28.8 | 2.0 | ug/l | 25.0 | ND | 115 | 80-120 | | | |
| cis-1,3-Dichloropropene | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 80-120 | | | |
| trans-1,3-Dichloropropene | 22.0 | 2.0 | ug/l | 25.0 | ND | 88.0 | 70-120 | | | |
| Ethylbenzene | 30.6 | 2.0 | ug/l | 25.0 | ND | 122 | 80-120 | | | M1 |
| Hexachlorobutadiene | 33.0 | 5.0 | ug/l | 25.0 | ND | 132 | 80-135 | | | |
| 2-Hexanone | 10.0 | 10 | ug/l | 25.0 | ND | 40.0 | 25-185 | | | |
| Iodomethane | 34.7 | 2.0 | ug/l | 25.0 | ND. | 139 | 30-155 | | | |
| Isopropylbenzene | 30.9 | 2.0 | ug/l | 25.0 | ND | 124 | 80-125 | | | |
| p-Isopropyltoluene | 27.5 | 2.0 | ug/l | 25.0 | ND | 110 | 80-125 | | | |
| Methylene chloride | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 55-125 | | | |
| 4-Methyl-2-pentanone (MIBK) | 12.3 | 10 | ug/l | 25.0 | ND | 49.2 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.0 | 5.0 | ug/l | 25.0 | ND | 100 | 55-135 | | | |
| Naphthalene | 13.2 | 5.0 | ug/l | 25.0 | ND | 52.8 | 15-160 | | | |
| n-Propylbenzene | 27.8 | 2.0 | ug/l | 25.0 | ND | 111 | 80-130 | | | |
| Styrene | 29.2 | 2.0 | ug/l | 25.0 | ND | 117 | 60-135 | | | |
| 1,1,1,2-Tetrachloroethane | 33.1 | 5.0 | ug/l | 25.0 | ND | 132 | 80-135 | | | |
| 1,1,2,2-Tetrachloroethane | 15.3 | 2.0 | ug/l | 25.0 | ND | 61.2 | 35-150 | | | |
| Tetrachloroethene | 34.3 | 2.0 | ug/l | 25.0 | ND | 137 | 80-120 | | | Ml |
| Toluene | 29.5 | 2.0 | ug/l | 25.0 | ND | 118 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 18.1 | 5.0 | ug/l | 25.0 | ND | 72.4 | 45-145 | | | |
| 1,2,4-Trichlorobenzene | 21.7 | 5.0 | ug/l | 25.0 | ND | 86.8 | 65-130 | | | |
| 1,1,1-Trichloroethane | 34.0 | 2.0 | ug/l | 25.0 | ND | 136 | 80-120 | | | Ml |
| 1,1,2-Trichloroethane | 21.2 | 2.0 | ug/l | 25.0 | ND | 84.8 | 55-145 | | | |
| Trichloroethene | 29.8 | 2.0 | ug/l | 25.0 | ND | 119 | 80-120 | | | |
| Trichlorofluoromethane | 38.0 | 5.0 | ug/l | 25.0 | ND | 152 | 70-145 | | | Ml |
| 1,2,3-Trichloropropane | 13.0 | 10 | ug/l | 25.0 | ND | 52.0 | 20-160 | | | |
| 1,2,4-Trimethylbenzene | 28.8 | 2.0 | ug/l | 25.0 | ND | 115 | 70-135 | | | |
| 1,3,5-Trimethylbenzene | 27.4 | 2.0 | ug/l | 25.0 | ND | 110 | 80-125 | | | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | ND · | 64.0 | 25-130 | | | |
| Vinyl chloride | 33.7 | 5.0 | ug/l | 25.0 | ND | 135 | 25-135 | | | |
| Xylenes, Total | 90.7 | 10 | ug/l | 75.0 | ND | 121 | 80-120 | | | Ml |
| Surrogate: Dibromofluoromethane | 24.5 | | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.3 | | ug/l | 25.0 | | 105 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 23.0 | | ug/l | 25.0 | | 92.0 | 80-120 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKI0159

Sampled: 09/11/01

Received: 09/11/01

| Matrix Spike Dup Analyzed: 09/24/01 PIII912-MSD1) | Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC | RPD | RPD | Data |
|--|---|--------|--------------------|-------|----------------|------------------|-----------|--------|-------|-------|------------|
| Matrix Spike Dup Anniyzed: 09/24/01 PIII1912-MSDI Caccone ND 20 ug/l 25.0 ND 0.2 80-120 3.45 20 M2 Benzene 25.6 2.0 ug/l 25.0 ND 103 80-120 3.45 20 M2 Bromochenzene 25.8 2.0 ug/l 25.0 ND 103 80-120 3.65 20 M2 Bromochenzene 25.6 2.0 ug/l 25.0 ND 103 80-120 26.8 20 M2 Bromochenzene 25.6 2.0 ug/l 25.0 ND 103 80-120 26.9 20 M2 M2 M2 M2 M2 M2 M2 | • | | Zimit | Omis | Level | Nesun | 70 KEC | Limits | KPD | Limit | Qualifiers |
| Penzene ND 20 | | | an.4) | | | | | | | | |
| Benzene 25.6 2.0 ug/l 25.0 ND 102 80.120 3.45 20 | | | - | ,, | | | PK10173-0 | | | | |
| Bromobenzene 25.8 5.0 ug/l 25.0 ND 103 80-120 2.68 20 | | | | - | | | | | | 20 | M2 |
| Bromochloromethane 22.3 5.0 ug/l 25.0 ND 89.2 60-135 15.7 20 | _ | | | _ | | | | | 3.45 | 20 | |
| Bromodichloromethane 25.6 2.0 ug/l 25.0 ND 102 80-120 11.1 20 20 20 20 20 20 20 2 | | | | • | | | | | 2.68 | 20 | |
| Bromoferm 14.1 5.0 ug/l 25.0 ND 56.4 40.140 25.9 20 R4 | | | | | | | | | | | |
| Bromomethane 32.7 5.0 ug/l 25.0 ND 131 25.165 2.71 20 M2 | | | | | | | | | | | |
| 2-Butanone (MEK) ND 10 ug/l 25.0 ND 10-160 20 M2 | | | | | | | | | | | R4 |
| No. No. | | | | • | | | 131 | | 2.71 | - | |
| Second | ` , | | | - | | | | | | 20 | M2 |
| Tert-Buylbenzene 19.3 5.0 19.6 12.5 10.0 11.7 18.0 12.5 13.0 12.0 13. | • | | | _ | | | | | | | |
| Carbon Disulfide 23.1 5.0 ug/l 25.0 ND 92.4 20-120 4.24 20 | • | | | - | | | | | 5.35 | 20 | |
| Carbon tetrachloride 36.3 5.0 ug/l 25.0 ND 145 80-145 1.10 20 | • | | | - | | | | | | | |
| Chlorobenzene 30.4 2.0 ug/l 25.0 ND 122 80-120 0.656 20 M1 | | | | _ | | | | 20-120 | 4.24 | 20 | |
| Chloroethane 28.3 5.0 ug/l 25.0 ND 113 30.150 2.50 20 Chloroform 28.7 2.0 ug/l 25.0 ND 115 80.125 4.10 20 Chloromethane 22.4 5.0 ug/l 25.0 ND 115 80.125 4.10 20 Chloromethane 22.4 5.0 ug/l 25.0 ND 112 80.125 4.75 20 Chlorotoluene 28.0 5.0 ug/l 25.0 ND 112 80.125 3.30 20 Chlorotoluene 27.7 5.0 ug/l 25.0 ND 111 80.125 3.30 20 Chlorotoluene 21.9 2.0 ug/l 25.0 ND 87.6 75.135 17.9 20 R4 Chlorotoluene 21.9 2.0 ug/l 25.0 ND 87.6 75.135 31.5 20 R4 R4 R4 R4 R4 R4 R4 R | | | | _ | | | | | 1.10 | 20 | |
| Chloroform 28.7 2.0 ug/l 25.0 ND 115 80-125 4.10 20 | | | | - | | | | | 0.656 | | M1 |
| Chloromethane 22.4 5.0 ug/l 25.0 ND 89.6 15-140 4.79 20 | | | | _ | | | | | 2.50 | 20 | |
| 2-Chlorotoluene 28.0 5.0 ug/l 25.0 ND 112 80-125 4.75 20 | | | | _ | | | | 80-125 | 4.10 | 20 | |
| 4-Chlorotoluene 27.7 5.0 ug/l 25.0 ND 111 80-125 3.30 20 Dibromochloromethane 21.9 2.0 ug/l 25.0 ND 87.6 75-135 17.9 20 1,2-Dibromo-3-chloropropane 8.01 5.0 ug/l 25.0 ND 87.6 75-135 17.9 20 1,2-Dibromoethane (EDB) 16.1 2.0 ug/l 25.0 ND 87.6 75-135 17.9 20 Dibromoethane (EDB) 16.1 2.0 ug/l 25.0 ND 64.4 45-145 16.5 20 Dibromomethane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 17.2 20 1,2-Dichlorobenzene 23.2 2.0 ug/l 25.0 ND 92.8 80-120 8.66 20 1,3-Dichlorobenzene 26.6 2.0 ug/l 25.0 ND 106 80-120 0.00 20 1,4-Dichlorobenzene 26.7 2.0 ug/l 25.0 ND 106 80-120 0.00 20 1,4-Dichlorodifluoromethane 33.6 5.0 ug/l 25.0 ND 134 25-145 1.18 20 1,1-Dichlorothane 27.6 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichlorothane 19.0 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichlorothane 27.0 2.0 ug/l 25.0 ND 106 80-120 1.32 20 M1 1,1-Dichlorothane 27.6 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichlorothane 27.0 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichlorothane 27.0 2.0 ug/l 25.0 ND 108 75-120 1.32 20 M1 cis-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 1,1-Dichlorothene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 92.8 80-125 8.66 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 | • | | | • | | | 89.6 | 15-140 | 4.79 | 20 | |
| Dibromochloromethane 21.9 2.0 ug/l 25.0 ND 87.6 75-135 17.9 20 1,2-Dibromo-3-chloropropane 8.01 5.0 ug/l 25.0 ND 32.0 25-185 31.5 20 R4 1,2-Dibromoethane (EDB) 16.1 2.0 ug/l 25.0 ND 64.4 45-145 16.5 20 1,2-Dibromoethane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 17.2 20 1,2-Dichlorobenzene 23.2 2.0 ug/l 25.0 ND 92.8 80-120 8.66 20 1,3-Dichlorobenzene 26.6 2.0 ug/l 25.0 ND 106 80-120 0.00 20 1,4-Dichlorobenzene 26.7 2.0 ug/l 25.0 ND 107 80-120 1.49 20 20 1,4-Dichloroethane 27.6 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichloroethane 19.0 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichloroethane 19.0 2.0 ug/l 25.0 ND 121 55-120 1.32 20 M1 25-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 1,2-Dichloroethene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloroethene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,3-Dichloropropane 23.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 92.8 80-125 8.66 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1.3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1.3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 13.0 15.3 20 13.0 15.3 20 13.0 15.3 20 13.0 15.3 20 13.0 15.0 15.3 20 13.0 15.3 20 13.0 15.3 20 13.0 15.0 15.3 20 13.0 15.3 20 13.0 15.3 20 13.0 15.0 15.3 20 15.0 15.3 20 15.0 15.3 20 15.0 15.0 15.3 20 15.0 15.3 20 15.0 15.3 20 15.0 15.0 15.3 20 15.0 15.3 20 15.0 15.0 15.0 15.3 20 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | | | | • | | ND | 112 | 80-125 | 4.75 | 20 | |
| 1,2-Dibromo-3-chloropropane 8.01 5.0 ug/l 25.0 ND 32.0 25-185 31.5 20 R4 1,2-Dibromoethane (EDB) 16.1 2.0 ug/l 25.0 ND 64.4 45-145 16.5 20 Dibromomethane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 17.2 20 1,2-Dichlorobenzene 23.2 2.0 ug/l 25.0 ND 92.8 80-120 8.66 20 1,3-Dichlorobenzene 26.6 2.0 ug/l 25.0 ND 106 80-120 0.00 20 1,4-Dichlorobenzene 26.7 2.0 ug/l 25.0 ND 107 80-120 1.49 20 1,4-Dichloromethane 33.6 5.0 ug/l 25.0 ND 134 25-145 1.18 20 1,1-Dichloroethane 27.6 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichloroethane 19.0 2.0 ug/l 25.0 ND 76.0 60-135 16.0 20 1,1-Dichloroethene 27.0 2.0 ug/l 25.0 ND 121 55-120 1.32 20 M1 cis-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 trans-1,2-Dichloroethene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 92.8 80-125 8.66 20 1,3-Dichloropropane 11.6 20.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 11.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 11.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 11.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 11.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 11.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 11.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 11.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 11.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 11.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 11.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichlor | | | | • | | | 111 | 80-125 | 3.30 | 20 | |
| 1,2-Dibromoethane (EDB) 16.1 2.0 ug/l 25.0 ND 64.4 45-145 16.5 20 | | | | _ | | | 87.6 | 75-135 | 17.9 | 20 | |
| Dibromomethane | | | | - | | | 32.0 | 25-185 | 31.5 | 20 | R4 |
| 1,2-Dichlorobenzene 23.2 2.0 ug/l 25.0 ND 92.8 80-120 8.66 20 1,3-Dichlorobenzene 26.6 2.0 ug/l 25.0 ND 106 80-120 0.00 20 1,4-Dichlorobenzene 26.7 2.0 ug/l 25.0 ND 107 80-120 1.49 20 Dichlorodifluoromethane 33.6 5.0 ug/l 25.0 ND 134 25-145 1.18 20 1,1-Dichloroethane 27.6 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,1-Dichloroethane 19.0 2.0 ug/l 25.0 ND 76.0 60-135 16.0 20 1,1-Dichloroethene 30.2 5.0 ug/l 25.0 ND 121 55-120 1.32 20 M1 cis-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 70.0 <t< td=""><td>• • • • • • • • • • • • • • • • • • • •</td><td></td><td></td><td>•</td><td></td><td></td><td>64.4</td><td>45-145</td><td>16.5</td><td>20</td><td></td></t<> | • | | | • | | | 64.4 | 45-145 | 16.5 | 20 | |
| 1,3-Dichlorobenzene 26.6 2.0 ug/l 25.0 ND 106 80-120 0.00 20 1,4-Dichlorobenzene 26.7 2.0 ug/l 25.0 ND 107 80-120 1.49 20 Dichlorodifluoromethane 33.6 5.0 ug/l 25.0 ND 134 25-145 1.18 20 1,1-Dichloroethane 27.6 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichloroethane 19.0 2.0 ug/l 25.0 ND 76.0 60-135 16.0 20 1,1-Dichloroethene 30.2 5.0 ug/l 25.0 ND 121 55-120 1.32 20 M1 cis-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 <td< td=""><td></td><td></td><td></td><td>•</td><td></td><td>ND</td><td>70.0</td><td>55-140</td><td>17.2</td><td>20</td><td></td></td<> | | | | • | | ND | 70.0 | 55-140 | 17.2 | 20 | |
| 1,4-Dichlorobenzene 26.7 2.0 ug/l 25.0 ND 107 80-120 1.49 20 Dichlorodifluoromethane 33.6 5.0 ug/l 25.0 ND 134 25-145 1.18 20 1,1-Dichloroethane 27.6 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichloroethane 19.0 2.0 ug/l 25.0 ND 76.0 60-135 16.0 20 1,1-Dichloroethene 30.2 5.0 ug/l 25.0 ND 121 55-120 1.32 20 M1 cis-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 trans-1,2-Dichloroethene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 92.8 80-125 8.66 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 | • | | | _ | | | 92.8 | 80-120 | 8.66 | 20 | |
| Dichlorodifluoromethane 33.6 5.0 ug/l 25.0 ND 134 25-145 1.18 20 1,1-Dichloroethane 27.6 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichloroethane 19.0 2.0 ug/l 25.0 ND 76.0 60-135 16.0 20 1,1-Dichloroethene 30.2 5.0 ug/l 25.0 ND 121 55-120 1.32 20 M1 cis-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 trans-1,2-Dichloroethene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 | | | | | | ND | 106 | 80-120 | 0.00 | 20 | |
| 1,1-Dichloroethane 27.6 2.0 ug/l 25.0 ND 110 75-120 0.722 20 1,2-Dichloroethane 19.0 2.0 ug/l 25.0 ND 76.0 60-135 16.0 20 1,1-Dichloroethene 30.2 5.0 ug/l 25.0 ND 121 55-120 1.32 20 M1 cis-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 trans-1,2-Dichloroethene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 92.8 80-125 8.66 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 | | | | ug/l | 25.0 | ND | 107 | 80-120 | 1.49 | 20 | |
| 1,2-Dichloroethane 19.0 2.0 ug/l 25.0 ND 76.0 60-135 16.0 20 1,1-Dichloroethene 30.2 5.0 ug/l 25.0 ND 121 55-120 1.32 20 M1 cis-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 trans-1,2-Dichloroethene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 92.8 80-125 8.66 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 | | | | ug/i | 25.0 | ND | 134 | 25-145 | 1.18 | 20 | |
| 1,1-Dichloroethene 30.2 5.0 ug/l 25.0 ND 121 55-120 1.32 20 M1 cis-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 trans-1,2-Dichloroethene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 92.8 80-125 8.66 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 2.0 2.0 2.0 2.0 2.0 2.0 ND 70.0 55-140 15.3 20 | | | | ug/l | 25.0 | ND | 110 | 75-120 | 0.722 | 20 | |
| cis-1,2-Dichloroethene 27.0 2.0 ug/l 25.0 ND 108 75-120 4.35 20 trans-1,2-Dichloroethene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 92.8 80-125 8.66 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 2.0 </td <td>·</td> <td></td> <td></td> <td>ug/l</td> <td>25.0</td> <td>ND</td> <td>76.0</td> <td>60-135</td> <td>16.0</td> <td>20</td> <td></td> | · | | | ug/l | 25.0 | ND | 76.0 | 60-135 | 16.0 | 20 | |
| trans-1,2-Dichloroethene 29.2 2.0 ug/l 25.0 ND 117 65-120 2.70 20 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 92.8 80-125 8.66 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 2 3. Dichloropropane 41.0 2.0 | | | | - | | ND | 121 | 55-120 | 1.32 | 20 | M1 |
| 1,2-Dichloropropane 23.2 2.0 ug/l 25.0 ND 92.8 80-125 8.66 20 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 2.0 1.0 | - | | | | 25.0 | ND | 108 | 75-120 | 4.35 | 20 | |
| 1,3-Dichloropropane 17.5 2.0 ug/l 25.0 ND 70.0 55-140 15.3 20 | | | | ug/l | 25.0 | ND | 117 | 65-120 | 2.70 | 20 | |
| 2. Dishlarananana | - · | | 2.0 | ug/l | 25.0 | ND | 92.8 | 80-125 | 8.66 | 20 | |
| 2,2-Dichloropropane 41.8 2.0 ug/l 25.0 ND 167 45-165 3.29 20 M1 | • • | | 2.0 | ug/l | 25.0 | ND | 70.0 | 55-140 | 15.3 | 20 | |
| | 2,2-Dichloropropane | 41.8 | 2.0 | ug/l | 25.0 | ND | 167 | 45-165 | 3.29 | 20 | M1 |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Report Number:

PKI0159

Received: 09/11/01

METRODERIANK/OCIDATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|--------------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1912 Extracted: 09/24/0 | <u>)1</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/24/01 | (P1I1912-M | SD1) | | | Source: F | KI0173-0 | 1 . | | | |
| 1,1-Dichloropropene | 28.4 | 2.0 | ug/l | 25.0 | ND | 114 | 80-120 | 1.40 | 20 | |
| cis-1,3-Dichloropropene | 22.1 | 2.0 | ug/l | 25.0 | ND | 88.4 | 80-120 | 11.9 | 20 | |
| trans-1,3-Dichloropropene | 19.3 | 2.0 | ug/l | 25.0 | ND | 77.2 | 70-120 | 13.1 | 20 | |
| Ethylbenzene | 31.4 | 2.0 | ug/l | 25.0 | ND | 126 | 80-120 | 2.58 | 20 | M1 |
| Hexachlorobutadiene | 31.5 | 5.0 | ug/l | 25.0 | ND | 126 | 80-135 | 4.65 | 20 | |
| 2-Hexanone | ND | 10 | ug/l | 25.0 | ND | 31.5 | 25-185 | 23.7 | 20 | R4 |
| Iodomethane | 33.6 | 2.0 | ug/l | 25.0 | ND | 134 | 30-155 | 3.22 | 20 | |
| lsopropylbenzene | 31.5 | 2.0 | ug/l | 25.0 | ND | 126 | 80-125 | 1.92 | 20 | M1 |
| p-Isopropyltoluene | 28.3 | 2.0 | ug/l | 25.0 | ND | 113 | 80-125 | 2.87 | 20 | |
| Methylene chloride | 22.5 | 5.0 | ug/l | 25.0 | ND | 90.0 | 55-125 | 8.51 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | 25.0 | ND | 37.7 | 10-175 | 26.4 | 20 | R4 |
| Methyl-tert-butyl Ether (MTBE) | 21.5 | 5.0 | ug/l | 25.0 | ND | 86.0 | 55-135 | 15.1 | 20 | |
| Naphthalene | 9.26 | 5.0 | ug/l | 25.0 | ND | 37.0 | 15-160 | 35.1 | 20 | R4 |
| n-Propyibenzene | 29.5 | 2.0 | ug/l | 25.0 | ND | 118 | 80-130 | 5.93 | 20 | |
| Styrene | 27.8 | 2.0 | ug/l | 25.0 | ND | 111 | 60-135 | 4.91 | 20 | |
| 1,1,1,2-Tetrachloroethane | 31.6 | 5.0 | ug/l | 25.0 | ND | 126 | 80-135 | 4.64 | 20 | |
| 1,1,2,2-Tetrachloroethane | 13.3 | 2.0 | ug/l | 25.0 | ND | 53.2 | 35-150 | 14.0 | 20 | |
| Tetrachloroethene | 35.2 | 2.0 | ug/l | 25.0 | ND | 141 | 80-120 | 2.59 | 20 | M1 |
| Toluene | 30.0 | 2.0 | ug/l | 25.0 | ND | 120 | 80-120 | 1.68 | 20 | |
| 1,2,3-Trichlorobenzene | 12.8 | 5.0 | ug/l | 25.0 | ND | 51.2 | 45-145 | 34.3 | 20 | R4 |
| 1,2,4-Trichlorobenzene | 17.5 | 5.0 | ug/l | 25.0 | ND | 70.0 | 65-130 | 21.4 | 20 | R4 |
| 1,1,1-Trichloroethane | 33.5 | . 2.0 | ug/l | 25.0 | ND | 134 | 80-120 | 1.48 | 20 | M 1 |
| 1,1,2-Trichloroethane | 18.4 | 2.0 | ug/l | 25.0 | ND | 73.6 | 55-145 | 14.1 | 20 | |
| Trichloroethene | 29.3 | 2.0 | ug/l | 25.0 | ND | 117 | 80-120 | 1.69 | 20 | |
| Trichlorofluoromethane | 38.7 | 5.0 | ug/l | 25.0 | ND | 155 | 70-145 | 1.83 | 20 | M1 |
| 1,2,3-Trichloropropane | 11.2 | 10 | ug/l | 25.0 | ND | 44.8 | 20-160 | 14.9 | 20 | |
| 1,2,4-Trimethylbenzene | 29.5 | 2.0 | ug/l | 25.0 | ND | 118 | 70-135 | 2.40 | 20 | |
| 1,3,5-Trimethylbenzene | 28.8 | 2.0 | u g/l | 25.0 | ND | 115 | 80-125 | 4.98 | 20 | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | ND | 50.4 | 25-130 | 23.8 | 20 | R4 |
| Vinyl chloride | 33.1 | 5.0 | ug/l | 25.0 | ND | 132 | 25-135 | 1.80 | 20 | |
| Xylenes, Total | 93.3 | 10 | ug/l | 75.0 | ND | 124 | 80-120 | 2.83 | 20 | M1 |
| Surrogate: Dibromofluoromethane | 23.5 | | ug/l | 25.0 | | 94.0 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.4 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 24.0 | | ug/l | 25.0 | | 96.0 | 80-120 | | | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

Received: 09/11/01

METHOD BLANK/QC DATA

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------|-------------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1219 Extracted: 09/12/01 | <u>L</u> | | | | | | | | | |
| Blank Analyzed: 09/13/01 (P111219-BL | K1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Chromium | ND | 1.0 | mg/kg | | | | | | | |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 09/13/01 (P111219-BS1) |) | | | | | | | | | • |
| Arsenic | 107 | 5.0 | mg/kg | 100 | | 107 | 80-120 | | | |
| Chromium | 108 | 1.0 | mg/kg | 100 | | 108 | 80-120 | | | |
| Copper | 109 | 2.0 | mg/kg | 100 | | 109 | 80-120 | | | |
| Nickel | 106 | 5.0 | mg/kg | 100 | | 106 | 80-120 | | | |
| LCS Dup Analyzed: 09/13/01 (P111219 | -BSD1) | | | | | | | | | |
| Arsenic | 101 | 5.0 | mg/kg | 100 | | 101 | 80-120 | 5.77 | 20 | |
| Chromium | 101 | 1.0 | mg/kg | 100 | | 101 | 80-120 | 6.70 | 20 | |
| Copper | 102 | 2.0 | mg/kg | 100 | | 102 | 80-120 | 6.64 | 20 | |
| Nickel | 101 | 5.0 | mg/kg | 100 | | 101 | 80-120 | 4.83 | 20 | |
| Matrix Spike Analyzed: 09/13/01 (P111 | 219-MS1) | | | | Source: P | K10089-0 | 5 | | | |
| Arsenic | 94.2 | 5.0 | mg/kg | 100 | ND | 94.2 | 75-125 | | | |
| Chromium | 118 | 1.0 | mg/kg | 100 | 14 | 104 | 75-125 | | | |
| Copper | 135 | 2.0 | mg/kg | 100 | 27 | 108 | 75-125 | | | |
| Nickel | 102 | 5.0 | mg/kg | 100 | 6.6 | 95.4 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/13/01 (| P111219-MS | D 1) | | | Source: P | K10089-0 | 5 | | | |
| Arsenic | 94.0 | 5.0 | mg/kg | 100 | ND | 94.0 | 75-125 | 0.213 | 20 | |
| Chromium | 109 | 1.0 | mg/kg | 100 | 14 | 95.0 | 75-125 | 7.93 | 20 | • |
| Copper | 133 | 2.0 | mg/kg | 100 | 27 | 106 | 75-125 | 1.49 | 20 | |
| Nickel | 96.4 | 5.0 | mg/kg | 100 | 6.6 | 89.8 | 75-125 | 5.65 | 20 | |



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Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

Reporting

70211-0-0150

Sampled: 09/11/01

%REC

Received: 09/11/01

RPD

Data

PKI0159 Report Number:

TOTAL METALS

Spike

Source

| | | reporting | | Spine | Dourte | | /UILLC | | IXI D | Data |
|-------------------------------------|--------------|-----------|-------|-------|-----------|-----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P111805 Extracted: 09/18 | <u>/01</u> | | | | | | | | | |
| Blank Analyzed: 09/20/01 (P1I1805- | BLK1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Chromium | ND | 1.0 | mg/kg | | | | | | | |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 09/20/01 (P1I1805-B | S1) | | | | | | | | | |
| Arsenic | 89.9 | 5.0 | mg/kg | 100 | | 89.9 | 80-120 | | | |
| Chromium | 88.0 | 1.0 | mg/kg | 100 | | 88.0 | 80-120 | | | |
| Copper | 90.2 | 2.0 | mg/kg | 100 | | 90.2 | 80-120 | | | |
| Nickel | 86.6 | 5.0 | mg/kg | 100 | | 86.6 | 80~120 | | | |
| LCS Dup Analyzed: 09/20/01 (P1118 | 05-BSD1) | | | | | | | | | |
| Arsenic | 91.6 | 5.0 | mg/kg | 100 | | 91.6 | 80-120 | 1.87 | 20 | |
| Chromium | 89.4 | 1.0 | mg/kg | 100 | | 89.4 | 80-120 | 1.58 | 20 | |
| Copper | 90.2 | 2.0 | mg/kg | 100 | | 90.2 | 80-120 | 0.00 | 20 | |
| Nickel | 87.8 | 5.0 | mg/kg | 100 | | 87.8 | 80-120 | 1.38 | 20 | |
| Matrix Spike Analyzed: 09/20/01 (P) | II1805-MS1) | | | | Source: 1 | PK10226-1 | 10 | | | |
| Arsenic | 77.3 | 5.0 | mg/kg | 100 | ND | 77.3 | 75-125 | | | |
| Chromium | 95.8 | 1.0 | mg/kg | 100 | 12 | 83.8 | 75-125 | | | |
| Copper | 102 | 2.0 | mg/kg | 100 | 7.6 | 94.4 | 75-125 | | | |
| Nickel | 86.1 | 5.0 | mg/kg | 100 | ND | 81.4 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/20/0 | 1 (P1I1805-M | ISD1) | | | Source: 1 | PKI0226-1 | 10 | | | |
| Arsenic | 80.5 | 5.0 | mg/kg | 100 | ND | 80.5 | 75-125 | 4.06 | 20 | |
| Chromium | 99.4 | 1.0 | mg/kg | 100 | 12 | 87.4 | 75-125 | 3.69 | 20 | |
| Copper | 99.5 | 2.0 | mg/kg | 100 | 7.6 | 91.9 | 75-125 | 2.48 | 20 | |
| Nickel | 89.3 | 5.0 | mg/kg | 100 | ND | 84.6 | 75-125 | 3.65 | 20 | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150

Report Number:

PKI0159

Sampled: 09/11/01

Received: 09/11/01

METHOD BLANK QC DATA.

TOTAL METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|-------------|-------------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2415 Extracted: 09/24/01 | <u>.</u> | | | | | | | | | |
| Blank Analyzed: 09/24/01 (P112415-BL | K1) | | | | | | | | | |
| Chromium VI | ND | 1.0 | mg/kg | | | | | | | |
| LCS Analyzed: 09/24/01 (P112415-BS1) |) | | | | | | | | | |
| Chromium VI | 9.73 | 1.0 | mg/kg | 10.0 | | 97.3 | 85-115 | | | |
| LCS Dup Analyzed: 09/24/01 (P112415- | -BSD1) | | | | | | | | | |
| Chromium VI | 8.93 | 1.0 | mg/kg | 10.0 | | 89.3 | 85-115 | 8.57 | 20 | |
| Matrix Spike Analyzed: 09/24/01 (P112 | 415-MS1) | | | | Source: P | KI0159-0 | 7 | | | |
| Chromium VI | 9.08 | 1.0 | mg/kg | 10.0 | ND | 89.3 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 09/24/01 (| P112415-MSI | D1) | | | Source: P | K10159-0 | 7 | | | |
| Chromium VI | 9.08 | 1.0 | mg/kg | 10.0 | ND | 89.3 | 85-115 | 0.00 | 20 | |
| Batch: P1I2605 Extracted: 09/26/01 | | | | | | | | | | |
| Blank Analyzed: 09/28/01 (P112605-BL | K1) | | | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 09/28/01 (P112605-BS1) |) | | | | | | | | | |
| Zinc | 104 | 5.0 | mg/kg | 100 | | 104 | 80-120 | | | |
| Matrix Spike Analyzed: 09/28/01 (P112 | 605-MS1) | | | | Source: P | KI0365-0 | 1 | | | |
| Zinc | 121 | 5.0 | mg/kg | 100 | 43 | 78.0 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/28/01 (| P112605-MSI | D1) | | | Source: P | K10365-0 | 1 | | | |
| Zinc | 130 | 5.0 | mg/kg | 100 | 43 | 87.0 | 75-125 | 7.17 | 20 | |



%REC

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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

RPD

Data

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

Reporting

PKI0159

Received: 09/11/01

MELHOD BLANKQU DATA

Spike

Source

TOTAL RECOVERABLE METALS

| | | reporting | | Spine | Domice | | ,,,,,,,,,, | | 111 2 | Duth |
|---------------------------------------|------------|-----------|-------|--------|-----------|----------|------------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P111206 Extracted: 09/12/0 | <u>L</u> | | | | | | | | | |
| Blank Analyzed: 09/12/01 (P1I1206-BI | .K1) | | | | | | | | | |
| Chromium VI | ND | 0.025 | mg/l | | | | | | | |
| LCS Analyzed: 09/12/01 (P1I1206-BS1 |) | | | | | | | | | |
| Chromium VI | 0.0993 | 0.050 | mg/l | 0.100 | | 99.3 | 85-115 | | | |
| Matrix Spike Analyzed: 09/12/01 (P1I1 | 206-MS1) | | | | Source: F | KI0159-0 |)6 | | | |
| Chromium VI | 0.0521 | 0.025 | mg/l | 0.0500 | ND | 104 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 09/12/01 | (P111206-M | SD1) | | | Source: F | KI0159-0 |)6 | | | |
| Chromium VI | 0.0521 | 0.025 | mg/l | 0.0500 | ND | 104 | 85-115 | 0.00 | 20 | |
| Batch: P1I1815 Extracted: 09/18/0 | <u>1</u> | | | | | | | | | |
| Blank Analyzed: 09/19/01 (P111815-BI | .K1) | | | | | | | | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| LCS Analyzed: 09/19/01 (P1I1815-BS1 |) | | | | | | | | | |
| Arsenic | 0.981 | 0.050 | mg/l | 1.00 | | 98.1 | 85-115 | | | |
| Chromium | 0.970 | 0.010 | mg/l | 1.00 | | 97.0 | 85-115 | | | |
| Copper | 0.968 | 0.020 | mg/l | 1.00 | | 96.8 | 85-115 | | | |
| Nickel | 0.954 | 0.050 | mg/l | 1.00 | | 95.4 | 85-115 | | | |
| Zinc | 0.996 | 0.050 | mg/l | 1.00 | | 99.6 | 85-115 | | | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0159

Received: 09/11/01

MECHOD BLANKQC DATA

TOTAL RECOVERABLE METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1815 Extracted: 09/18 | <u>/01</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/19/01 (P1118 | 15-BSD1) | | | | | | | | | |
| Arsenic | 0.991 | 0.050 | mg/l | 1.00 | | 99.1 | 85-115 | 1.01 | 20 | |
| Chromium | 0.976 | 0.010 | mg/l | 1.00 | | 97.6 | 85-115 | 0.617 | 20 | |
| Copper | 0.976 | 0.020 | mg/l | 1.00 | | 97.6 | 85-115 | 0.823 | 20 | |
| Nickel | 0.961 | 0.050 | mg/l | 1.00 | | 96.1 | 85-115 | 0.731 | 20 | |
| Zinc | 1.01 | 0.050 | mg/l | 1.00 | | 101 | 85-115 | 1.40 | 20 | |
| Matrix Spike Analyzed: 09/19/01 (P1 | II1815-MS1) | | | | Source: P | KI0142-0 | 3 | | | |
| Arsenic | 1.06 | 0.050 | mg/l | 1.00 | ND | 106 | 70-130 | | | |
| Chromium | 1.07 | 0.010 | mg/l | 1.00 | 0.053 | 102 | 70-130 | | | |
| Copper | 1.04 | 0.020 | mg/l | 1.00 | ND | 104 | 70-130 | | | |
| Nickel | 1.00 | 0.050 | ıng/l | 1.00 | ND | 100 | 70-130 | | | |
| Zinc | 1.11 | 0.050 | mg/l | 1.00 | ND | 108 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/19/01 | 1 (P1I1815-M | SD1) | | | Source: P | KI0142-0 | 3 | | | |
| Arsenic | 1.06 | 0.050 | mg/l | 1.00 | ND | 106 | 70-130 | 0.00 | 20 | |
| Chromium | 1.07 | 0.010 | mg/l | 1.00 | 0.053 | 102 | 70-130 | 0.00 | 20 | |
| Copper | 1.04 | 0.020 | mg/l | 1.00 | ND | 104 | 70-130 | 0.00 | 20 | |
| Nickel | 1.00 | 0.050 | mg/l | 1.00 | ND | 100 | 70-130 | 0.00 | 20 | |
| Zinc | 1.10 | 0.050 | mg/l | 1.00 | ND | 107 | 70-130 | 0.905 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150

Sampled: 09/11/01

Report Number:

PKI0159

Received: 09/11/01

- NEFTEROR BLANKSOF DATE

INORGANICS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------|-----------|-------|-------|-----------|-----------|------------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2028 Extracted: 09/20/0 | <u>1</u> | | | | | | | | | |
| Blank Analyzed: 09/21/01 (P1I2028-BI | .K1) | | | | | | | | | |
| Total Cyanide | ND | 0.020 | mg/l | | | | | | | |
| LCS Analyzed: 09/21/01 (P1I2028-BS1 |) | | | | | | | | | |
| Total Cyanide | 0.105 | 0.020 | mg/l | 0.100 | | 105 | 90-110 | | | |
| LCS Dup Analyzed: 09/21/01 (P1I2028 | -BSD1) | | | | | | | | | |
| Total Cyanide | 0.109 | 0.020 | mg/l | 0.100 | | 109 | 90-110 | 3.74 | 20 | |
| Matrix Spike Analyzed: 09/21/01 (P1I2 | 2028-MS1) | | | | Source: I | KI0170-1 | l 6 | | | |
| Total Cyanide | 0.0639 | 0.020 | mg/l | 0.100 | ND | 63.9 | 70-130 | | | M2 |
| Matrix Spike Dup Analyzed: 09/21/01 | (P1I2028-M | SD1) | | | Source: I | KI0170-1 | 16 | | | |
| Total Cyanide | 0.0570 | 0.020 | mg/l | 0.100 | ND | 57.0 | 70-130 | 11.4 | 20 | M2 |
| Batch: P1I2125 Extracted: 09/21/0 | <u>1</u> | | | | | | | | | |
| Blank Analyzed: 09/24/01 (P1I2125-BI | .K1) | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 09/24/01 (P112 | 2125-MS1) | | | | Source: I | PK10159-0 |)7 | | | |
| Total Cyanide | 2.64 | 0.62 | mg/kg | 2.50 | ND | 106 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/24/01 | (P1I2125-M | SD1) | | | Source: I | PK10159-0 | 07 | | | |
| Total Cyanide | 1.85 | 0.62 | mg/kg | 2.50 | ND | 74.0 | 70-130 | 35.2 | 20 | R1 |
| Reference Analyzed: 09/24/01 (P1I2125 | 5-SRM1) | | | | | | | | | |
| Total Cyanide | 167 | 20 | mg/kg | 201 | | 83.1 | 40-160 | | | |



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Law Engineering 4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150

Report Number:

PKI0159

Sampled: 09/11/01

Received: 09/11/01

METHOD BLANK (QCDATA)

INORGANICS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2125 Extracted: 09/21/01 | | | | | | | | | | |
| Reference Analyzed: 09/24/01 (P112125- | -SRM2) | | | | | | | | | |
| Total Cyanide | 128 | 20 | mg/kg | 201 | | 63.7 | 40-160 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-0150

Sampled: 09/11/01 Received: 09/11/01

Report Number:

PKI0159

METHOD BLANK/QC DATA

DATA QUALIFIERS AND DEFINITIONS

- B1 Target analyte detected in method blank at or above the method reporting limit.
- D1 Sample required dilution due to matrix interference. See case narrative.
- M1 Matrix spike recovery was high, the method control sample recovery was acceptable.
- Matrix spike recovery was low, the method control sample recovery was acceptable.
- N2 See corrective action report.
- R1 RPD exceeded the method control limit. See case narrative.
- R4 MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.
- R6 LFB/LFBD RPD exceeded the method control limit. Recovery met acceptance criteria.
- Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
- V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not reported.
- RPD Relative Percent Difference



2852 Alton Ave., Irvine, CA 92606 1014 E. Cooley Dr., Suite A, Colton, CA 92324 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123

9830 South 51st St., Suite B-120, Phoenix, AZ 85044

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689

(858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01

Received: 09/13/01 Issued: 10/12/01 Revised: 11/13/01

Report Number:

PKI0198

CASE NARRATIN

| LABORATORY SAMPLE NUMBER DESCRIPTION | SAMPLE MATRIX |
|--------------------------------------|------------------|
| PKI0198-03 LB6-S-30 | Soil |
| PKI0198-05 LB6-S-50 | Soil |
| PKI0198-07 LB6-S-10 | Soil |
| PKI0198-08 LB6-S-20 | Soil |
| PKI0198-09 LB6-S-30 | Soil |
| PKI0198-09RE6 LB6-S-30 | Soil |
| PKI0198-10 LB6-S-40 | Soil |
| PKI0198-10RE4 LB6-S-40 | Soil |
| PKI0198-11 LB6-S-50 | Soil |
| PKI0198-12 LB6-S-60 | Soil |
| PKI0198-12RE3 LB6-S-60 | Soil |

SAMPLE RECEIPT:

Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES:

Holding times were met.

PRESERVATION:

Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS:

Report was revised 11/13/01 to include that the samples were received at a temperature of 8 degrees C. The N1 flag on ICP Zinc indicates that the analyte was detected in the associated Method Blank. Analyte concentration in the sample is greater

than 10X the concentration found in the Method Blank.

SUBCONTRACTED:

No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA:

The N2 flag on Cyanide indicates that the Matrix Spike recovery was outside the method control limits. See Corrective

Action Report.

The R1 flag on Cyanide indicates that the RPD exceeded the method control limit. See Corrective Action Report.

EXPLANATION OF DATA

QUALIFIERS:

The D1 flag on ICP Arsenic indicates that the reporting limit was raised due to sample matrix effects.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Project Manager

PKI0198 Page 1 of 25

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CORRECTIVE ACTION REPORT

Department:

Wet Chemistry

Methods:

9014

Date:

09/27/2001

Matrix:

Soil

Batch:

P1I2701

Samples Affected:

PKI0198-09 - PKI0198-12 & PKI0355-01

Identification and Definition of Problem:

The Relative Percent Difference (RPD) between the Matrix Spike (MS) and the Matrix Spike Duplicate (MSD) was high (24%) and outside of the 20% acceptance limits.

Determination of the Cause of the Problem:

A definitive cause for the high RPD could not be determined.

Corrective Action:

Both the MS and the MSD recovered within acceptance limits. Also, the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) recovered within acceptance limits. The RPD between the LCS and the LCSD was also within acceptance limits, therefore the data should not be significantly impacted. The MSD has been flagged "R1" to indicate that the RPD was outside of acceptance limits.

Elizabeth C. Wueschner: Chyslett (... U uselne Date: 10/12/2001

Ouality Assurance Manager





CORRECTIVE ACTION REPORT

Department:

Wet Chemistry

Methods:

9014

Date:

09/25/2001

Matrix:

Soil

Batch:

P1I2412

Samples Affected:

PKI0198-07, PKI0198-08, PKI0168-01 - PKI0168-05 &

PKI0180-08 - PKI0180-14

Identification and Definition of Problem:

The Matrix Spike Duplicate (MSD) recovered high (131%) and outside of the 70-130% acceptance limits. Because of the high recovery in the MSD the Relative Percent Difference (RPD) between the Matrix Spike (MS) and the MSD was high (41.8%) and outside of the 20% acceptance limits.

Determination of the Cause of the Problem:

A definitive cause for the high recovery has not been determined.

Corrective Action:

The MS as well as the Laboratory Control Sample recovered within acceptance limits, thus validating the batch. The MSD has been flagged "N2" to indicate the low recovery and "R1" to indicate that the RPD was outside of acceptance limits.

whet C.W ussle Date: 10/13 /2001 Elizabeth C. Wueschner: Quality Assurance Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01 Received: 09/13/01

Report Number:

PKI0198

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | VOLATI | LE ONG | AMCSDI | GC/MS | (EI A 62 | oob) | | |
|-----------------------------|--------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
| Sample ID: PKI0198-03 (LB6- | S-30 - Soil) | | 5 5 | | | | | |
| Acetone | EPA 8260B | P111401 | 1000 | ND | 1 | 9/14/01 | 9/27/01 | |
| Benzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Bromobenzene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Bromochloromethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Bromodichloromethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Bromoform | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Bromomethane | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1401 | 500 | ND | 1 | 9/14/01 | 9/27/01 | |
| n-Butylbenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| tert-Butylbenzene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Carbon Disulfide | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Chlorobenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Chloroethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Chloroform | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Chloromethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 2-Chlorotoluene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 4-Chlorotoluene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Dibromochloromethane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | 4 |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Dibromomethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/0I | 9/27/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| I,2-Dichloropropane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 2,2-Dichloropropane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | V1 |
| 1,1-Dichloropropene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| - · | | | | | | | | |

Melissa Evans Project Manager PKI0198 Page 2 of 25



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01 Received: 09/13/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0198

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0198-03 (LB6- | S-30 - Soil) | | ug/kg | ug/kg | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Ethylbenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 2-Hexanone | EPA 8260B | P111401 | 500 | ND | 1 | 9/14/01 | 9/27/01 | |
| lodomethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Isopropylbenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| p-Isopropyltoluene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Methylene chloride | EPA 8260B | P111401 | 500 | ND | 1 | 9/14/01 | 9/27/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P111401 | 500 | ND | 1 | 9/14/01 | 9/27/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Naphthalene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| n-Propylbenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Styrene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Tetrachloroethene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Toluene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Trichloroethene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1401 | 500 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I1401 | 100 | . ND | 1 | 9/14/01 | 9/27/01 | |
| Vinyl acetate | EPA 8260B | P1I1401 | 1200 | ND | 1 | 9/14/01 | 9/27/01 | |
| Vinyl chloride | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Xylenes, Total | EPA 8260B | P111401 | 300 | ND | 1 | 9/14/01 | 9/27/01 | |
| Surrogate: Dibromofluoromethane (70-12 Surrogate: Toluene-d8 (50-135%) | 25%) | | | 101 % 110 % | | | | |
| Surrogata: A Promofesoushamera (70.12 | 00/1 | | | 03.3.0/ | | | | |

Surrogate: 4-Bromofluorobenzene (70-130%)

The reporting limit for this sample was adjusted by a factor of 0.952 to account for the applicable preparation factor.



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Law Engineering 4634 S. 36th Place

Client Project ID: 702

70211-0-0150-2-2.10

Sampled: 09/13/01 Received: 09/13/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number: PKI0198

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|-------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0198-05 (LB6-S | -50 - Soil) | | 0 0 | | | | | |
| Acetone | EPA 8260B | P1I1401 | 1000 | ND | 1 | 9/14/01 | 9/27/01 | |
| Benzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Bromobenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Bromochloromethane | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Bromodichloromethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Bromoform | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Bromomethane | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1401 | 500 | ND | 1 | 9/14/01 | 9/27/01 | |
| n-Butylbenzene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| sec-Butylbenzene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| tert-Butylbenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Carbon Disulfide | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Chlorobenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Chloroethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Chloroform | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Chloromethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 2-Chlorotoluene | EPA 8260B | P111401 | 250 | ND | 1 . | 9/14/01 | 9/27/01 | |
| 4-Chlorotoluene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Dibromochloromethane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Dibromomethane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1-Dichloroethene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2-Dichloropropane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,3-Dichloropropane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | V1 |
| 1,1-Dichloropropene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| , | | | | | | | | |

Melissa Evans Project Manager PKI0198 Page 4 of 25



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0198

Received: 09/13/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-------------|---------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0198-05 (LB6-S | 50 Cott | | ug/kg | ug/kg | | | | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Ethylbenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Hexachlorobutadiene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 2-Hexanone | EPA 8260B | P111401 | 500 | ND | 1 | 9/14/01 | 9/27/01 | |
| Iodomethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Isopropylbenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Methylene chloride | EPA 8260B | P111401 | 500 | ND | 1 | 9/14/01 | 9/27/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1401 | 500 | ND | 1 | 9/14/01 | 9/27/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Naphthalene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| n-Propylbenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Styrene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Tetrachloroethene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Toluene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1,1-TrichIoroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Trichloroethene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1401 | 500 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/27/01 | |
| Vinyl acetate | EPA 8260B | P1I1401 | 1200 | ND | 1 | 9/14/01 | 9/27/01 | |
| Vinyl chloride | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/27/01 | |
| Xylenes, Total | EPA 8260B | P1I1401 | 300 | ND | 1 | 9/14/01 | 9/27/01 | |
| Surrogate: Dibromofluoromethane (70-12. | 5%) | | | 97.5 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 112% | | | | |
| Surrogate: 4-Bromofluorobenzene (70-130 |)%) | | | 96.7 % | | | | |

The reporting limit for this sample was adjusted by a factor of 0.978 to account for the applicable preparation factor.

DEL MAR ANALYTICAL, PHOENIX (AZ0426

Melissa Evans Project Manager

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(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Report Number:

Sampled: 09/13/01

Received: 09/13/01

TOTAL METALS

PKI0198

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--------------------------------|----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0198-07 (LB6-S-1 | 10 - Soil) | | mg/kg | mg/ Kg | | | | |
| Arsenic | EPA 6010B | P1I2006 | 10 | ND | 2 | 9/20/01 | 9/25/01 | D1 |
| Chromium | EPA 6010B | P1I2006 | 1.0 | 22 | 1 | 9/20/01 | 9/21/01 | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P1I2006 | 2.0 | 21 | 1 | 9/20/01 | 9/21/01 | |
| Nickel | EPA 6010B | P1I2006 | 5.0 | 21 | 1 | 9/20/01 | 9/21/01 | |
| Zinc | EPA 6010B | P1I2006 | 5.0 | 66 | 1 | 9/20/01 | 9/21/01 | N1 |
| Sample ID: PKI0198-08 (LB6-S-2 | 20 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I2006 | 10 | ND | 2 | 9/20/01 | 9/25/01 | D1 |
| Chromium | EPA 6010B | P1I2006 | 1.0 | 22 | 1 | 9/20/01 | 9/21/01 | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P1I2006 | 2.0 | 21 | 1 | 9/20/01 | 9/21/01 | |
| Nickel | EPA 6010B | P1I2006 | 5.0 | 18 | 1 | 9/20/01 | 9/21/01 | |
| Zinc | EPA 6010B | P112006 | 5.0 | 56 | 1 | 9/20/01 | 9/21/01 | N1 |
| Sample ID: PKI0198-09 (LB6-S-3 | 30 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I2006 | 5.0 | ND | 1 | 9/20/01 | 9/24/01 | |
| Chromium | EPA 6010B | P112006 | 1.0 | 16 | 1 | 9/20/01 | 9/21/01 | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P1I2006 | 2.0 | 14 | 1 | 9/20/01 | 9/21/01 | |
| Nickel | EPA 6010B | P112006 | 5.0 | 12 | 1 | 9/20/01 | 9/21/01 | |
| Sample ID: PKI0198-09RE6 (LB | 6-S-30 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1J1010 | 5.0 | 63 | 1 | 10/10/01 | 10/11/01 | N1 |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040 Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01

Attention: Jim Clarke

Report Number:

PKI0198

Received: 09/13/01

TOTAL METALS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|-----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0198-10 (LB6-S | , | | | | | | | |
| Arsenic | EPA 6010B | P1I2006 | 5.0 | ND | 1 | 9/20/01 | 9/24/01 | |
| Chromium | EPA 6010B | P1I2006 | 1.0 | 23 | 1 | 9/20/01 | 9/21/01 | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P1I2006 | 2.0 | 16 | 1 | 9/20/01 | 9/21/01 | |
| Nickel | EPA 6010B | P1I2006 | 5.0 | 16 | 1 | 9/20/01 | 9/21/01 | |
| Sample ID: PKI0198-10RE4 (L | B6-S-40 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1J0507 | 5.0 | 5 6 | 1 | 10/5/01 | 10/7/01 | N1 |
| Sample ID: PKI0198-11 (LB6-S | 5-50 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P111911 | 5.0 | ND | 1 | 9/19/01 | 9/20/01 | |
| Chromium | EPA 6010B | P111911 | 1.0 | 25 | 1 | 9/19/01 | 9/20/01 | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P111911 | 2.0 | 13 | 1 | 9/19/01 | 9/20/01 | |
| Nickel | EPA 6010B | P111911 | 5.0 | 13 | 1 | 9/19/01 | 9/20/01 | |
| Zinc | EPA 6010B | P111911 | 5.0 | 46 | 1 | 9/19/01 | 9/20/01 | N1 |
| Sample ID: PKI0198-12 (LB6-S | 5-60 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P111911 | 5.0 | ND | 1 | 9/19/01 | 9/20/01 | |
| Chromium | EPA 6010B | P111911 | 1.0 | 14 | 1 | 9/19/01 | 9/20/01 | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P1I1911 | 2.0 | 7.5 | 1 | 9/19/01 | 9/20/01 | |
| Nickel | EPA 6010B | P111911 | 5.0 | 9.5 | 1 | 9/19/01 | 9/20/01 | |
| Sample ID: PKI0198-12RE3 (L | B6-S-60 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1J0103 | 5.0 | 26 | 1 | 10/1/01 | 10/2/01 | |

DEL MAR ANALYTICAL, PHOENIX (AZ0426



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01

Attention: Jim Clarke

Report Number:

PKI0198

Received: 09/13/01

INORGANICS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|------------------------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0198-07 (LB6-S-10 | - Soil) | | | | | | | |
| Total Cyanide | EPA 9014 | P1I2412 | 0.50 | ND | 1 | 9/24/01 | 9/25/01 | |
| Sample ID: PKI0198-08 (LB6-S-20 Total Cyanide | - Soil) EPA 9014 | P1I2412 | 0.50 | ND | 1 | 9/24/01 | 9/25/01 | |
| Sample ID: PKI0198-09 (LB6-S-30 Total Cyanide |) - Soil) EPA 9014 | P1I2701 | 0.50 | ND | 1 | 9/27/01 | 9/27/01 | |
| Sample ID: PKI0198-10 (LB6-S-40 Total Cyanide |) - Soil) EPA 9014 | P1I2701 | 0.50 | ND | 1 | 9/27/01 | 9/27/01 | |
| Sample ID: PKI0198-11 (LB6-S-50 Total Cyanide |) - Soil) EPA 9014 | P112701 | 0.50 | ND | 1 | 9/27/01 | 9/27/01 | |
| Sample ID: PKI0198-12 (LB6-S-60 Total Cyanide |) - Soil) EPA 9014 | P112701 | 0.50 | ND | 1 | 9/27/01 | 9/27/01 | |



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-0150-2-2.10

Sampled: 09/13/01

Received: 09/13/01

PKI0198

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------|-------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: | 09/14/01 | | | | | | | | | |
| Blank Analyzed: 09/19/01 (P1 | I1401-BLK1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | | | | | | | |
| Benzene | ND | 100 | ug/kg | | | | | | | |
| Bromobenzene | ND | 250 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 250 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 100 | ug/kg | | | | | | | |
| Bromoform | ND | 250 | ug/kg | | | | | | | |
| Bromomethane | ND | 250 | ug/kg | | | | | | | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| Carbon Disulfide | ND | 250 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 250 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Chloroethane | ND | 250 | ug/kg | | | | | | | |
| Chloroform | ND | 100 | ug/kg | | | | | | | |
| Chloromethane | ND | 250 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 100 | ug/kg | | | | | | | |
| Dibromomethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,4-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Dichlorodifluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 100 | ug/kg | | | | | • | | |
| 1,2-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 250 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

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70211-0-0150-2-2.10

Sampled: 09/13/01

Report Number:

PKI0198

Received: 09/13/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/0 | <u>)1</u> | | | | | | | | | |
| Blank Analyzed: 09/19/01 (P1I1401-B | LK1) | | | | | | | | | |
| 1,1-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 250 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 500 | ug/kg | | | | | | | |
| lodomethane | ND | 100 | ug/kg | | | | | | | |
| lsopropylbenzene | ND | 100 | ug/kg | | | | | | | |
| p-lsopropyltoluene | ND | 100 | ug/kg | | | | | | | |
| Methylene chloride | ND | 500 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone (M1BK) | ND | 500 | ug/kg | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | | | | |
| Naphthalene | ND | 250 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 100 | ug/kg | | | | | | | |
| Styrene | ND | 100 | ug/kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 100 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 100 | ug/kg | | | | | | | |
| Toluene | ND | 100 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| Trichloroethene | ND | 100 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Vinyl acetate | ND | 1200 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 250 | ug/kg | | | | | | | |
| Xylenes, Total | ND | 300 | ug/kg | | | | | | | |
| Surrogate: Dibromofluoromethane | 146 | | ug/kg | 125 | | 117 | 70-125 | | | |
| Surrogate: Toluene-d8 | 168 | | ug/kg | 125 | | 134 | 50-135 | | | ~· |
| Surrogate: 4-Bromofluorobenzene | 164 | | ug/kg | 125 | | 131 | 70-130 | | | S4 |

Melissa Evans Project Manager

PKI0198 Page 10 of 25



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Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Report Number:

PKI0198

Sampled: 09/13/01

Received: 09/13/01

METHOD BLANK OF DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/0 | <u>1</u> | | | | | | | | | |
| LCS Analyzed: 09/19/01 (P1I1401-BS1 |) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 96.7 | 5-200 | | | |
| Benzene | 931 | 100 | ug/kg | 1000 | | 93.1 | 65-130 | | | |
| Bromobenzene | 1120 | 250 | ug/kg | 1000 | | 112 | 60-135 | | | |
| Bromochloromethane | 1120 | 250 | ug/kg | 1000 | | 112 | 60-135 | | | |
| Bromodichloromethane | 936 | 100 | ug/kg | 1000 | | 93.6 | 30-135 | | | |
| Bromoform | 880 | 250 | ug/kg | 1000 | | 88.0 | 60-140 | | | |
| Bromomethane | 1250 | 250 | ug/kg | 2000 | | 62.5 | 10-200 | | | |
| 2-Butanone (MEK) | 1030 | 500 | ug/kg | 1000 | | 103 | 10-160 | | | |
| n-Butylbenzene | 935 | 250 | ug/kg | 1000 | | 93.5 | 65-125 | | | |
| sec-Butylbenzene | 985 | 250 | ug/kg | 1000 | | 98.5 | 70-135 | | | |
| tert-Butylbenzene | 1010 | 250 | ug/kg | 1000 | | 101 | 70-130 | | | |
| Carbon Disulfide | 738 | 250 | ug/kg | 1000 | | 73.8 | 20-120 | | | |
| Carbon tetrachloride | 899 | 250 | ug/kg | 1000 | | 89.9 | 70-140 | | | |
| Chlorobenzene | 1090 | 100 | ug/kg | 1000 | | 109 | 70-125 | | | |
| Chloroethane | 1190 | 250 | ug/kg | 2000 | | 59.5 | 10-200 | | | |
| Chloroform | 994 | 100 | ug/kg | 1000 | | 99.4 | 35-135 | | | |
| Chloromethane | 1480 | 250 | ug/kg | 2000 | | 74.0 | 10-200 | | | |
| 2-Chlorotoluene | 997 | 250 | ug/kg | 1000 | | 99.7 | 70-135 | | | |
| 4-Chlorotoluene | 998 | 250 | ug/kg | 1000 | | 99.8 | 75-135 | | | |
| Dibromochloromethane | 974 | 100 | ug/kg | 1000 | | 97.4 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 1040 | 250 | ug/kg | 1000 | | 104 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 1110 | 100 | ug/kg | 1000 | | 111 | 70-130 | | | |
| Dibromomethane | 1090 | 100 | ug/kg | 1000 | | 109 | 65-130 | | | |
| 1,2-Dichlorobenzene | 1050 | 100 | ug/kg | 1000 | | 105 | 70-125 | | | |
| 1,3-Dichlorobenzene | 1050 | 100 | ug/kg | 1000 | | 105 | 70-125 | | | |
| 1,4-Dichlorobenzene | 1090 | 100 | ug/kg | 1000 | | 109 | 70-135 | | | |
| Dichlorodifluoromethane | 1330 | 250 | ug/kg | 2000 | | 66.5 | 10-185 | | | |
| 1,1-Dichloroethane | 966 | 100 | ug/kg | 1000 | | 96.6 | 60-140 | | | |
| 1,2-Dichloroethane | 1020 | 100 | ug/kg | 1000 | | 102 | 55-135 | | | |
| 1,1-Dichloroethene | 987 | 250 | ug/kg | 1000 | | 98.7 | 55-145 | | | |
| cis-1,2-Dichloroethene | 1010 | 100 | ug/kg | 1000 | | 101 | 60-125 | | | |
| trans-1,2-Dichloroethene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-145 | | | |
| 1,2-Dichloropropane | 956 | 100 | ug/kg | 1000 | | 95.6 | 65-130 | | | |
| 1,3-Dichloropropane | 1060 | 100 | ug/kg | 1000 | | 106 | 65-130 | | | |
| 2,2-Dichloropropane | 677 | 100 | ug/kg | 1000 | | 67.7 | 60-135 | | | |
| 1,1-Dichloropropene | 929 | 100 | ug/kg | 1000 | | 92.9 | 65-130 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01

Report Number:

PKI0198

Received: 09/13/01

ATECTA (DE) ISHTAN KAQOO DIATTA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|----------|-----------|-------|-------|--------|------|---------------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/01 | <u>L</u> | | | | | | | | | |
| LCS Analyzed: 09/19/01 (P1I1401-BS1) |) | | | | | | • | | | |
| cis-1,3-Dichloropropene | 885 | 100 | ug/kg | 1000 | | 88.5 | 60-125 | | | |
| trans-1,3-Dichloropropene | 882 | 100 | ug/kg | 1000 | | 88.2 | 50-130 | | | |
| Ethylbenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-125 | | | |
| Hexachlorobutadiene | 1030 | 250 | ug/kg | 1000 | | 103 | 60-125 | | | |
| 2-Hexanone | 1110 | 500 | ug/kg | 1000 | | 111 | 25-185 | | | |
| Iodomethane | 1150 | 100 | ug/kg | 1000 | | 115 | 30-155 | | | |
| Isopropylbenzene | 1070 | 100 | ug/kg | 1000 | | 107 | 70-135 | | | |
| p-Isopropyltoluene | 967 | 100 | ug/kg | 1000 | | 96.7 | 65-130 | | | |
| Methylene chloride | 979 | 500 | ug/kg | 1000 | | 97.9 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 1170 | 500 | ug/kg | 1000 | | 117 | 10-175 | | | |
| Naphthalene | 1210 | 250 | ug/kg | 1000 | | 121 | 45-155 | | | |
| n-Propylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 75-135 | | | |
| Styrene | 1070 | 100 | ug/kg | 1000 | | 107 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 1020 | 250 | ug/kg | 1000 | | 102 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 1060 | 100 | ug/kg | 1000 | | 106 | 60-140 | | | |
| Tetrachloroethene | 1120 | 100 | ug/kg | 1000 | | 112 | 65-130 | | | |
| Toluene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 1080 | 250 | ug/kg | 1000 | | 108 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 1070 | 250 | ug/kg | 1000 | | 107 | 55-135 | | | |
| 1,1,1-Trichloroethane | 953 | 100 | ug/kg | 1000 | | 95.3 | 65-135 | | | |
| 1,1,2-Trichloroethane | 1070 | 100 | ug/kg | 1000 | | 107 | 65-130 | | | |
| Trichloroethene | 1030 | 100 | ug/kg | 1000 | | 103 | 70-130 | | | |
| Trichlorofluoromethane | 1140 | 250 | ug/kg | 2000 | | 57.0 | 10-200 | | | |
| 1,2,3-Trichloropropane | 1110 | 500 | ug/kg | 1000 | | 111 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 1040 | 100 | ug/kg | 1000 | | 104 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 66.4 | 25-130 | | | |
| Vinyl chloride | 938 | 250 | ug/kg | 2000 | | 46.9 | 10-200 | | | |
| Xylenes, Total | 3210 | 300 | ug/kg | 3000 | | 107 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 149 | | ug/kg | 125 | | 119 | 70-125 | | | |
| Surrogate: Toluene-d8 | 166 | | ug/kg | 125 | | 133 | <i>50-135</i> | | | |
| Surrogate: 4-Bromofluorobenzene | 158 | | ug/kg | 125 | | 126 | 70-130 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

1211-0-0130-2-2.10

Report Number: PKI0198

Sampled: 09/13/01

Received: 09/13/01

NETHOD BLANKQUODATA.

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/0 | <u>01</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/19/01 (P1I140 | 1-BSD1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 68.5 | 5-200 | 34.1 | 35 | |
| Benzene | 904 | 100 | ug/kg | 1000 | | 90.4 | 65-130 | 2.94 | 35 | |
| Bromobenzene | 1040 | 250 | ug/kg | 1000 | | 104 | 60-135 | 7.41 | 35 | |
| Bromochloromethane | 1050 | 250 | ug/kg | 1000 | | 105 | 60-135 | 6.45 | 35 | |
| Bromodichloromethane | 919 | 100 | ug/kg | 1000 | | 91.9 | 30-135 | 1.83 | 35 | |
| Bromoform | 946 | 250 | ug/kg | 1000 | | 94.6 | 60-140 | 7.23 | 35 | |
| Bromomethane | 903 | 250 | ug/kg | 2000 | | 45.2 | 10-200 | 32.2 | 35 | |
| 2-Butanone (MEK) | 835 | 500 | ug/kg | 1000 | | 83.5 | 10-160 | 20.9 | 35 | |
| n-Butylbenzene | 829 | 250 | ug/kg | 1000 | | 82.9 | 65-125 | 12.0 | 35 | |
| sec-Butylbenzene | 891 | 250 | ug/kg | 1000 | | 89.1 | 70-135 | 10.0 | 35 | |
| tert-Butylbenzene | 933 | 250 | ug/kg | 1000 | | 93.3 | 70-130 | 7.93 | 35 | |
| Carbon Disulfide | 647 | 250 | ug/kg | 1000 | | 64.7 | 20-120 | 13.1 | 35 | |
| Carbon tetrachloride | 908 | 250 | ug/kg | 1000 | | 90.8 | 70-140 | 0.996 | 35 | |
| Chlorobenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-125 | 2.79 | 35 | |
| Chloroethane | 944 | 250 | ug/kg | 2000 | | 47.2 | 10-200 | 23.1 | 35 | |
| Chloroform | 970 | 100 | ug/kg | 1000 | | 97.0 | 35-135 | 2.44 | 35 | |
| Chloromethane | 1030 | 250 | ug/kg | 2000 | | 51.5 | 10-200 | 35.9 | 35 | R6 |
| 2-Chlorotoluene | 936 | 250 | ug/kg | 1000 | | 93.6 | 70-135 | 6.31 | 35 | |
| 4-Chlorotoluene | 941 | 250 | ug/kg | 1000 | | 94.1 | 75-135 | 5.88 | 35 | |
| Dibromochloromethane | 1030 | 100 | ug/kg | 1000 | | 103 | 35-135 | 5.59 | 35 | |
| 1,2-Dibromo-3-chloropropane | 881 | 250 | ug/kg | 1000 | | 88.1 | 50-155 | 16.6 | 35 | |
| 1,2-Dibromoethane (EDB) | 1080 | 100 | ug/kg | 1000 | | 108 | 70-130 | 2.74 | 35 | |
| Dibromomethane | 1010 | 100 | ug/kg | 1000 | | 101 | 65-130 | 7.62 | 35 | |
| 1,2-Dichlorobenzene | 976 | 100 | ug/kg | 1000 | | 97.6 | 70-125 | 7.31 | 35 | |
| 1,3-Dichlorobenzene | 973 | 100 | ug/kg | 1000 | | 97.3 | 70-125 | 7.61 | 35 | |
| 1,4-Dichlorobenzene | 1020 | 100 | ug/kg | 1000 | | 102 | 70-135 | 6.64 | 35 | |
| Dichlorodifluoromethane | 736 | 250 | ug/kg | 2000 | | 36.8 | 10-185 | 57.5 | 35 | R6 |
| 1,1-Dichloroethane | 926 | 100 | ug/kg | 1000 | | 92.6 | 60-140 | 4.23 | 35 | |
| 1,2-Dichloroethane | 983 | 100 | ug/kg | 1000 | | 98.3 | 55-135 | 3.69 | 35 | |
| 1,1-Dichloroethene | 912 | 250 | ug/kg | 1000 | | 91.2 | 55-145 | 7.90 | 35 | |
| cis-1,2-Dichloroethene | 974 | 100 | ug/kg | 1000 | | 97.4 | 60-125 | 3.63 | 35 | • |
| trans-1,2-Dichloroethene | 966 | 100 | ug/kg | 1000 | | 96.6 | 70-145 | 4.45 | 35 | |
| 1,2-Dichloropropane | 911 | 100 | ug/kg | 1000 | | 91.1 | 65-130 | 4.82 | 35 | |
| 1,3-Dichloropropane | 1020 | 100 | ug/kg | 1000 | | 102 | 65-130 | 3.85 | 35 | |
| 2,2-Dichloropropane | 765 | 100 | ug/kg | 1000 | | 76.5 | 60-135 | 12.2 | 35 | |
| 1,1-Dichloropropene | 886 | 100 | ug/kg | 1000 | | 88.6 | 65-130 | 4.74 | 35 | |
| | | | | | | | | | | |

Melissa Evans Project Manager

PKI0198 Page 13 of 25



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01

Report Number: PKI0198

Received: 09/13/01

METHOD BLANKOC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/0 | <u>)1</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/19/01 (P1I140 | 1-BSD1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 889 | 100 | ug/kg | 1000 | | 88.9 | 60-125 | 0.451 | 35 | |
| trans-1,3-Dichloropropene | 896 | 100 | ug/kg | 1000 | | 89.6 | 50-130 | 1.57 | 35 | |
| Ethylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-125 | 4.83 | 35 | |
| Hexachlorobutadiene | 849 | 250 | ug/kg | 1000 | | 84.9 | 60-125 | 19.3 | 35 | |
| 2-Hexanone | 981 | 500 | ug/kg | 1000 | | 98.1 | 25-185 | 12.3 | 35 | |
| Iodomethane | 1040 | 100 | ug/kg | 1000 | | 104 | 30-155 | 10.0 | 35 | |
| Isopropylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-135 | 5.77 | 35 | |
| p-Isopropyltoluene | 884 | 100 | ug/kg | 1000 | | 88.4 | 65-130 | 8.97 | 35 | |
| Methylene chloride | 942 | 500 | ug/kg | 1000 | | 94.2 | 60-140 | 3.85 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 1020 | 500 | ug/kg | 1000 | | 102 | 10-175 | 13.7 | 35 | |
| Naphthalene | 922 | 250 | ug/kg | 1000 | | 92.2 | 45-155 | 27.0 | 35 | |
| n-Propylbenzene | 937 | 100 | ug/kg | 1000 | | 93.7 | 75-135 | 7.50 | 35 | |
| Styrene | 1050 | 100 | ug/kg | 1000 | | 105 | 70-130 | 1.89 | 35 | |
| 1,1,1,2-Tetrachloroethane | 1040 | 250 | ug/kg | 1000 | | 104 | 70-130 | 1.94 | 35 | |
| 1,1,2,2-Tetrachloroethane | 1010 | 100 | ug/kg | 1000 | | 101 | 60-140 | 4.83 | 35 | |
| Tetrachloroethene | 1080 | 100 | ug/kg | 1000 | | 108 | 65-130 | 3.64 | 35 | |
| Toluene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-125 | 2.93 | 35 | |
| 1,2,3-Trichlorobenzene | 872 | 250 | ug/kg | 1000 | | 87.2 | 60-135 | 21.3 | 35 | |
| 1,2,4-Trichlorobenzene | 899 | 250 | ug/kg | 1000 | | 89.9 | 55-135 | 17.4 | 35 | |
| 1,1,1-Trichloroethane | 934 | 100 | ug/kg | 1000 | | 93.4 | 65-135 | 2.01 | 35 | |
| 1,1,2-Trichloroethane | 1040 | 100 | ug/kg | 1000 | | 104 | 65-130 | 2.84 | 35 | |
| Trichloroethene | 971 | 100 | ug/kg | 1000 | | 97.1 | 70-130 | 5.90 | 35 | |
| Trichlorofluoromethane | 1080 | 250 | ug/kg | 2000 | | 54.0 | 10-200 | 5.41 | 35 | |
| 1,2,3-Trichloropropane | 982 | 500 | ug/kg | 1000 | | 98.2 | 60-150 | 12.2 | 35 | |
| 1,2,4-Trimethylbenzene | 972 | 100 | ug/kg | 1000 | | 97.2 | 75-130 | 6.76 | 35 | |
| 1,3,5-Trimethylbenzene | 928 | 100 | ug/kg | 1000 | | 92.8 | 70-130 | 8.46 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 76.3 | 25-130 | 13.9 | 35 | |
| Vinyl chloride | 869 | 250 | ug/kg | 2000 | | 43.4 | 10-200 | 7.64 | 35 | |
| Xylenes, Total | 3090 | 300 | ug/kg | 3000 | | 103 | 70-130 | 3.81 | 35 | |
| Surrogate: Dibromofluoromethane | 138 | | ug/kg | 125 | | 110 | 70-125 | | | |
| Surrogate: Toluene-d8 | 152 | | ug/kg | 125 | | 122 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 152 | | ug/kg | 125 | | 122 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0198

Received: 09/13/01

NETHODISE NEKOODADA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------|---------------------|-----------|-------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09 | /14/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/20/01 | (P111401-MS1) | | | | Source: F | KI0199-0 |)1 | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | ND | 75.8 | 5-200 | | | |
| Benzene | 956 | 100 | ug/kg | 1000 | ND | 95.6 | 65-130 | | | |
| Bromobenzene | 980 | 250 | ug/kg | 1000 | ND | 98.0 | 60-135 | | | |
| Bromochloromethane | 1090 | 250 | ug/kg | 1000 | ND | 109 | 60-135 | | | |
| Bromodichloromethane | 1010 | 100 | ug/kg | 1000 | ND | 101 | 30-135 | | | |
| Bromoform | 8 7 7 | 250 | ug/kg | 1000 | ND | 87.7 | 60-140 | | | |
| Bromomethane | 1640 | 250 | ug/kg | 2000 | ND | 82.0 | 10-200 | | | |
| 2-Butanone (MEK) | 806 | 500 | ug/kg | 1000 | ND | 80.6 | 10-160 | | | |
| n-Butylbenzene | 1010 | 250 | ug/kg | 1000 | ND | 101 | 65-125 | | | |
| sec-Butylbenzene | 960 | 250 | ug/kg | 1000 | ND | 96.0 | 70-135 | | | |
| tert-Butylbenzene | 932 | 250 | ug/kg | 1000 | ND | 93.2 | 70-130 | | | |
| Carbon Disulfide | 553 | 250 | ug/kg | 1000 | ND | 55.3 | 20-120 | | | |
| Carbon tetrachloride | 1120 | 250 | ug/kg | 1000 | ND | 112 | 70-140 | | | |
| Chlorobenzene | 1050 | 100 | ug/kg | 1000 | ND | 105 | 75-125 | | | |
| Chloroethane | 1440 | 250 | ug/kg | 2000 | ND | 72.0 | 10-200 | | | |
| Chloroform | 1040 | 100 | ug/kg | 1000 | ND | 104 | 35-135 | | | |
| Chloromethane | 1270 | 250 | ug/kg | 2000 | ND | 63.5 | 10-200 | | | |
| 2-Chlorotoluene | 891 | 250 | ug/kg | 1000 | ND | 89.1 | 70-135 | | | |
| 4-Chlorotoluene | 897 | 250 | ug/kg | 1000 | ND | 89.7 | 75-135 | | | |
| Dibromochloromethane | 969 | 100 | ug/kg | 1000 | ND | 96.9 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 576 | 250 | ug/kg | 1000 | ND | 57.6 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 866 | 100 | ug/kg | 1000 | ND | 86.6 | 70-130 | | | |
| Dibromomethane | 1000 | 100 | ug/kg | 1000 | ND | 100 | 65-130 | | | |
| 1,2-Dichlorobenzene | 960 | 100 | ug/kg | 1000 | ND | 96.0 | 70-125 | | | |
| 1,3-Dichlorobenzene | 969 | 100 | ug/kg | 1000 | ND | 96.9 | 70-125 | | | |
| 1,4-Dichlorobenzene | 1010 | 100 | ug/kg | 1000 | ND | 101 | 70-135 | | | |
| Dichlorodifluoromethane | 972 | 250 | ug/kg | 2000 | ND | 48.6 | 10-185 | | | |
| 1,1-Dichloroethane | 991 | 100 | ug/kg | 1000 | ND | 99.1 | 60-140 | | | |
| 1,2-Dichloroethane | 950 | 100 | ug/kg | 1000 | ND | 95.0 | 55-135 | | | |
| 1,1-Dichloroethene | 651 | 250 | ug/kg | 1000 | ND | 65.1 | 55-145 | | | |
| cis-1,2-Dichloroethene | 1020 | 100 | ug/kg | 1000 | ND | 102 | 60-125 | | | |
| trans-1,2-Dichloroethene | 1040 | 100 | ug/kg | 1000 | ND | 104 | 70-145 | | | |
| 1,2-Dichloropropane | 941 | 100 | ug/kg | 1000 | ND | 94.1 | 65-130 | | | |
| 1,3-Dichloropropane | 841 | 100 | ug/kg | 1000 | ND | 84.1 | 65-130 | • | | |
| 2,2-Dichloropropane | 1140 | 100 | ug/kg | 1000 | ND | 114 | 60-135 | | | |
| 1,1-Dichloropropene | 928 | 100 | ug/kg | 1000 | ND | 92.8 | 65-130 | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

10

Report Number: I

PKI0198

Sampled: 09/13/01

Received: 09/13/01

MEDHOD BEANKIOCDALA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-------------|-----------|-------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14 | <u>//01</u> | | | | | | | | | |
| Matrix Spike Analyzed: 09/20/01 (P | 111401-MS1) | | | | Source: F | K10199-0 | 1 | | | |
| cis-1,3-Dichloropropene | 943 | 100 | ug/kg | 1000 | ND | 94.3 | 60-125 | | | |
| trans-1,3-Dichloropropene | 795 | 100 | ug/kg | 1000 | ND | 79.5 | 50-130 | | | |
| Ethylbenzene | 1020 | 100 | ug/kg | 1000 | ND | 102 | 70-125 | | | |
| Hexachlorobutadiene | 1380 | 250 | ug/kg | 1000 | ND | 138 | 60-125 | | | M1 |
| 2-Hexanone | 785 | 500 | ug/kg | 1000 | ND | 78.5 | 25-185 | | | |
| Iodomethane | 710 | 100 | ug/kg | 1000 | ND | 71.0 | 30-155 | | | |
| Isopropylbenzene | 1080 | 100 | ug/kg | 1000 | ND | 108 | 70-135 | | | |
| p-Isopropyltoluene | 975 | 100 | ug/kg | 1000 | ND | 97.5 | 65-130 | | | |
| Methylene chloride | 659 | 500 | ug/kg | 1000 | ND | 65.9 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 734 | 500 | ug/kg | 1000 | ND | 73.4 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | ND | | 55-135 | | | |
| Naphthalene | 710 | 250 | ug/kg | 1000 | ND | 71.0 | 45-155 | | | |
| n-Propylbenzene | 902 | 100 | ug/kg | 1000 | ND | 90.2 | 75-135 | | | |
| Styrene | 1030 | 100 | ug/kg | 1000 | ND | 103 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 1120 | 250 | ug/kg | 1000 | ND | 112 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 597 | 100 | ug/kg | 1000 | ND | 59.7 | 60-140 | | | |
| Tetrachloroethene | 1030 | 100 | ug/kg | 1000 | ND | 103 | 65-130 | | | |
| Toluene | 952 | 100 | ug/kg | 1000 | ND | 95.2 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 809 | 250 | ug/kg | 1000 | ND | 80.9 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 898 | 250 | ug/kg | 1000 | ND | 89.8 | 55-135 | | | |
| 1,1,1-Trichloroethane | 1110 | 100 | ug/kg | 1000 | ND | 111 | 65-135 | | | |
| 1,1,2-Trichloroethane | 885 | 100 | ug/kg | 1000 | ND | 88.5 | 65-130 | | | |
| Trichloroethene | 1170 | 100 | ug/kg | 1000 | ND | 117 | 70-130 | | | |
| Trichlorofluoromethane | 1860 | 250 | ug/kg | 2000 | ND | 93.0 | 10-200 | | | |
| 1,2,3-Trichloropropane | 692 | 500 | ug/kg | 1000 | ND | 69.2 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 955 | 100 | ug/kg | 1000 | ND | 95.5 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 908 | 100 | ug/kg | 1000 | ND | 90.8 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | 24.7 | 25-130 | | | |
| Vinyl chloride | 2000 | 250 | ug/kg | 2000 | ND | 100 | 10-200 | | | |
| Xylenes, Total | 3110 | 300 | ug/kg | 3000 | ND | 104 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 137 | | ug/kg | 125 | | 110 | 70-125 | | | |
| Surrogate: Toluene-d8 | 137 | | ug/kg | 125 | | 110 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 135 | | ug/kg | 125 | | 108 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: 70211-0-0150-2-2.10

Sampled: 09/13/01 Received: 09/13/01

Attention: Jim Clarke

Report Number: P

PKI0198

METHOD BLANK/OC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|----------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/1 | 4/01 | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/20/ | 01 (P1I1401-MS | SD1) | | | Source: F | KI0199-(|)1 | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | ND | 66.5 | 5-200 | 13.1 | 35 | |
| Benzene | 952 | 100 | ug/kg | 1000 | ND | 95.2 | 65-130 | 0.419 | 35 | |
| Bromobenzene | 1030 | 250 | ug/kg | 1000 | ND | 103 | 60-135 | 4.98 | 35 | |
| Bromochloromethane | 1070 | 250 | ug/kg | 1000 | ND | 107 | 60-135 | 1.85 | 35 | |
| Bromodichloromethane | 1040 | 100 | ug/kg | 1000 | ND | 104 | 30-135 | 2.93 | 35 | |
| Bromoform | 878 | 250 | ug/kg | 1000 | ND | 87.8 | 60-140 | 0.114 | 35 | |
| Bromomethane | 1250 | 250 | ug/kg | 2000 | ND | 62.5 | 10-200 | 27.0 | 35 | |
| 2-Butanone (MEK) | 753 | 500 | ug/kg | 1000 | ND | 75.3 | 10-160 | 6.80 | 35 | |
| n-Butylbenzene | 982 | 250 | ug/kg | 1000 | ND | 98.2 | 65-125 | 2.81 | 35 | |
| sec-Butylbenzene | 969 | 250 | ug/kg | 1000 | ND | 96.9 | 70-135 | 0.933 | 35 | |
| tert-Butylbenzene | 955 | 250 | ug/kg | 1000 | ND | 95.5 | 70-130 | 2.44 | 35 | |
| Carbon Disulfide | 843 | 250 | ug/kg | 1000 | ND | 84.3 | 20-120 | 41.5 | 35 | R4 |
| Carbon tetrachloride | 1110 | 250 | ug/kg | 1000 | ND | 111 | 70-140 | 0.897 | 35 | |
| Chlorobenzene | 1070 | 100 | ug/kg | 1000 | ND | 107 | 75-125 | 1.89 | 35 | |
| Chloroethane | 1140 | 250 | ug/kg | 2000 | ND | 57.0 | 10-200 | 23.3 | 35 | |
| Chloroform | 1060 | 100 | ug/kg | 1000 | ND | 106 | 35-135 | 1.90 | 35 | |
| Chloromethane | 1120 | 250 | ug/kg | 2000 | ND | 56.0 | 10-200 | 12.6 | 35 | |
| 2-Chlorotoluene | 917 | 250 | ug/kg | 1000 | ND | 91.7 | 70-135 | 2.88 | 35 | |
| 4-Chlorotoluene | 923 | 250 | ug/kg | 1000 | ND | 92.3 | 75-135 | 2.86 | 35 | |
| Dibromochloromethane | 974 | 100 | ug/kg | 1000 | ND | 97.4 | 35-135 | 0.515 | 35 | |
| 1,2-Dibromo-3-chloropropane | 605 | 250 | ug/kg | 1000 | ND | 60.5 | 50-155 | 4.91 | 35 | |
| 1,2-Dibromoethane (EDB) | 903 | 100 | ug/kg | 1000 | ND | 90.3 | 70-130 | 4.18 | 35 | |
| Dibromomethane | 984 | 100 | ug/kg | 1000 | ND | 98.4 | 65-130 | 1.61 | 35 | |
| 1,2-Dichlorobenzene | 943 | 100 | ug/kg | 1000 | ND | 94.3 | 70-125 | 1.79 | 35 | |
| 1,3-Dichlorobenzene | 959 | 100 | ug/kg | 1000 | ND | 95.9 | 70-125 | 1.04 | 35 | |
| 1,4-Dichlorobenzene | 983 | 100 | ug/kg | 1000 | ND | 98.3 | 70-135 | 2.71 | 35 | |
| Dichlorodifluoromethane | 968 | 250 | ug/kg | 2000 | ND | 48.4 | 10-185 | 0.412 | 35 | |
| 1,1-Dichloroethane | 1040 | 100 | ug/kg | 1000 | ND | 104 | 60-140 | 4.83 | 35 | |
| 1,2-Dichloroethane | 966 | 100 | ug/kg | 1000 | ND | 96.6 | 55-135 | 1.67 | 35 | |
| 1,1-Dichloroethene | 7 57 | 250 | ug/kg | 1000 | ND | 75.7 | 55-145 | 15.1 | 35 | |
| cis-1,2-Dichloroethene | 1030 | 100 | ug/kg | 1000 | ND | 103 | 60-125 | 0.976 | 35 | |
| trans-1,2-Dichloroethene | 1100 | 100 | ug/kg | 1000 | ND | 110 | 70-145 | 5.61 | 35 | |
| 1,2-Dichloropropane | 942 | 100 | ug/kg | 1000 | ND | 94.2 | 65-130 | 0.106 | 35 | |
| 1,3-Dichloropropane | 861 | 100 | ug/kg | 1000 | ND | 86.1 | 65-130 | 2.35 | 35 | |
| 2,2-Dichloropropane | 1090 | 100 | ug/kg | 1000 | ND | 109 | 60-135 | 4.48 | 35 | |
| 1,1-Dichloropropene | 934 | 100 | ug/kg | 1000 | ND | 93.4 | 65-130 | 0.644 | 35 | |
| | | | | | | | | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Report Number: PKI0198

Sampled: 09/13/01

Received: 09/13/01

METHOD BLANKOO DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/0 | 1_ | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/20/01 | (P1I1401-M | SD1) | | | Source: P | K10199-0 | 1 | | | |
| cis-1,3-Dichloropropene | 945 | 100 | ug/kg | 1000 | ND | 94.5 | 60-125 | 0.212 | 35 | |
| trans-1,3-Dichloropropene | 859 | 100 | ug/kg | 1000 | ND | 85.9 | 50-130 | 7.74 | 35 | |
| Ethylbenzene | 1050 | 100 | ug/kg | 1000 | ND | 105 | 70-125 | 2.90 | 35 | |
| Hexachlorobutadiene | 1420 | 250 | ug/kg | 1000 | ND | 142 | 60-125 | 2.86 | 35 | M1 |
| 2-Hexanone | 664 | 500 | ug/kg | 1000 | ND | 66.4 | 25-185 | 16.7 | 35 | |
| Iodomethane | 886 | 100 | ug/kg | 1000 | ND | 88.6 | 30-155 | 22.1 | 35 | |
| Isopropylbenzene | 1050 | 100 | ug/kg | 1000 | ND | 105 | 70-135 | 2.82 | 35 | |
| p-Isopropyltoluene | 969 | 100 | ug/kg | 1000 | ND | 96.9 | 65-130 | 0.617 | 35 | |
| Methylene chloride | 1030 | 500 | ug/kg | 1000 | ND | 103 | 60-140 | 43.9 | 35 | R4 |
| 4-Methyl-2-pentanone (MIBK) | 694 | 500 | ug/kg | 1000 | ND | 69.4 | 10-175 | 5.60 | 35 | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | ND | | 55-135 | 12.8 | 35 | |
| Naphthalene | 736 | 250 | ug/kg | 1000 | ND | 73.6 | 45-155 | 3.60 | 35 | • |
| n-Propylbenzene | 949 | 100 | ug/kg | 1000 | ND | 94.9 | 75-135 | 5.08 | 35 | |
| Styrene | 1020 | 100 | ug/kg | 1000 | ND | 102 | 70-130 | 0.976 | 35 | |
| 1,1,1,2-Tetrachloroethane | 1130 | 250 | ug/kg | 1000 | ND | 113 | 70-130 | 0.889 | 35 | |
| 1,1,2,2-Tetrachloroethane | 580 | 100 | ug/kg | 1000 | ND | 58.0 | 60-140 | 2.89 | 35 | M2 |
| Tetrachloroethene | 1070 | 100 | ug/kg | 1000 | ND | 107 | 65-130 | 3.81 | 35 | |
| Toluene | 1020 | 100 | ug/kg | 1000 | ND | 102 | 70-125 | 6.90 | 35 | |
| 1,2,3-Trichlorobenzene | 838 | 250 | ug/kg | 1000 | ND | 83.8 | 60-135 | 3.52 | 35 | |
| 1,2,4-Trichlorobenzene | 923 | 250 | ug/kg | 1000 | ND | 92.3 | 55-135 | 2.75 | 35 | |
| 1,1,1-Trichloroethane | 1110 | 100 | ug/kg | 1000 | ND | 111 | 65-135 | 0.00 | 35 | |
| 1,1,2-Trichloroethane | 937 | 100 | ug/kg | 1000 | ND | 93.7 | 65-130 | 5.71 | 35 | |
| Trichloroethene | 1210 | 100 | ug/kg | 1000 | ND | 121 | 70-130 | 3.36 | 35 | |
| Trichlorofluoromethane | 1400 | 250 | ug/kg | 2000 | ND | 70.0 | 10-200 | 28.2 | 35 | |
| 1,2,3-Trichloropropane | 743 | 500 | ug/kg | 1000 | ND | 74.3 | 60-150 | 7.11 | 35 | |
| 1,2,4-Trimethylbenzene | 954 | 100 | ug/kg | 1000 | ND | 95.4 | 75-130 | 0.105 | 35 | |
| 1,3,5-Trimethylbenzene | 923 | 100 | ug/kg | 1000 | ND | 92.3 | 70-130 | 1.64 | 35 | • |
| Vinyl acetate | ND . | 1200 | ug/kg | 1000 | ND | 20.0 | 25-130 | 21.0 | 35 | M2 |
| Vinyl chloride | 1590 | 250 | ug/kg | 2000 | ND | 79.5 | 10-200 | 22.8 | 35 | |
| Xylenes, Total | 3200 | 300 | ug/kg | 3000 | ND | 107 | 70-130 | 2.85 | 35 | |
| Surrogate: Dibromofluoromethane | 136 | | ug/kg | 125 | | 109 | 70-125 | | | |
| Surrogate: Toluene-d8 | 156 | | ug/kg | 125 | | 125 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 152 | | ug/kg | 125 | | 122 | 70-130 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01

Report Number:

PKI0198

Received: 09/13/01

METHODIBLANKQCDATA

| • | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P111911 Extracted: 09/19/01 | 1 | | | | | | | | | |
| Blank Analyzed: 09/20/01 (P1I1911-BL | – .K1) | | | | | | | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Chromium | ND | 1.0 | mg/kg | | | | | | | |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | B4 |
| LCS Analyzed: 09/20/01 (P1I1911-BS1) |) | | | | | | | | | ٥, |
| Arsenic | 88.2 | 5.0 | mg/kg | 100 | | 88.2 | 80-120 | | | |
| Chromium | 87.1 | 1.0 | mg/kg | 100 | | 87.1 | 80-120 | | | |
| Copper | 88.0 | 2.0 | mg/kg | 100 | | 88.0 | 80-120 | | | |
| Nickel | 85.7 | 5.0 | mg/kg | 100 | | 85.7 | 80-120 | | | |
| Zinc | 92.6 | 5.0 | mg/kg | 100 | | 92.6 | 80-120 | | | |
| LCS Dup Analyzed: 09/20/01 (P111911- | -BSD1) | | | | | | | | | |
| Arsenic | 92.8 | 5.0 | mg/kg | 100 | | 92.8 | 80-120 | 5.08 | 20 | |
| Chromium | 91.5 | 1.0 | mg/kg | 100 | | 91.5 | 80-120 | 4.93 | 20 | |
| Copper | 93.7 | 2.0 | mg/kg | 100 | | 93.7 | 80-120 | 6.27 | 20 | |
| Nickel | 90.1 | 5.0 | mg/kg | 100 | | 90.1 | 80-120 | 5.01 | 20 | |
| Zinc | 94.8 | 5.0 | mg/kg | 100 | | 94.8 | 80-120 | 2.35 | 20 | |
| Matrix Spike Analyzed: 09/20/01 (P111 | 911-MS1) | | | | Source: P | K10198-1 | 1 | | | |
| Arsenic | 80.9 | 5.0 | mg/kg | 100 | ND | 80.9 | 75-125 | | | |
| Chromium | 115 | 1.0 | mg/kg | 100 | 25 | 90.0 | 75-125 | | | |
| Copper | 107 | 2.0 | mg/kg | 100 | 13 | 94.0 | 75-125 | | | |
| Nickel | 101 | 5.0 | mg/kg | 100 | 13 | 88.0 | 75-125 | | | |
| Zine | 133 | 5.0 | mg/kg | 100 | 46 | 87.0 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/20/01 (| P111911-MS | D1) | | | Source: P | KI0198-1 | 1 | | | |
| Arsenic | 79.6 | 5.0 | mg/kg | 100 | ND | 79.6 | 75-125 | 1.62 | 20 | |
| Chromium | 108 | 1.0 | mg/kg | 100 | 25 | 83.0 | 75-125 | 6.28 | 20 | |
| Copper | 103 | 2.0 | mg/kg | 100 | 13 | 90.0 | 75-125 | 3.81 | 20 | |
| Nickel | 92.4 | 5.0 | mg/kg | 100 | 13 | 79.4 | 75-125 | 8.89 | 20 | |
| Zinc | 122 | 5.0 | mg/kg | 100 | 46 | 76.0 | 75-125 | 8.63 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01

Attention: Jim Clarke

Report Number:

PKI0198

Received: 09/13/01

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| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---------------------------------------|------------|-----------|-------|-------|-----------|-----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2006 Extracted: 09/20/0 | <u>1</u> | | | | | | | | | |
| Blank Analyzed: 09/21/01 (P1I2006-Bl | LK1) | | | | | | ÷ | | | |
| Arsenic | ND | 5.0 | mg/kg | | | | | | | |
| Chromium | ND | 1.0 | mg/kg | | | | | | | |
| Copper | ND | 2.0 | mg/kg | | | | | | | |
| Nickel | ND | 5.0 | mg/kg | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | B4 |
| LCS Analyzed: 09/21/01 (P1I2006-BS1 | 1) | • | | | | | | | | |
| Arsenic | 87.5 | 5.0 | mg/kg | 100 | | 87.5 | 80-120 | | | |
| Chromium | 88.5 | 1.0 | mg/kg | 100 | | 88.5 | 80-120 | | | |
| Copper | 92.8 | 2.0 | mg/kg | 100 | | 92.8 | 80-120 | | | |
| Nickel | 87.7 | 5.0 | mg/kg | 100 | | 87.7 | 80-120 | | | |
| Zinc | 99.2 | 5.0 | mg/kg | 100 | | 99.2 | 80-120 | | | |
| LCS Dup Analyzed: 09/21/01 (P1I2000 | 6-BSD1) | | | | | | | | | |
| Arsenic | 83.7 | 5.0 | mg/kg | 100 | | 83.7 | 80-120 | 4.44 | 20 | |
| Chromium | 83.7 | 1.0 | mg/kg | 100 | | 83.7 | 80-120 | 5.57 | 20 | |
| Copper | 84.6 | 2.0 | mg/kg | 100 | | 84.6 | 80-120 | 9.24 | 20 | |
| Nickel | 83.7 | 5.0 | mg/kg | 100 | | 83.7 | 80-120 | 4.67 | 20 | |
| Zinc | 89.8 | 5.0 | mg/kg | 100 | | 89.8 | 80-120 | 9.95 | 20 | |
| Matrix Spike Analyzed: 09/21/01 (P11) | 2006-MS1) | | | | Source: 1 | PK10202-0 |)5 | | | |
| Arsenic | 77.9 | 5.0 | mg/kg | 100 | ND | 77.9 | 75-125 | | | |
| Chromium | 93.8 | 1.0 | mg/kg | 100 | 14 | 79.8 | 75-125 | | | |
| Copper | 97.2 | 2.0 | mg/kg | 100 | 15 | 82.2 | 75-125 | | | |
| Nickel | 85.1 | 5.0 | mg/kg | 100 | 7.4 | 77.7 | 75-125 | | | |
| Zinc | 104 | 5.0 | mg/kg | 100 | 25 | 79.0 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/21/01 | (P1I2006-M | 1SD1) | | | Source: 1 | PK10202-0 | 05 | | | |
| Arsenic | 58.8 | 5.0 | mg/kg | 100 | ND | 58.8 | 75-125 | 27.9 | 20 | M2,Q11 |
| Chromium | 95.5 | 1.0 | mg/kg | 100 | 14 | 81.5 | 75-125 | 1.80 | 20 | |
| Copper | 97.5 | 2.0 | mg/kg | 100 | 15 | 82.5 | 75-125 | 0.308 | 20 | |
| Nickel | 84.8 | 5.0 | mg/kg | 100 | 7.4 | 77.4 | 75-125 | 0.353 | 20 | |
| Zinc | 110 | 5.0 | mg/kg | 100 | 25 | 85.0 | 75-125 | 5.61 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-0150-2-2.10

PKI0198

Sampled: 09/13/01 Received: 09/13/01

METHOD BLANK QC: DATA

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--|--------------------|-----------|-------|-----------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2415 Extracted: 09/24/01 | - | | | | | | | | | |
| Blank Analyzed: 09/24/01 (P1I2415-BL | K1) | | | | | | | | | |
| Chromium VI | ND | 1.0 | mg/kg | | | | | | | |
| LCS Analyzed: 09/24/01 (P1I2415-BS1) | | | | | | | | | | |
| Chromium VI | 9.73 | 1.0 | mg/kg | 10.0 | | 97.3 | 85-115 | | | |
| LCS Dup Analyzed: 09/24/01 (P1I2415- | BSD1) | | | | | | | | | |
| Chromium VI | 8.93 | 1.0 | mg/kg | 10.0 | | 89.3 | 85-115 | 8.57 | 20 | |
| Matrix Spike Analyzed: 09/24/01 (P1124 | 115-MS1) | | | | Source: P | KI0159-0 | 7 | | | |
| Chromium VI | 9.08 | 1.0 | mg/kg | 10.0 | ND | 89.3 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 09/24/01 (| /01 (P1I2415-MSD1) | | | | Source: P | KI0159-0 | 7 | | | |
| Chromium VI | 9.08 | 1.0 | mg/kg | 10.0 | ND | 89.3 | 85-115 | 0.00 | 20 | |
| Batch: P1J0103 Extracted: 10/01/01 | _ | | | | | | | | | |
| Blank Analyzed: 10/02/01 (P1J0103-BL | K1) | | | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 10/02/01 (P1J0103-BS1) | | | | | | | | | | |
| Zinc | 86.2 | 5.0 | mg/kg | 100 | | 86.2 | 80-120 | | | |
| Matrix Spike Analyzed: 10/02/01 (P1J0 | 103-MS1) | | | | Source: P | KI0288-1 | 9 | | | |
| Zinc | 142 | 5.0 | mg/kg | 100 | 29 | 113 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 10/02/01 (P1J0103-MSD1) | | | | Source: P | KI0288-1 | 9 | | | | |
| Zinc | 117 | 5.0 | mg/kg | 100 | 29 | 88.0 | 75-125 | 19.3 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-0150-2-2.10

Sampled: 09/13/01

Report Number:

PKI0198

Received: 09/13/01

METHODIHLANKOE DATA

| | | Reporting | ting | | Source | | %REC | | RPD | Data |
|---------------------------------|-----------------|-----------|-------|-------|-----------|-----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1J0507 Extracted: 10 | /05/01 | | | | | | | | | |
| Blank Analyzed: 10/07/01 (P1J05 | 07-BLK1) | | | | | | | | | |
| Zinc | 5.44 | 5.0 | mg/kg | | | | | | | B1 |
| LCS Analyzed: 10/07/01 (P1J050) | 7-BS1) | | | | | | | | | |
| Zinc | 105 | 5.0 | mg/kg | 100 | | 105 | 80-120 | | | |
| Matrix Spike Analyzed: 10/07/01 | (P1J0507-MS1) | | | | Source: F | PKJ0075-0 | 01 | | | |
| Zinc | 191 | 5.0 | mg/kg | 100 | 75 | 116 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 10/0 | 7/01 (P1J0507-M | SD1) | | | Source: I | PKJ0075-0 | 01 | | | |
| Zine | 180 | 5.0 | mg/kg | 100 | 75 | 105 | 75-125 | 5.93 | 20 | |
| Batch: P1J1010 Extracted: 10 | /10/01 | | | | | | | | | |
| Blank Analyzed: 10/11/01 (P1J10 | 10-BLK1) | | | | | | | | | |
| Zinc | 6.02 | 5.0 | mg/kg | | | | | | | B1 |
| LCS Analyzed: 10/11/01 (P1J101 | 0-BS1) | | | | | | | | | |
| Zinc | 99.7 | 5.0 | mg/kg | 100 | | 99.7 | 80-120 | | | |
| Matrix Spike Analyzed: 10/11/01 | (P1J1010-MS1) | | | | Source: I | PKJ0029- | 01RE2 | | | |
| Zinc | 152 | 5.0 | mg/kg | 100 | 64 | 88.0 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 10/1 | 1/01 (P1J1010-M | (SD1) | | | Source: I | PKJ0029- | 01RE2 | | | |
| Zinc | 147 | 5.0 | mg/kg | 100 | 64 | 83.0 | 75-125 | 3.34 | 20 | |



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METHOD BLANKKOU DATA

INORGANICS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--|------------|-----------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2412 Extracted: 09/24/0 | <u>L</u> | | | | | | | | | |
| Blank Analyzed: 09/25/01 (P1I2412-BI | K1) | | | | | | | | | |
| Total Cyanide | ND | 0.020 | mg/kg | | | | | | | |
| Blank Analyzed: 09/25/01 (P1I2412-BI | .K2) | | | | | | | | | |
| Total Cyanide | ND | 0.020 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 09/25/01 (P1I2 | 412-MS1) | | | | Source: P | KI0180-0 | 8 | | | |
| Total Cyanide | 2.14 | 0.50 | mg/kg | 2.50 | ND | 85.6 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/25/01 | (P1I2412-M | SD1) | | | Source: P | K10180-0 | 8 | | | |
| Total Cyanide | 3.27 | 0.50 | mg/kg | 2.50 | ND | 131 | 70-130 | 41.8 | 20 | N2,R1 |
| Reference Analyzed: 09/25/01 (P112412 | 2-SRM1) | | | | | | | | | |
| Total Cyanide | 101 | 20 | mg/kg | 201 | | 50.2 | 40-160 | | | |
| Reference Analyzed: 09/25/01 (P1I2412 | 2-SRM2) | | | | | | | | | |
| Total Cyanide | 157 | 20 | mg/kg | 201 | | 78.1 | 40-160 | | | |
| Batch: P1I2701 Extracted: 09/27/0 | <u>L</u> | | | | | | | | | |
| Blank Analyzed: 09/27/01 (P1I2701-BI | .K1) | | | | | | | | | |
| Total Cyanide | ND | 0.50 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 09/27/01 (P112 | 701-MS1) | | | | Source: P | K10355-0 | 1 | | | |
| Total Cyanide | 2.77 | 0.50 | mg/kg | 2.50 | ND | 111 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/27/01 (P112701-MSD1) | | | | | Source: P | KI0355-0 | 1 | | | |
| Total Cyanide | 2.18 | 0.50 | mg/kg | 2.50 | ND | 87.2 | 70-130 | 23.8 | 20 | R1 |



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NETHODELANKOU DATA

INORGANICS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2701 Extracted: 09/27/ | <u>/01</u> | | | | | | | | | |
| Reference Analyzed: 09/27/01 (P1I27 | (01-SRM1) | | | | | | | | | |
| Total Cyanide | 177 | 20 | mg/kg | 201 | | 88.1 | 40-160 | | | |
| Reference Analyzed: 09/27/01 (P1I27 | (01-SRM2) | | | | | | | | | |
| Total Cyanide | 138 | 20 | mg/kg | 201 | | 68.7 | 40-160 | | | |
| | | | | | | | | | | |



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METHOD BLANKQC DATA

DATA QUALIFIERS AND DEFINITIONS

- Target analyte detected in method blank at or above the method reporting limit.
- B4 Target analyte detected in blank at/above method acceptance criteria.
- D1 Sample required dilution due to matrix interference. See case narrative.
- M1 Matrix spike recovery was high, the method control sample recovery was acceptable.
- M2 Matrix spike recovery was low, the method control sample recovery was acceptable.
- N1 See case narrative.
- N2 See corrective action report.
- Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.
- R1 RPD exceeded the method control limit. See case narrative.
- R4 MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.
- R6 LFB/LFBD RPD exceeded the method control limit. Recovery met acceptance criteria.
- S4 Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
- V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not reported.
- RPD Relative Percent Difference

Del Mar Analytical

CHAIN OF CUSTODY FORM

(909) 370-466 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (828) 505-8596 FAX (818) 779-1843 (480) 785-0045 FAX (819) 785-085 (702) 798-3020 FAX (702) 798-3021

7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 9484 Chesapeeke Dr., Suite 805, San Diego, CA 82123 9830 South 51st St., Suite B-120, Phoenb, AZ 8604 2520 E. Sunset Rd., Suite G, Las Vegas, NV 89120

1014 E. Cooley Dr., Suite A,

Special Instructions ō HOLD 72 hours 5 days Page normal on ice (Check) Sample Integrity: (Check) O 3 S B <u>_</u> で 8 5 Ç -Tumaround Time: 18/18/N same day 24 hours 48 hours intact 10/2/16 Analysis Required 16:10 4/11/1/21 Date /Time: Date /Time: Date /Time: Received in Lab by: Sampling | Sampling | Preservatives Received by: Received by: 240 10% N 12.45 五大 SA SA 0401 10-0-11-W Time MESTON 100K 1180 3/11 437 0250 Project/PO Number: Date Phone Number: =ax Number: 16:40 Cont. 2 realle かんかな Date /Time: Container Type 10/2/ Sample Matrix えずか M Š 0 Û 9 S B 3 O I į ş Description Client Name/Address: V 100 100 199 しのい į elinquished By Relinquished By BB B 188 180 186

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Sampled: 09/12/01 Received: 09/12/01

Issued: 9/28/01

Report Number:

PKI0180

---- (OASP NARRATIA)

| LABORATORY | SAMPLE | SAMPLE |
|---------------|-----------------|--------|
| NUMBER | DESCRIPTION | MATRIX |
| PKI0180-04 | LB7-S-30 | Soil |
| PKI0180-06 | LB7-S-50 | Soil |
| PKI0180-08 | LB4-S-60 | Soil |
| PKI0180-08RE1 | LB4-S-60 | Soil |
| PKI0180-09 | LB7-S-10 | Soil |
| PKI0180-09RE1 | LB7-S-10 | Soil |
| PKI0180-10 | LB7-S-20 | Soil |
| PK10180-10RE1 | LB7-S-20 | Soil |
| PKI0180-11 | LB7-S-30 | Soil |
| PKI0180-11RE1 | LB7-S-30 | Soil |
| PKI0180-12 | LB7-S-40 | Soil |
| PKI0180-12RE1 | LB7-S-40 | Soil |
| PKI0180-13 | LB7-S-50 | Soil |
| PKI0180-13RE1 | LB7-S-50 | Soil |
| PK10180-14 | LB7-S-60 | Soil |
| PKI0180-14RE1 | LB7-S-60 | Soil |
| PKI0180-15 | RINSATE 7/12/01 | Water |
| PKI0180-15RE1 | RINSATE 7/12/01 | Water |

SAMPLE RECEIPT:

Samples were received intact, on ice, and with chain of custody documentation.

HOLDING TIMES:

Holding times were met.

PRESERVATION:

Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS:

No significant observations were made.

SUBCONTRACTED:

No analyses were subcontracted to an outside laboratory.

QA/QC CRITERIA:

The R1 flag on Cyanide indicates that the RPD exceeded the method control limit. See Corrective Action Report.

EXPLANATION OF DATA

QUALIFIERS:

The N2 flag on Cyanide indicates that the Matrix Spike recovery was outside the method control limits. See Corrective Action Report.

DEL MAR ANALYT**I**CAL , PHOENIX (AZ0426)

Melissa Evans Project Manager PKI0180 Page 1 of 39





CORRECTIVE ACTION REPORT

Department:

Wet Chemistry

Methods:

9014

Date:

09/25/2001

Matrix:

Soil

Batch:

P1I2412

Samples Affected:

PKI0198-07, PKI0198-08, PKI0168-01 - PKI0168-05 &

PKI0180-08 - PKI0180-14

Identification and Definition of Problem:

The Matrix Spike Duplicate (MSD) recovered high (131%) and outside of the 70-130% acceptance limits. Because of the high recovery in the MSD the Relative Percent Difference (RPD) between the Matrix Spike (MS) and the MSD was high (41.8%) and outside of the 20% acceptance limits.

Determination of the Cause of the Problem:

A definitive cause for the high recovery has not been determined.

Corrective Action:

The MS as well as the Laboratory Control Sample recovered within acceptance limits, thus validating the batch. The MSD has been flagged "N2" to indicate the low recovery and "R1" to indicate that the RPD was outside of acceptance limits.

Elizabeth C. Wueschner: Lhyalet C Wuscher Date: 07/28/2001 Quality Assurance Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Sampled: 09/12/01

Report Number:

PKI0180

Received: 09/12/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|-------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0180-04 (LB7-S- | -30 - Soil) | | 00 | 0 0 | | | | |
| Acetone | EPA 8260B | P111401 | 1000 | ND | 1 | 9/14/01 | 9/26/01 | |
| Benzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Bromobenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| Bromochloromethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| Bromodichloromethane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Bromoform | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| Bromomethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1401 | 500 | ND | 1 | 9/14/01 | 9/26/01 | |
| n-Butylbenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| tert-Butylbenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| Carbon Disulfide | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| Chlorobenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Chloroethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| Chloroform | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Chloromethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| Dibromochloromethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Dibromomethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Dichlorodifluoromethane | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,1-Dichloroethane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,2-Dichloroethane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,1-Dichloroethene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,3-Dichloropropane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,1-Dichloropropene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Ethylbenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| 2-Hexanone | EPA 8260B | P1I1401 | 500 | ND | 1 | 9/14/01 | 9/26/01 | |
| Iodomethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Isopropylbenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| p-Isopropyltoluene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |

Melissa Evans Project Manager PKI0180 Page 2 of 39



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Report Number: PKI0180

Sampled: 09/12/01 Received: 09/12/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---------------------------------------|---------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0180-04 (LB7- | -S-30 - Soil) | | | | | | | |
| Methylene chloride | EPA 8260B | P1I1401 | 500 | ND | 1 | 9/14/01 | 9/26/01 | |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1401 | 500 | ND | 1 | 9/14/01 | 9/26/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| Naphthalene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| n-Propylbenzene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Styrene | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Tetrachloroethene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Toluene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I1401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Trichloroethene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P111401 | 500 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P111401 | 100 | ND | 1 | 9/14/01 | 9/26/01 | |
| Vinyl acetate | EPA 8260B | P1I1401 | 1200 | ND | 1 | 9/14/01 | 9/26/01 | |
| Vinyl chloride | EPA 8260B | P111401 | 250 | ND | 1 | 9/14/01 | 9/26/01 | |
| Xylenes, Total | EPA 8260B | P111401 | 300 | ND | 1 | 9/14/01 | 9/26/01 | |
| Surrogate: Dibromofluoromethane (70-1 | 125%) | | | 109 % | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 128 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-1 | 30%) | | | 116% | | | | |

The reporting limit for this sample was adjusted by a factor of 0.936 to account for the applicable preparation factor.



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Sampled: 09/12/01

Report Number:

PKI0180

Received: 09/12/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-----------------------------|---------------|----------|-----------------------------|---------------------------|--------------------|-----------------------|------------------|--------------------|
| Sample ID: PKI0180-06 (LB7- | -S-50 - Soil) | | 88 | 88 | | | | |
| Acetone | EPA 8260B | P1I1401 | 910 | ND | 1 | 9/14/01 | 9/25/01 | |
| Benzene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Bromobenzene | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| Bromochloromethane | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| Bromodichloromethane | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Bromoform | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| Bromomethane | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I1401 | 450 | ND | 1 | 9/14/01 | 9/25/01 | |
| n-Butylbenzene | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| sec-Butylbenzene | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| tert-Butylbenzene | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| Carbon Disulfide | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| Carbon tetrachloride | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| Chlorobenzene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Chloroethane | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | V1 |
| Chloroform | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Chloromethane | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| 4-Chlorotoluene | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| Dibromochloromethane | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P111401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Dibromomethane | EPA 8260B | P111401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P1I1401 | 91 | ND | i | 9/14/01 | 9/25/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I1401 | 91 | ND | i | 9/14/01 | 9/25/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Ethylbenzene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| 2-Hexanone | EPA 8260B | P1I1401 | 450 | ND | 1 | 9/14/01 | 9/25/01 | |
| Iodomethane | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Isopropylbenzene | EPA 8260B | P111401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| p isopropyriorium | LI A 0200D | 1 111701 | 91 | עויו | 1 | 21 1 4 /U1 | 31 4 31 U I | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID: 70211-0-01SD

Sampled: 09/12/01 Received: 09/12/01

Attention: Jim Clarke

Report Number: PKI0180

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/kg | Sample Result ug/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0180-06 (LB7-8 | S-50 - Soil) | | 8 8 | 0 0 | | | | |
| Methylene chloride | EPA 8260B | P1I1401 | 450 | ND | 1 | 9/14/01 | 9/25/01 | VI |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I1401 | 450 | ND | 1 | 9/14/01 | 9/25/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| Naphthalene | EPA 8260B | P111401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| n-Propylbenzene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Styrene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Tetrachloroethene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Toluene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P111401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P111401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | V1 |
| 1,1,2-Trichloroethane | EPA 8260B | P111401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Trichloroethene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I1401 | 450 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I1401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P111401 | 91 | ND | 1 | 9/14/01 | 9/25/01 | |
| Vinyl acetate | EPA 8260B | P111401 | 1100 | ND | 1 | 9/14/01 | 9/25/01 | |
| Vinyl chloride | EPA 8260B | P1I1401 | 230 | ND | 1 | 9/14/01 | 9/25/01 | |
| Xylenes, Total | EPA 8260B | P111401 | 270 | ND | 1 | 9/14/01 | 9/25/01 | |
| Surrogate: Dibromofluoromethane (70-12 | | 89.4 % | | | | | | |
| Surrogate: Toluene-d8 (50-135%) | | | | 91.2 % | | | | |
| Surrogate: 4-Bromofluorobenzene (70-13) | 0%) | | | 86.7 % | | | | |

The reporting limit for this sample was adjusted by a factor of 0.907 to account for the applicable preparation factor.



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Sampled: 09/12/01 Received: 09/12/01

Report Number:

PKI0180

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | | | | Dilution | Data | D-4- | Data |
|------------------------------|-----------|---------|-----------|--------|----------|-------------------|----------|------------|
| Analysta | Method | Dotoh | Reporting | Sample | Dilution | Date Extracted | Date | Data |
| Analyte | Method | Batch | Limit | Result | Factor | Extracted | Analyzed | Qualifiers |
| | | | ug/l | ug/l | | | | |
| Sample ID: PKI0180-15 (RINSA | | | | | | | | |
| Acetone | EPA 8260B | P112706 | 20 | ND | 1 | 9/26/01 | 9/26/01 | |
| Benzene | EPA 8260B | P112706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Bromobenzene | EPA 8260B | P112706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Bromochloromethane | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Bromodichloromethane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Bromoform | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Bromomethane | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 2-Butanone (MEK) | EPA 8260B | P1I2706 | 10 | ND | 1 | 9/26/01 | 9/26/01 | |
| n-Butylbenzene | EPA 8260B | P112706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| sec-Butylbenzene | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| tert-Butylbenzene | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Carbon Disulfide | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Carbon tetrachloride | EPA 8260B | P112706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Chlorobenzene | EPA 8260B | P112706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Chloroethane | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Chloroform | EPA 8260B | P112706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Chloromethane | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 2-Chlorotoluene | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 4-Chlorotoluene | EPA 8260B | P112706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Dibromochloromethane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,2-Dibromo-3-chloropropane | EPA 8260B | P1I2706 | 5.0 | ND | 1 - | 9/26/01 | 9/26/01 | |
| 1,2-Dibromoethane (EDB) | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Dibromomethane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,2-Dichlorobenzene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,3-Dichlorobenzene | EPA 8260B | P112706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,4-Dichlorobenzene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Dichlorodifluoromethane | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,1-Dichloroethane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,2-Dichloroethane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,1-Dichloroethene | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| cis-1,2-Dichloroethene | EPA 8260B | P112706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| trans-1,2-Dichloroethene | EPA 8260B | P112706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,2-Dichloropropane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,3-Dichloropropane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 2,2-Dichloropropane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,1-Dichloropropene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| cis-1,3-Dichloropropene | EPA 8260B | P112706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| trans-1,3-Dichloropropene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Ethylbenzene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Hexachlorobutadiene | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 2-Hexanone | EPA 8260B | P1I2706 | 10 | ND | 1 | 9/26/01 | 9/26/01 | |
| Iodomethane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Isopropylbenzene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| p-Isopropyltoluene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| | | | | | _ | | | |

Melissa Evans Project Manager PKI0180 Page 6 of 39



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 702

70211-0-01SD

Sampled: 09/12/01

Report Number: PKI

PKI0180

Received: 09/12/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| Analyte | Method | Batch | Reporting Limit ug/I | Sample Result ug/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0180-15 (RINSA | ATE 7/12/01 - V | Vater) | | | | | | |
| Methylene chloride | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | M1 |
| 4-Methyl-2-pentanone (MIBK) | EPA 8260B | P1I2706 | 10 | ND | 1 | 9/26/01 | 9/26/01 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Naphthalene | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| n-Propylbenzene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Styrene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,1,1,2-Tetrachloroethane | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,1,2,2-Tetrachloroethane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Tetrachloroethene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Toluene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,2,3-Trichlorobenzene | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,2,4-Trichlorobenzene | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,1,1-Trichloroethane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,1,2-Trichloroethane | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Trichloroethene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Trichlorofluoromethane | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,2,3-Trichloropropane | EPA 8260B | P1I2706 | 10 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,2,4-Trimethylbenzene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| 1,3,5-Trimethylbenzene | EPA 8260B | P1I2706 | 2.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Vinyl acetate | EPA 8260B | P1I2706 | 25 | ND | 1 | 9/26/01 | 9/26/01 | |
| Vinyl chloride | EPA 8260B | P1I2706 | 5.0 | ND | 1 | 9/26/01 | 9/26/01 | |
| Xylenes, Total | EPA 8260B | P1I2706 | 10 | ND | 1 | 9/26/01 | 9/26/01 | |
| Surrogate: Dibromofluoromethane (80-12 | 0%) | | | 103 % | | | | |
| Surrogate: Toluene-d8 (80-120%) | | | | 109 % | | | | |
| Surrogate: 4-Bromofluorobenzene (80-120 | 0%) | | | 100 % | | | | |

DEL MAR ANALYTICAL, PHOENIX (AZ0426



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number: PKI0180

Received: 09/12/01

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers | |
|---|-----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|--|
| Sample ID: PKI0180-08 (LB4-5 | S-60 - Soil) | | | | | | | | |
| Arsenic | EPA 6010B | P111805 | 5.0 | ND | 1 | 9/18/01 | 9/27/01 | | |
| Chromium | EPA 6010B | P111805 | 1.0 | 50 | 1 | 9/18/01 | 9/20/01 | | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | | |
| Copper | EPA 6010B | P1I1805 | 2.0 | 14 | 1 | 9/18/01 | 9/20/01 | | |
| Nickel | EPA 6010B | P111805 | 5.0 | 19 | 1 | 9/18/01 | 9/20/01 | | |
| Sample ID: PKI0180-08RE1 (L | B4-S-60 - Soil) | | | | | | | | |
| Zinc | EPA 6010B | P112605 | 5.0 | 58 | 1 | 9/26/01 | 9/28/01 | | |
| Sample ID: PKI0180-09 (LB7-S-10 - Soil) | | | | | | | | | |
| Arsenic | EPA 6010B | P1I1805 | 5.0 | ND | 1 | 9/18/01 | 9/27/01 | | |
| Chromium | EPA 6010B | P1I1805 | 1.0 | 20 | 1 | 9/18/01 | 9/20/01 | | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | | |
| Copper | EPA 6010B | P111805 | 2.0 | 20 | 1 | 9/18/01 | 9/20/01 | | |
| Nickel | EPA 6010B | P1I1805 | 5.0 | 19 | 1 | 9/18/01 | 9/20/01 | | |
| Sample ID: PKI0180-09RE1 (L | B7-S-10 - Soil) | | | | | | | | |
| Zinc | EPA 6010B | P1I2605 | 5.0 | 63 | 1 | 9/26/01 | 9/28/01 | | |
| Sample ID: PKI0180-10 (LB7-9 | S-20 - Soil) | | | | | | | | |
| Arsenic | EPA 6010B | P1I1805 | 5.0 | ND | 1 | 9/18/01 | 9/20/01 | | |
| Chromium | EPA 6010B | P1I1805 | 1.0 | 27 | 1 | 9/18/01 | 9/20/01 | | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | | |
| Copper | EPA 6010B | P1I1805 | 2.0 | 17 | 1 | 9/18/01 | 9/20/01 | | |
| Nickel | EPA 6010B | P111805 | 5.0 | 18 | 1 | 9/18/01 | 9/20/01 | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Report Number: PKI0180

Sampled: 09/12/01

Received: 09/12/01

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|-------------------------------|-----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0180-10RE1 (LB | 7-S-20 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1I2605 | 5.0 | 56 | 1 | 9/26/01 | 9/28/01 | |
| Sample ID: PKI0180-11 (LB7-S- | 30 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I1805 | 5.0 | ND | 1 | 9/18/01 | 9/27/01 | |
| Chromium | EPA 6010B | P1I1805 | 1.0 | 18 | 1 | 9/18/01 | 9/20/01 | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P1I1805 | 2.0 | 14 | 1 | 9/18/01 | 9/20/01 | |
| Nickel | EPA 6010B | P1I1805 | 5.0 | 12 | 1 | 9/18/01 | 9/20/01 | |
| Sample ID: PKI0180-11RE1 (LB | 7-S-30 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1I2605 | 5.0 | 41 | 1 | 9/26/01 | 9/28/01 | |
| Sample ID: PKI0180-12 (LB7-S- | 40 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I1805 | 5.0 | ND | 1 | 9/18/01 | 9/27/01 | |
| Chromium | EPA 6010B | P1I1805 | 1.0 | 16 | 1 | 9/18/01 | 9/20/01 | |
| Chromium VĬ | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P1I1805 | 2.0 | 18 | 1 | 9/18/01 | 9/20/01 | |
| Nickel | EPA 6010B | P1I1805 | 5.0 | 15 | 1 | 9/18/01 | 9/20/01 | |
| Sample ID: PKI0180-12RE1 (LB | 37-S-40 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1I2605 | 5.0 | 56 | 1 | 9/26/01 | 9/28/01 | |
| Sample ID: PKI0180-13 (LB7-S- | 50 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I1805 | 5.0 | ND | 1 | 9/18/01 | 9/27/01 | |
| Chromium | EPA 6010B | P1I1805 | 1.0 | 14 | 1 | 9/18/01 | 9/20/01 | |
| Chromium VI | EPA 7196A | P1I2415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P1I1805 | 2.0 | 12 | 1 | 9/18/01 | 9/20/01 | |
| Nickel | EPA 6010B | P111805 | 5.0 | 11 | 1 | 9/18/01 | 9/20/01 | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

Received: 09/12/01

TOTAL METALS

PKI0180

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--------------------------------|----------------|---------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0180-13RE1 (LB7 | 7-S-50 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1I2605 | 5.0 | 41 | 1 | 9/26/01 | 9/28/01 | |
| Sample ID: PKI0180-14 (LB7-S-6 | 0 - Soil) | | | | | | | |
| Arsenic | EPA 6010B | P1I1805 | 5.0 | ND | 1 | 9/18/01 | 9/20/01 | |
| Chromium | EPA 6010B | P1I1805 | 1.0 | 15 | 1 | 9/18/01 | 9/20/01 | |
| Chromium VI | EPA 7196A | P112415 | 1.0 | ND | 1 | 9/24/01 | 9/24/01 | |
| Copper | EPA 6010B | P111805 | 2.0 | 10 | 1 | 9/18/01 | 9/20/01 | |
| Nickel | EPA 6010B | P111805 | 5.0 | 14 | 1 | 9/18/01 | 9/20/01 | |
| Sample ID: PKI0180-14RE1 (LB7 | 7-S-60 - Soil) | | | | | | | |
| Zinc | EPA 6010B | P1I2605 | 5.0 | 35 | 1 | 9/26/01 | 9/28/01 | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering

4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Report Number: PKI0180

Sampled: 09/12/01

Received: 09/12/01

TOTAL RECOVERABLE METALS

| Analyte | Method | Batch | Reporting Limit mg/l | Sample Result mg/l | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|------------------------------|----------------|---------|----------------------------|--------------------------|--------------------|-------------------|------------------|--------------------|
| Sample ID: PKI0180-15 (RINSA | TE 7/12/01 - W | ater) | | | | | | |
| Arsenic | EPA 200.7 | P1I2021 | 0.050 | ND | 1 | 9/20/01 | 9/23/01 | |
| Chromium | EPA 200.7 | P1I2021 | 0.010 | ND | 1 | 9/20/01 | 9/23/01 | |
| Chromium VI | SM3500CR-D | P1I1408 | 0.025 | ND | 1 | 9/13/01 | 9/13/01 | |
| Copper | EPA 200.7 | P1I2021 | 0.020 | ND | 1 | 9/20/01 | 9/23/01 | |
| Nickel | EPA 200.7 | P1I2021 | 0.050 | ND | 1 | 9/20/01 | 9/23/01 | |
| Zinc | EPA 200.7 | P112021 | 0.050 | ND | 1 | 9/20/01 | 9/23/01 | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

Attention: Jim Clarke

Report Number:

PKI0180

Received: 09/12/01

INORGANICS

| Analyte | Method | Batch | Reporting Limit mg/kg | Sample Result mg/kg | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers | | | |
|-----------------------------|-------------------------|------------|-----------------------------|---------------------------|--------------------|-------------------|------------------|--------------------|--|--|--|
| Sample ID: PKI0180-08 (LB4- | -S-60 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I2412 | 0.50 | ND | 1 | 9/24/01 | 9/25/01 | | | | |
| Sample ID: PKI0180-09 (LB7- | -S-10 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I2412 | 0.50 | ND | 1 | 9/24/01 | 9/25/01 | | | | |
| Sample ID: PKI0180-10 (LB7- | -S-20 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I2412 | 0.50 | ND | 1 | 9/24/01 | 9/25/01 | | | | |
| Sample ID: PKI0180-11 (LB7- | -S-30 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I2412 | 0.50 | ND | 1 | 9/24/01 | 9/25/01 | | | | |
| Sample ID: PKI0180-12 (LB7- | -S-40 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I2412 | 0.50 | ND | 1 | 9/24/01 | 9/25/01 | | | | |
| Sample ID: PKI0180-13 (LB7- | -S-50 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P112412 | 0.50 | ND | 1 | 9/24/01 | 9/25/01 | | | | |
| Sample ID: PKI0180-14 (LB7- | -S-60 - Soil) | | | | | | | | | | |
| Total Cyanide | EPA 9014 | P1I2412 | 0.50 | ND | 1 | 9/24/01 | 9/25/01 | | | | |
| | | | mg/l | mg/l | | | | | | | |
| Sample ID: PKI0180-15RE1 (| RINSATE 7/12/0 : | 1 - Water) | | | | | | | | | |
| Total Cyanide | SM4500-CN,C-E | P1I2622 | 0.020 | ND | 1 | 9/26/01 | 9/26/01 | | | | |
| | | | | | | | | | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8569 FAX (886) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

Report Number:

PKI0180

Received: 09/12/01

. VIET HOD BIJANKOX. DATA-

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/0 | 1 | | | | | | | | | |
| Blank Analyzed: 09/19/01 (P1I1401-B) | LK1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | | | | | | | |
| Benzene | ND | 100 | ug/kg | | | | | | | |
| Bromobenzene | ND | 250 | ug/kg | | | | | | | |
| Bromochloromethane | ND | 250 | ug/kg | | | | | | | |
| Bromodichloromethane | ND | 100 | ug/kg | | | | | | | |
| Bromoform | ND | 250 | ug/kg | | | | | | | |
| Bromomethane | ND | 250 | ug/kg | | | | | | | |
| 2-Butanone (MEK) | ND | 500 | ug/kg | | | | | | | |
| n-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| sec-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| tert-Butylbenzene | ND | 250 | ug/kg | | | | | | | |
| Carbon Disulfide | ND | 250 | ug/kg | | | | | | | |
| Carbon tetrachloride | ND | 250 | ug/kg | | | | | | | |
| Chlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Chloroethane | ND | 250 | ug/kg | | | | | | | |
| Chloroform | ND | 100 | ug/kg | | | | | | | |
| Chloromethane | ND | 250 | ug/kg | | | | | | | |
| 2-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| 4-Chlorotoluene | ND | 250 | ug/kg | | | | | | | |
| Dibromochloromethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 250 | ug/kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 100 | ug/kg | | | | | | | |
| Dibromomethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| 1,4-Dichlorobenzene | ND | 100 | ug/kg | | | | | | | |
| Dichlorodifluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,1-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1-Dichloroethene | ND | 250 | ug/kg | | | | | | | |
| cis-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| trans-1,2-Dichloroethene | ND | 100 | ug/kg | | | | | | | |
| 1,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 1,3-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| 2,2-Dichloropropane | ND | 100 | ug/kg | | | | | | | |
| | | | _ | | | | | | | |

Melissa Evans Project Manager PKI0180 Page 13 of 39



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

Report Number:

PKI0180

Received: 09/12/01

METHOD BLANK/96 DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P111401 Extracted: 09/14/0 | <u>)1</u> | | | | | | | | | |
| Blank Analyzed: 09/19/01 (P1I1401-B | LK1) | | | | | | ÷ | | | |
| 1,1-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 100 | ug/kg | | | | | | | |
| Ethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Hexachlorobutadiene | ND | 250 | ug/kg | | | | | | | |
| 2-Hexanone | ND | 500 | ug/kg | | | | | | | |
| Iodomethane | ND | 100 | ug/kg | | | | | | | |
| Isopropylbenzene | ND | 100 | ug/kg | | | | | | | |
| p-lsopropyltoluene | ND | 100 | ug/kg | | | | | | | |
| Methylene chloride | ND | 500 | ug/kg | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 500 | ug/kg | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | | | | | | |
| Naphthalene | ND | 250 | ug/kg | | | | | | | |
| n-Propylbenzene | ND | 100 | ug/kg | | | | | | | |
| Styrene | ND | 100 | ug/kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 100 | ug/kg | | | | | | | |
| Tetrachloroethene | ND | 100 | ug/kg | | | | | | | |
| Toluene | ND | 100 | ug/kg | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 250 | ug/kg | | | | | | | |
| 1,1,1-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| 1,1,2-Trichloroethane | ND | 100 | ug/kg | | | | | | | |
| Trichloroethene | ND | 100 | ug/kg | | | | | | | |
| Trichlorofluoromethane | ND | 250 | ug/kg | | | | | | | |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 100 | ug/kg | | | | | | | |
| Vinyl acetate | ND | 1200 | ug/kg | | | | | | | |
| Vinyl chloride | ND | 250 | ug/kg | | | | | | | |
| Xylenes, Total | ND | 300 | ug/kg | | | | | | | |
| Surrogate: Dibromofluoromethane | 146 | | ug/kg | 125 | | 117 | 70-125 | | | |
| Surrogate: Toluene-d8 | 168 | | ug/kg | 125 | | 134 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 164 | | ug/kg | 125 | | 131 | 70-130 | | | S4 |

Melissa Evans Project Manager



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Report Number: PKI0180

Sampled: 09/12/01 Received: 09/12/01

MDHLIODEBLANKOJO DAGA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|----------|-----------|-------|---------------|--------|--------------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/01 | <u>L</u> | | | | | | | | | |
| LCS Analyzed: 09/19/01 (P1I1401-BS1 |) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 96.7 | 5-200 | | | |
| Benzene | 931 | 100 | ug/kg | 1000 | | 93.1 | 65-130 | | | |
| Bromobenzene | 1120 | 250 | ug/kg | 1000 | | 112 | 60-135 | | | |
| Bromochloromethane | 1120 | 250 | ug/kg | 1000 | | 112 | 60-135 | | | |
| Bromodichloromethane | 936 | 100 | ug/kg | 1000 | | 93.6 | 30-135 | | | |
| Bromoform | 880 | 250 | ug/kg | 1000 | | 88.0 | 60-140 | | | |
| Bromomethane | 1250 | 250 | ug/kg | 2000 | | 62.5 | 10-200 | | | |
| 2-Butanone (MEK) | 1030 | 500 | ug/kg | 1000 | | 103 | 10-160 | | | |
| n-Butylbenzene | 935 | 250 | ug/kg | 1000 | | 93.5 | 65-125 | | | |
| sec-Butylbenzene | 985 | 250 | ug/kg | 1000 | | 98.5 | 70-135 | | | |
| tert-Butylbenzene | 1010 | 250 | ug/kg | 1000 | | 101 | 70-130 | | | |
| Carbon Disulfide | 738 | 250 | ug/kg | 1000 | | 73.8 | 20-120 | | | |
| Carbon tetrachloride | 899 | 250 | ug/kg | 1000 | | 89.9 | 70-140 | | | |
| Chlorobenzene | 1090 | 100 | ug/kg | 1000 | | 109 | 70-125 | | | |
| Chloroethane | 1190 | 250 | ug/kg | 2000 | | 59.5 | 10-200 | | | |
| Chloroform | 994 | 100 | ug/kg | 1000 | | 99.4 | 35-135 | | | |
| Chloromethane | 1480 | 250 | ug/kg | 2000 | | 74.0 | 10-200 | | | |
| 2-Chlorotoluene | 997 | 250 | ug/kg | 1000 | | 99.7 | 70-135 | | | |
| 4-Chlorotoluene | 998 | 250 | ug/kg | 1000 | | 99.8 | 75-135 | | | |
| Dibromochloromethane | 974 | 100 | ug/kg | 1000 | | 97.4 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane | 1040 | 250 | ug/kg | 1000 | | 104 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) | 1110 | 100 | ug/kg | 1000 | | 111 | 70-130 | | | |
| Dibromomethane | 1090 | 100 | ug/kg | 1000 | | 109 | 65-130 | | | |
| 1,2-Dichlorobenzene | 1050 | 100 | ug/kg | 1000 | | 105 | 70-125 | | | |
| 1,3-Dichlorobenzene | 1050 | 100 | ug/kg | 1000 | | 105 | 70-125 | | | |
| 1,4-Dichlorobenzene | 1090 | 100 | ug/kg | 1000 | | 109 | 70-135 | | | |
| Dichlorodifluoromethane | 1330 | 250 | ug/kg | 2000 | | 66.5 | 10-185 | | | |
| 1,1-Dichloroethane | 966 | 100 | ug/kg | 1000 | | 96.6 | 60-140 | | | |
| 1,2-Dichloroethane | 1020 | 100 | ug/kg | 1000 | | 102 | 55-135 | | | |
| 1,1-Dichloroethene | 987 | 250 | ug/kg | 1000 | | 98.7 | 55-145 | | | |
| cis-1,2-Dichloroethene | 1010 | 100 | ug/kg | 1000 | | 101 | 60-125 | | | |
| trans-1,2-Dichloroethene | 1010 | 100 | ug/kg | 1 0 00 | | 101 | 70-145 | | | |
| 1,2-Dichloropropane | 956 | 100 | ug/kg | 1000 | | 95.6 | 65-130 | | | |
| 1,3-Dichloropropane | 1060 | 100 | ug/kg | 1000 | | 1 0 6 | 65-130 | | | |
| 2,2-Dichloropropane | 677 | 100 | ug/kg | 1000 | | 67.7 | 60-135 | | | |
| 1,1-Dichloropropene | 929 | 100 | ug/kg | 1000 | | 92.9 | 65-130 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Sampled: 09/12/01 Received: 09/12/01

Report Number:

PKI0180

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/01 | | | | | | | | | | |
| LCS Analyzed: 09/19/01 (P1I1401-BS1) | | | | | | | | | | |
| cis-1,3-Dichloropropene | 885 | 100 | ug/kg | 1000 | | 88.5 | 60-125 | | | |
| trans-1,3-Dichloropropene | 882 | 100 | ug/kg | 1000 | | 88.2 | 50-130 | | | |
| Ethylbenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-125 | | | |
| Hexachlorobutadiene | 1030 | 250 | ug/kg | 1000 | | 103 | 60-125 | | | |
| 2-Hexanone | 1110 | 500 | ug/kg | 1000 | | 111 | 25-185 | | | |
| Iodomethane | 1150 | 100 | ug/kg | 1000 | | 115 | 30-155 | | | |
| Isopropylbenzene | 1070 | 100 | ug/kg | 1000 | | 107 | 70-135 | | | |
| p-Isopropyltoluene | 967 | 100 | ug/kg | 1000 | | 96.7 | 65-130 | | | |
| Methylene chloride | 979 | 500 | ug/kg | 1000 | | 97.9 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 1170 | 500 | ug/kg | 1000 | | 117 | 10-175 | | | |
| Naphthalene | 1210 | 250 | ug/kg | 1000 | | 121 | 45-155 | | | |
| n-Propylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 75-135 | | | |
| Styrene | 1070 | 100 | ug/kg | 1000 | | 107 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 1020 | 250 | ug/kg | 1000 | | 102 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 1060 | 100 | ug/kg | 1000 | | 106 | 60-140 | | | |
| Tetrachloroethene | 1120 | 100 | ug/kg | 1000 | | 112 | 65-130 | | | |
| Toluene | 1040 | 100 | ug/kg | 1000 | | 104 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 1080 | 250 | ug/kg | 1000 | | 108 | 60-135 | | | • |
| 1,2,4-Trichlorobenzene | 1070 | 250 | ug/kg | 1000 | | 107 | 55-135 | | | |
| 1,1,1-Trichloroethane | 953 | 100 | ug/kg | 1000 | | 95.3 | 65-135 | | | |
| 1,1,2-Trichloroethane | 1070 | 100 | ug/kg | 1000 | | 107 | 65-130 | | | |
| Trichloroethene | 1030 | 100 | ug/kg | 1000 | | 103 | 70-130 | | | |
| Trichlorofluoromethane | 1140 | 250 | ug/kg | 2000 | | 57.0 | 10-200 | | | |
| 1,2,3-Trichloropropane | 1110 | 500 | ug/kg | 1000 | | 111 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 1040 | 100 | ug/kg | 1000 | | 104 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 66.4 | 25-130 | | | |
| Vinyl chloride | 938 | 250 | ug/kg | 2000 | | 46.9 | 10-200 | | | |
| Xylenes, Total | 3210 | 300 | ug/kg | 3000 | | 107 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 149 | | ug/kg | 125 | | 119 | 70-125 | | | |
| Surrogate: Toluene-d8 | 166 | | ug/kg | 125 | | 133 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 158 | | ug/kg | 125 | | 126 | 70-130 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Report Number: PKI0180

Sampled: 09/12/01

Received: 09/12/01

METHODBLANKOCDATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|--------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/0 | 1_ | | | | | | | | | - |
| LCS Dup Analyzed: 09/19/01 (P11140) | -BSD1) | | | | | | | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | | 68.5 | 5-200 | 34.1 | 35 | |
| Benzene | 904 | 100 | ug/kg | 1000 | | 90.4 | 65-130 | 2.94 | 35 | |
| Bromobenzene | 1040 | 250 | ug/kg | 1000 | | 104 | 60-135 | 7.41 | 35 | |
| Bromochloromethane | 1050 | 250 | ug/kg | 1000 | | 105 | 60-135 | 6.45 | 35 | |
| Bromodichloromethane | 919 | 100 | ug/kg | 1000 | | 91.9 | 30-135 | 1.83 | 35 | |
| Bromoform | 946 | 250 | ug/kg | 1000 | | 94.6 | 60-140 | 7.23 | 35 | |
| Bromomethane | 903 | 250 | ug/kg | 2000 | | 45.2 | 10-200 | 32.2 | 35 | |
| 2-Butanone (MEK) | 835 | 500 | ug/kg | 1000 | | 83.5 | 10-160 | 20.9 | 35 | |
| n-Butylbenzene | 829 | 250 | ug/kg | 1000 | | 82.9 | 65-125 | 12.0 | 35 | |
| sec-Butylbenzene | 891 | 250 | ug/kg | 1000 | | 89.1 | 70-135 | 10.0 | 35 | |
| tert-Butylbenzene | 933 | 250 | ug/kg | 1000 | | 93.3 | 70-130 | 7.93 | 35 | |
| Carbon Disulfide | 647 | 250 | ug/kg | 1000 | | 64.7 | 20-120 | 13.1 | 35 | |
| Carbon tetrachloride | 908 | 250 | ug/kg | 1000 | | 90.8 | 70-140 | 0.996 | 35 | |
| Chlorobenzene | 1060 | 100 | ug/kg | 1000 | | 106 | 70-125 | 2.79 | 35 | |
| Chloroethane | 944 | 250 | ug/kg | 2000 | | 47.2 | 10-200 | 23.1 | 35 | |
| Chloroform | 970 | 100 | ug/kg | 1000 | | 97.0 | 35-135 | 2.44 | 35 | |
| Chloromethane. | 1030 | 250 | ug/kg | 2000 | | 51.5 | 10-200 | 35.9 | 35 | R6 |
| 2-Chlorotoluene | 936 | 250 | ug/kg | 1000 | | 93.6 | 70-135 | 6.31 | 35 | |
| 4-Chlorotoluene | 941 | 250 | ug/kg | 1000 | | 94.1 | 75-135 | 5.88 | 35 | |
| Dibromochloromethane | 1030 | 100 | ug/kg | 1000 | | 103 | 35-135 | 5.59 | 35 | |
| 1,2-Dibromo-3-chloropropane | 881 | 250 | ug/kg | 1000 | | 88.1 | 50-155 | 16.6 | 35 | |
| 1,2-Dibromoethane (EDB) | 1080 | 100 | ug/kg | 1000 | | 108 | 70-130 | 2.74 | 35 | |
| Dibromomethane | 1010 | 100 | ug/kg | 1000 | | 101 | 65-130 | 7.62 | 35 | |
| 1,2-Dichlorobenzene | 976 | 100 | ug/kg | 1000 | | 97.6 | 70-125 | 7.31 | 35 | |
| 1,3-Dichlorobenzene | 973 | 100 | ug/kg | 1000 | | 97.3 | 70-125 | 7.61 | 35 | |
| 1,4-Dichlorobenzene | 1020 | 100 | ug/kg | 1000 | | 102 | 70-135 | 6.64 | 35 | |
| Dichlorodifluoromethane | 736 | 250 | ug/kg | 2000 | | 36.8 | 10-185 | 57.5 | 35 | R6 |
| 1,1-Dichloroethane | 926 | 100 | ug/kg | 1000 | | 92.6 | 60-140 | 4.23 | 35 | |
| 1,2-Dichloroethane | 983 | 100 | ug/kg | 1000 | | 98.3 | 55-135 | 3.69 | 35 | |
| 1,1-Dichloroethene | 912 | 250 | ug/kg | 1000 | | 91.2 | 55-145 | 7.90 | 35 | |
| cis-1,2-Dichloroethene | 974 | 100 | ug/kg | 1000 | | 97.4 | 60-125 | 3.63 | 35 | |
| trans-1,2-Dichloroethene | 966 | 100 | ug/kg | 1000 | | 96.6 | 70-145 | 4.45 | 35 | |
| 1,2-Dichloropropane | 911 | 100 | ug/kg | 1000 | | 91.1 | 65-130 | 4.82 | 35 | |
| 1,3-Dichloropropane | 1020 | 100 | ug/kg | 1000 | | 102 | 65-130 | 3.85 | 35 | |
| 2,2-Dichloropropane | 765 | 100 | ug/kg | 1000 | | 76.5 | 60-135 | 12.2 | 35 | |
| 1,1-Dichloropropene | 886 | 100 | ug/kg | 1000 | | 88.6 | 65-130 | 4.74 | 35 | |

Melissa Evans Project Manager

PKI0180 Page 17 of 39

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Report Number: PKI0180

Sampled: 09/12/01

Received: 09/12/01

NETEOD BLANKOP DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-----------|-----------|-------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/0 | <u>)1</u> | | | | | | | | | |
| LCS Dup Analyzed: 09/19/01 (P11140 | 1-BSD1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 889 | 100 | ug/kg | 1000 | | 88.9 | 60-125 | 0.451 | 35 | |
| trans-1,3-Dichloropropene | 896 | 100 | ug/kg | 1000 | | 89.6 | 50-130 | 1.57 | 35 | |
| Ethylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-125 | 4.83 | 35 | |
| Hexachlorobutadiene | 849 | 250 | ug/kg | 1000 | | 84.9 | 60-125 | 19.3 | 35 | |
| 2-Hexanone | 981 | 500 | ug/kg | 1000 | | 98.1 | 25-185 | 12.3 | 35 | |
| Iodomethane | 1040 | 100 | ug/kg | 1000 | | 104 | 30-155 | 10.0 | 35 | |
| Isopropylbenzene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-135 | 5.77 | 35 | |
| p-Isopropyltoluene | 884 | 100 | ug/kg | 1000 | | 88.4 | 65-130 | 8.97 | 35 | |
| Methylene chloride | 942 | 500 | ug/kg | 1000 | | 94.2 | 60-140 | 3.85 | 35 | |
| 4-Methyl-2-pentanone (MIBK) | 1020 | 500 | ug/kg | 1000 | | 102 | 10-175 | 13.7 | 35 | |
| Naphthalene | 922 | 250 | ug/kg | 1000 | | 92.2 | 45-155 | 27.0 | 35 | |
| n-Propylbenzene | 937 | 100 | ug/kg | 1000 | | 93.7 | 75-135 | 7.50 | 35 | |
| Styrene | 1050 | 100 | ug/kg | 1000 | | 105 | 70-130 | 1.89 | 35 | |
| 1,1,1,2-Tetrachloroethane | 1040 | 250 | ug/kg | 1000 | | 104 | 70-130 | 1.94 | 35 | |
| 1,1,2,2-Tetrachloroethane | 1010 | 100 | ug/kg | 1000 | | 101 | 60-140 | 4.83 | 35 | |
| Tetrachloroethene | 1080 | 100 | ug/kg | 1000 | | 108 | 65-130 | 3.64 | 35 | |
| Toluene | 1010 | 100 | ug/kg | 1000 | | 101 | 70-125 | 2.93 | 35 | |
| 1,2,3-Trichlorobenzene | 872 | 250 | ug/kg | 1000 | | 87.2 | 60-135 | 21.3 | 35 | |
| 1,2,4-Trichlorobenzene | 899 | 250 | ug/kg | 1000 | | 89.9 | 55-135 | 17.4 | 35 | |
| 1,1,1-Trichloroethane | 934 | 100 | ug/kg | 1000 | | 93.4 | 65-135 | 2.01 | 35 | |
| 1,1,2-Trichloroethane | 1040 | 100 | ug/kg | 1000 | | 104 | 65-130 | 2.84 | 35 | |
| Trichloroethene | 971 | 100 | ug/kg | 1000 | | 97.1 | 70-130 | 5.90 | 35 | |
| Trichlorofluoromethane | 1080 | 250 | ug/kg | 2000 | | 54.0 | 10-200 | 5.41 | 35 | |
| 1,2,3-Trichloropropane | 982 | 500 | ug/kg | 1000 | | 98.2 | 60-150 | 12.2 | 35 | |
| 1,2,4-Trimethylbenzene | 972 | 100 | ug/kg | 1000 | | 97.2 | 75-130 | 6.76 | 35 | |
| 1,3,5-Trimethylbenzene | 928 | 100 | ug/kg | 1000 | | 92.8 | 70-130 | 8.46 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | | 76.3 | 25-130 | 13.9 | 35 | |
| Vinyl chloride | 869 | 250 | ug/kg | 2000 | | 43.4 | 10-200 | 7.64 | 35 | |
| Xylenes, Total | 3090 | 300 | ug/kg | 3000 | | 103 | 70-130 | 3.81 | 35 | |
| Surrogate: Dibromofluoromethane | 138 | | ug/kg | 125 | | 110 | 70-125 | | | |
| Surrogate: Toluene-d8 | 152 | | ug/kg | 125 | | 122 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 152 | | ug/kg | 125 | | 122 | 70-130 | | | |

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Report Number:

PKI0180

Sampled: 09/12/01

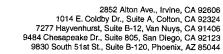
Received: 09/12/01

METHOD BLANKOC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | Reporting | | Spike | Source | | %REC | | RPD | Data |
|---|-----------|-------|-------|-----------|--------------|--------|-----|-------|------------|
| Analyte Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/20/01 (P1I1401-MS1) | | | | Source: P | KI0199-0 | 1 | | | |
| Acetone ND | 1000 | ug/kg | 1000 | ND | 75.8 | 5-200 | | | |
| Benzene 956 | 100 | ug/kg | 1000 | ND | 95.6 | 65-130 | | | |
| Bromobenzene 980 | 250 | ug/kg | 1000 | ND | 98.0 | 60-135 | | | |
| Bromochloromethane 1090 | 250 | ug/kg | 1000 | ND | 109 | 60-135 | | | |
| Bromodichloromethane 1010 | 100 | ug/kg | 1000 | ND | 101 | 30-135 | | | |
| Bromoform 877 | 250 | ug/kg | 1000 | ND | 87 .7 | 60-140 | | | |
| Bromomethane 1640 | 250 | ug/kg | 2000 | ND | 82.0 | 10-200 | | | |
| 2-Butanone (MEK) 806 | 500 | ug/kg | 1000 | ND | 80.6 | 10-160 | | | |
| n-Butylbenzene 1010 | 250 | ug/kg | 1000 | ND | 101 | 65-125 | | | |
| sec-Butylbenzene 960 | 250 | ug/kg | 1000 | ND | 96.0 | 70-135 | | | |
| tert-Butylbenzene 932 | 250 | ug/kg | 1000 | ND | 93.2 | 70-130 | | | |
| Carbon Disulfide 553 | 250 | ug/kg | 1000 | ND | 55.3 | 20-120 | | | |
| Carbon tetrachloride 1120 | 250 | ug/kg | 1000 | ND | 112 | 70-140 | | | |
| Chlorobenzene 1050 | 100 | ug/kg | 1000 | ND | 105 | 75-125 | | | |
| Chloroethane 1440 | 250 | ug/kg | 2000 | ND | 72.0 | 10-200 | | | |
| Chloroform 1040 | 100 | ug/kg | 1000 | ND | 104 | 35-135 | | | |
| Chloromethane 1270 | 250 | ug/kg | 2000 | ND | 63.5 | 10-200 | | | |
| 2-Chlorotoluene 891 | 250 | ug/kg | 1000 | ND | 89.1 | 70-135 | | | |
| 4-Chlorotoluene 897 | 250 | ug/kg | 1000 | ND | 89.7 | 75-135 | | | |
| Dibromochloromethane 969 | 100 | ug/kg | 1000 | ND | 96.9 | 35-135 | | | |
| 1,2-Dibromo-3-chloropropane 576 | 250 | ug/kg | 1000 | ND | 57.6 | 50-155 | | | |
| 1,2-Dibromoethane (EDB) 866 | 100 | ug/kg | 1000 | ND | 86.6 | 70-130 | | | |
| Dibromomethane 1000 | 100 | ug/kg | 1000 | ND | 100 | 65-130 | | | |
| 1,2-Dichlorobenzene 960 | 100 | ug/kg | 1000 | ND | 96.0 | 70-125 | | | |
| 1,3-Dichlorobenzene 969 | 100 | ug/kg | 1000 | ND | 96.9 | 70-125 | | | |
| 1,4-Dichlorobenzene 1010 | 100 | ug/kg | 1000 | ND | 101 | 70-135 | | | |
| Dichlorodifluoromethane 972 | 250 | ug/kg | 2000 | ND | 48.6 | 10-185 | | | |
| 1,1-Dichloroethane 991 | 100 | ug/kg | 1000 | ND | 99.1 | 60-140 | | | |
| 1,2-Dichloroethane 950 | 100 | ug/kg | 1000 | ND | 95.0 | 55-135 | | | |
| 1,1-Dichloroethene 651 | 250 | ug/kg | 1000 | ND | 65.1 | 55-145 | | | |
| cis-1,2-Dichloroethene 1020 | 100 | ug/kg | 1000 | ND | 102 | 60-125 | | | |
| trans-1,2-Dichloroethene 1040 | 100 | ug/kg | 1000 | ND | 104 | 70-145 | | | |
| 1,2-Dichloropropane 941 | 100 | ug/kg | 1000 | ND | 94.1 | 65-130 | | | |
| 1,3-Dichloropropane 841 | 100 | ug/kg | 1000 | ND | 84.1 | 65-130 | | | |
| 2,2-Dichloropropane 1140 | 100 | ug/kg | 1000 | ND | 114 | 60-135 | | | |
| 1,1-Dichloropropene 928 | 100 | ug/kg | 1000 | ND | 92.8 | 65-130 | | | |

Melissa Evans Project Manager



92606 (949) 261-1022 FAX (949) 261-1228 92324 (909) 370-4667 FAX (809) 370-1046 91406 (818) 779-1844 FAX (818) 779-1843 92123 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Del Mar Analytical

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Sampled: 09/12/01 Received: 09/12/01

Report Number:

PKI0180

METHOD BLANKQC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|--------------|-----------|-------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/1 | 4/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/20/01 (1 | P111401-MS1) | | | | Source: P | KI0199-0 | 1 | | | |
| cis-1,3-Dichloropropene | 943 | 100 | ug/kg | 1000 | ND | 94.3 | 60-125 | | | |
| trans-1,3-Dichloropropene | 795 | 100 | ug/kg | 1000 | ND | 79.5 | 50-130 | | | |
| Ethylbenzene | 1020 | 100 | ug/kg | 1000 | ND | 102 | 70-125 | | | |
| Hexachlorobutadiene | 1380 | 250 | ug/kg | 1000 | ND | 138 | 60-125 | | | M1 |
| 2-Hexanone | 785 | 500 | ug/kg | 1000 | ND | 78.5 | 25-185 | | | |
| Iodomethane | 710 | 100 | ug/kg | 1000 | ND | 71.0 | 30-155 | | • | |
| Isopropylbenzene | 1080 | 100 | ug/kg | 1000 | ND | 108 | 70-135 | | | |
| p-Isopropyltoluene | 975 | 100 | ug/kg | 1000 | ND | 97.5 | 65-130 | | | |
| Methylene chloride | 659 | 500 | ug/kg | 1000 | ND | 65.9 | 60-140 | | | |
| 4-Methyl-2-pentanone (MIBK) | 734 | 500 | ug/kg | 1000 | ND | 73.4 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | ND | | 55-135 | | | |
| Naphthalene | 710 | 250 | ug/kg | 1000 | ND | 71.0 | 45-155 | | | |
| n-Propylbenzene | 902 | 100 | ug/kg | 1000 | ND | 90.2 | 75-135 | | | |
| Styrene | 1030 | 100 | ug/kg | 1000 | ND | 103 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 1120 | 250 | ug/kg | 1000 | ND | 112 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 597 | 100 | ug/kg | 1000 | ND | 59.7 | 60-140 | | | |
| Tetrachloroethene | 1030 | 100 | ug/kg | 1000 | ND | 103 | 65-130 | | | |
| Toluene | 952 | 100 | ug/kg | 1000 | ND | 95.2 | 70-125 | | | |
| 1,2,3-Trichlorobenzene | 809 | 250 | ug/kg | 1000 | ND | 80.9 | 60-135 | | | |
| 1,2,4-Trichlorobenzene | 898 | 250 | ug/kg | 1000 | ND | 89.8 | 55-135 | | | |
| 1,1,1-Trichloroethane | 1110 | 100 | ug/kg | 1000 | ND | 111 | 65-135 | | | |
| 1,1,2-Trichloroethane | 885 | 100 | ug/kg | 1000 | ND | 88.5 | 65-130 | | | |
| Trichloroethene | 1170 | 100 | ug/kg | 1000 | ND | 117 | 70-130 | | | |
| Trichlorofluoromethane | 1860 | 250 | ug/kg | 2000 | ND | 93.0 | 10-200 | | | |
| 1,2,3-Trichloropropane | 692 | 500 | ug/kg | 1000 | ND | 69.2 | 60-150 | | | |
| 1,2,4-Trimethylbenzene | 955 | 100 | ug/kg | 1000 | ND | 95.5 | 75-130 | | | |
| 1,3,5-Trimethylbenzene | 908 | 100 | ug/kg | 1000 | ND | 90.8 | 70-130 | | | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | 24.7 | 25-130 | | | |
| Vinyl chloride | 2000 | 250 | ug/kg | 2000 | ND | 100 | 10-200 | | | |
| Xylenes, Total | 3110 | 300 | ug/kg | 3000 | ND | 104 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 137 | | ug/kg | 125 | | 110 | 70-125 | | | |
| Surrogate: Toluene-d8 | 137 | | ug/kg | 125 | | 110 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 135 | | ug/kg | 125 | | 108 | 70-130 | | | |



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Report Number: PKI0180 Sampled: 09/12/01

Received: 09/12/01

MEDROD BLANKOYO DALA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/ | <u>01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/20/01 | (P1I1401-M | SD1) | | | Source: P | KI0199-0 |)1 | | | |
| Acetone | ND | 1000 | ug/kg | 1000 | ND | 66.5 | 5-200 | 13.1 | 35 | |
| Benzene | 952 | 100 | ug/kg | 1000 | ND | 95.2 | 65-130 | 0.419 | 35 | |
| Bromobenzene | 1030 | 250 | ug/kg | 1000 | ND | 103 | 60-135 | 4.98 | 35 | |
| Bromochloromethane | 1070 | 250 | ug/kg | 1000 | ND | 107 | 60-135 | 1.85 | 35 | |
| Bromodichloromethane | 1040 | 100 | ug/kg | 1000 | ND | 104 | 30-135 | 2.93 | 35 | |
| Bromoform | 878 | 250 | ug/kg | 1000 | ND | 87.8 | 60-140 | 0.114 | 35 | |
| Bromomethane | 1250 | 250 | ug/kg | 2000 | ND | 62.5 | 10-200 | 27.0 | 35 | |
| 2-Butanone (MEK) | 753 | 500 | ug/kg | 1000 | ND | 75.3 | 10-160 | 6.80 | 35 | |
| n-Butylbenzene | 982 | 250 | ug/kg | 1000 | ND | 98.2 | 65-125 | 2.81 | 35 | |
| sec-Butylbenzene | 969 | 250 | ug/kg | 1000 | ND | 96.9 | 70-135 | 0.933 | 35 | |
| tert-Butylbenzene | 955 | 250 | ug/kg | 1000 | ND | 95.5 | 70-130 | 2.44 | 35 | |
| Carbon Disulfide | 843 | 250 | ug/kg | 1000 | ND | 84.3 | 20-120 | 41.5 | 35 | R4 |
| Carbon tetrachloride | 1110 | 250 | ug/kg | 1000 | ND | 111 | 70-140 | 0.897 | 35 | |
| Chlorobenzene | 1070 | 100 | ug/kg | 1000 | ND | 107 | 75-125 | 1.89 | 35 | |
| Chloroethane | 1140 | 250 | ug/kg | 2000 | ND | 57.0 | 10-200 | 23.3 | 35 | |
| Chloroform | 1060 | 100 | ug/kg | 1000 | ND | 106 | 35-135 | 1.90 | 35 | |
| Chloromethane | 1120 | 250 | ug/kg | 2000 | ND | 56.0 | 10-200 | 12.6 | 35 | |
| 2-Chlorotoluene | 917 | 250 | ug/kg | 1000 | ND | 91.7 | 70-135 | 2.88 | 35 | |
| 4-Chlorotoluene | 923 | 250 | ug/kg | 1000 | ND | 92.3 | 75-135 | 2.86 | 35 | |
| Dibromochloromethane | 974 | 100 | ug/kg | 1000 | ND | 97.4 | 35-135 | 0.515 | 35 | |
| 1,2-Dibromo-3-chloropropane | 605 | 250 | ug/kg | 1000 | ND | 60.5 | 50-155 | 4.91 | 35 | |
| 1,2-Dibromoethane (EDB) | 903 | 100 | ug/kg | 1000 | ND | 90.3 | 70-130 | 4.18 | 35 | |
| Dibromomethane | 984 | 100 | ug/kg | 1000 | ND | 98.4 | 65-130 | 1.61 | 35 | |
| 1,2-Dichlorobenzene | 943 | 100 | ug/kg | 1000 | ND | 94.3 | 70-125 | 1.79 | 35 | |
| 1,3-Dichlorobenzene | 959 | 100 | ug/kg | 1000 | ND | 95.9 | 70-125 | 1.04 | 35 | |
| 1,4-Dichlorobenzene | 983 | 100 | ug/kg | 1000 | ND | 98.3 | 70-135 | 2.71 | 35 | • |
| Dichlorodifluoromethane | 968 | 250 | ug/kg | 2000 | ND | 48.4 | 10-185 | 0.412 | 35 | |
| 1,1-Dichloroethane | 1040 | 100 | ug/kg | 1000 | ND | 104 | 60-140 | 4.83 | 35 | |
| 1,2-Dichloroethane | 966 | 100 | ug/kg | 1000 | ND | 96.6 | 55-135 | 1.67 | 35 | |
| 1,1-Dichloroethene | 757 | 250 | ug/kg | 1000 | ND | 75.7 | 55-145 | 15.1 | 35 | |
| cis-1,2-Dichloroethene | 1030 | 100 | ug/kg | 1000 | ND | 103 | 60-125 | 0.976 | 35 | |
| trans-1,2-Dichloroethene | 1100 | 100 | ug/kg | 1000 | ND | 110 | 70-145 | 5.61 | 35 | |
| 1,2-Dichloropropane | 942 | 100 | ug/kg | 1000 | ND | 94.2 | 65-130 | 0.106 | 35 | |
| 1,3-Dichloropropane | 861 | 100 | ug/kg | 1000 | ND | 86.1 | 65-130 | 2.35 | -35 | |
| 2,2-Dichloropropane | 1090 | 100 | ug/kg | 1000 | ND | 109 | 60-135 | 4.48 | 35 | |
| 1,1-Dichloropropene | 934 | 100 | ug/kg | 1000 | ND | 93.4 | 65-130 | 0.644 | 35 | |

Melissa Evans Project Manager

PKI0180 Page 21 of 39

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Sampled: 09/12/01

Report Number: PKI0180

Received: 09/12/01

EANS HOODBEANKOODELA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1401 Extracted: 09/14/0 | <u>01</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/20/01 | (P1I1401-M | SD1) | | | Source: P | KI0199-0 | 1 | | | |
| cis-1,3-Dichloropropene | 945 | 100 | ug/kg | 1000 | ND | 94.5 | 60-125 | 0.212 | 35 | |
| trans-1,3-Dichloropropene | 859 | 100 | ug/kg | 1000 | ND | 85.9 | 50-130 | 7.74 | 35 | |
| Ethylbenzene | 1050 | 100 | ug/kg | 1000 | ND | 105 | 70-125 | 2.90 | 35 | |
| Hexachlorobutadiene | 1420 | 250 | ug/kg | 1000 | ND | 142 | 60-125 | 2.86 | 35 | Ml |
| 2-Hexanone | 664 | 500 | ug/kg | 1000 | ND | 66.4 | 25-185 | 16.7 | 35 | |
| Iodomethane | 886 | 100 | ug/kg | 1000 | ND | 88.6 | 30-155 | 22.1 | 35 | |
| lsopropylbenzene | 1050 | 100 | ug/kg | 1000 | ND | 105 | 70-135 | 2.82 | 35 | |
| p-Isopropyltoluene | 969 | 100 | ug/kg | 1000 | ND | 96.9 | 65-130 | 0.617 | 35 | |
| Methylene chloride | 1030 | 500 | ug/kg | 1000 | ND | 103 | 60-140 | 43.9 | 35 | R4 |
| 4-Methyl-2-pentanone (MIBK) | 694 | 500 | ug/kg | 1000 | ND | 69.4 | 10-175 | 5.60 | 35 | • |
| Methyl-tert-butyl Ether (MTBE) | ND | 250 | ug/kg | | ND | | 55-135 | 12.8 | 35 | |
| Naphthalene | 736 | 250 | ug/kg | 1000 | ND | 73.6 | 45-155 | 3.60 | 35 | |
| n-Propylbenzene | 949 | 100 | ug/kg | 1000 | ND | 94.9 | 75-135 | 5.08 | 35 | |
| Styrene | 1020 | 100 | ug/kg | 1000 | ND | 102 | 70-130 | 0.976 | 35 | |
| 1,1,1,2-Tetrachloroethane | 1130 | 250 | ug/kg | 1000 | ND | 113 | 70-130 | 0.889 | 35 | |
| 1,1,2,2-Tetrachloroethane | 580 | 100 | ug/kg | 1000 | ND | 58.0 | 60-140 | 2.89 | 35 | M2 |
| Tetrachloroethene | 1070 | 100 | ug/kg | 1000 | ND | 107 | 65-130 | 3.81 | 35 | |
| Toluene | 1020 | 100 | ug/kg | 1000 | ND | 102 | 70-125 | 6.90 | 35 | |
| 1,2,3-Trichlorobenzene | 838 | 250 | ug/kg | 1000 | ND | 83.8 | 60-135 | 3.52 | 35 | |
| 1,2,4-Trichlorobenzene | 923 | 250 | ug/kg | 1000 | ND | 92.3 | 55-135 | 2.75 | 35 | |
| 1,1,1-Trichloroethane | 1110 | 100 | ug/kg | 1000 | ND | 111 | 65-135 | 0.00 | 35 | |
| 1,1,2-Trichloroethane | 937 | 100 | ug/kg | 1000 | ND | 93.7 | 65-130 | 5.71 | 35 | |
| Trichloroethene | 1210 | 100 | ug/kg | 1000 | ND | 121 | 70-130 | 3.36 | 35 | |
| Trichlorofluoromethane | 1400 | 250 | ug/kg | 2000 | ND | 70.0 | 10-200 | 28.2 | 35 | |
| 1,2,3-Trichloropropane | 743 | 500 | ug/kg | 1000 | ND | 74.3 | 60-150 | 7.11 | 35 | |
| 1,2,4-Trimethylbenzene | 954 | 100 | ug/kg | 1000 | ND | 95.4 | 75-130 | 0.105 | 35 | |
| 1,3,5-Trimethylbenzene | 923 | 100 | ug/kg | 1000 | ND | 92.3 | 70-130 | 1.64 | 35 | |
| Vinyl acetate | ND | 1200 | ug/kg | 1000 | ND | 20.0 | 25-130 | 21.0 | 35 | M2 |
| Vinyl chloride | 1590 | 250 | ug/kg | 2000 | ND | 79.5 | 10-200 | 22.8 | 35 | |
| Xylenes, Total | 3200 | 300 | ug/kg | 3000 | ND | 107 | 70-130 | 2.85 | 35 | |
| Surrogate: Dibromofluoromethane | 136 | | ug/kg | 125 | | 109 | 70-125 | | | |
| Surrogate: Toluene-d8 | 156 | | ug/kg | 125 | | 125 | 50-135 | | | |
| Surrogate: 4-Bromofluorobenzene | 152 | | ug/kg | 125 | | 122 | 70-130 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

Attention: Jim Clarke

Report Number: PKI0180 Received: 09/12/01

Miking (d) MBJ HANKKOJOZI) SĄTĄ

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|-------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2706 Extracted: 09/26 | <u>5/01</u> | | | | | | | | | |
| Blank Analyzed: 09/26/01 (P1I2706- | -BLK1) | | | | | | | | | |
| Acetone | ND | 20 | ug/l | | | | | | | |
| Benzene | ND | 2.0 | ug/l | | | | | | | |
| Bromobenzene | ND | 5.0 | ug/l | | | | | | | |
| Bromochloromethane | ND | 5.0 | ug/l | | | | | | | |
| Bromodichloromethane | ND | 2.0 | ug/l | | | | | | | |
| Bromoform | ND | 5.0 | ug/l | | | | | | | |
| Bromomethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Butanone (MEK) | ND | 10 | ug/l | | | | | | | |
| n-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | ug/l | | | | | | | |
| Carbon Disulfide | ND | 5.0 | ug/l | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | ug/l | | | | | | | |
| Chlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Chloroethane | ND | 5.0 | ug/l | | | | | | | |
| Chloroform | ND | 2.0 | ug/l | | | | | | | |
| Chloromethane | ND | 5.0 | ug/l | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | ug/l | | | | | | | |
| Dibromochloromethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/l | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/l | | | | | | | |
| Dibromomethane | ND | 2.0 | ug/l | | | | | • | | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/l | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/l | | | | | | | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/l | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 1,3-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | ug/l | | | | | | | |
| | | | _ | | | | | | | |

Melissa Evans Project Manager

PKI0180 Page 23 of 39



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-01SD

PKI0180

Sampled: 09/12/01

Received: 09/12/01

VIETHOD BLANKOC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|--------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2706 Extracted: 09/26/0 | 1_ | | | | | | | | | |
| Blank Analyzed: 09/26/01 (P1I2706-BI | .K1) | | | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| cis-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| trans-1,3-Dichloropropene | ND | 2.0 | ug/l | | | | | | | |
| Ethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | ug/l | | | | | | | |
| 2-Hexanone | ND | 10 | ug/l | | | | | | | |
| Iodomethane | ND | 2.0 | ug/l | | | | | | | |
| lsopropylbenzene | ND | 2.0 | ug/l | | | | | | | |
| p-Isopropyltoluene | ND | 2.0 | ug/l | | | | | | | |
| Methylene chloride | ND | 5.0 | ug/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ug/l | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 5.0 | ug/l | | | | | | | |
| Naphthalene | ND | 5.0 | ug/l | | | | | | | |
| n-Propylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Styrene | ND | 2.0 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/l | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/l | | | | | | | |
| Tetrachloroethene | ND | 2.0 | ug/l | | | | | | | |
| Toluene | ND | 2.0 | ug/l | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/l | | | | | | | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/l | | | | | | | |
| Trichloroethene | ND | 2.0 | ug/l | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | ug/l | | | | | | | |
| 1,2,3-Trichloropropane | ND | 10 | ug/l | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/l | | | | | | | |
| Vinyl acetate | ND | 25 | ug/l | | | | | | | |
| Vinyl chloride | ND | 5.0 | ug/l | | | | | | | |
| Xylenes, Total | ND | 10 | ug/l | | | | | | | |
| Surrogate: Dibromofluoromethane | 27.2 | | ug/l | 25.0 | | 109 | 80-120 | | | |
| Surrogate: Toluene-d8 | 25.5 | | ug/l | 25.0 | | 102 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 23.2 | | ug/l | 25.0 | | 92.8 | 80-120 | | | |

Melissa Evans Project Manager

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Report Number:

PKI0180

Sampled: 09/12/01

Received: 09/12/01

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|----------------------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2706 Extracted: 09/26/01 | <u>L</u> | | | | | | | | | |
| LCS Analyzed: 09/26/01 (P112706-BS1 |) | | | | | | | | | |
| Acetone | 25.5 | 20 | ug/l | 25.0 | | 102 | 30-200 | | | |
| Benzene | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 80-120 | | | |
| Bromobenzene | 27.7 | 5.0 | ug/l | 25.0 | | 111 | 80-120 | | | |
| Bromochloromethane | 28.3 | 5.0 | ug/l | 25.0 | | 113 | 80-120 | | | |
| Bromodichloromethane | 27.5 | 2.0 | ug/l | 25.0 | | 110 | 80-130 | | | |
| Bromoform | 32.9 | 5.0 | ug/l | 25.0 | | 132 | 60-140 | | | |
| Bromomethane | 27.3 | 5.0 | ug/l | 25.0 | | 109 | 60-150 | | | |
| 2-Butanone (MEK) | 23.9 | 10 | ug/l | 25.0 | | 95.6 | 30-185 | | | |
| n-Butylbenzene | 22.3 | 5.0 | ug/l | 25.0 | | 89.2 | 75-130 | | | |
| sec-Butylbenzene | 23.3 | 5.0 | ug/l | 25.0 | | 93.2 | 80-125 | | | |
| tert-Butylbenzene | 24.1 | 5.0 | ug/l | 25.0 | | 96.4 | 80-120 | | | |
| Carbon Disulfide | 21.4 | 5.0 | ug/l | 25.0 | | 85.6 | 65-120 | | | |
| Carbon tetrachloride | 30.4 | 5.0 | ug/l | 25.0 | | 122 | 75-150 | | | |
| Chlorobenzene | 2 7 .7 | 2.0 | ug/l | 25.0 | | 111 | 80-120 | | | |
| Chloroethane | 22.6 | 5.0 | ug/l | 25.0 | | 90.4 | 80-125 | | | |
| Chloroform | 26. 7 | 2.0 | ug/l | 25.0 | | 107 | 80-120 | | | |
| Chloromethane | 19.5 | 5.0 | ug/l | 25.0 | | 78.0 | 60-125 | | | |
| 2-Chlorotoluene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| 4-Chlorotoluene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| Dibromochloromethane | 32.8 | 2.0 | ug/l | 25.0 | | 131 | 70-150 | | | |
| 1,2-Dibromo-3-chloropropane | 33.8 | 5.0 | ug/l | 25.0 | | 135 | 50-145 | | | |
| 1,2-Dibromoethane (EDB) | 29.5 | 2.0 | ug/l | 25.0 | | 118 | 75-120 | | | |
| Dibromomethane | 28.8 | 2.0 | ug/l | 25.0 | | 115 | 80-120 | | | |
| 1,2-Dichlorobenzene | 26.3 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | | | |
| 1,3-Dichlorobenzene | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| 1,4-Dichlorobenzene | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| Dichlorodifluoromethane | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 25-140 | | | |
| 1,1-Dichloroethane | 24.6 | 2.0 | ug/l | 25.0 | | 98.4 | 80-120 | | | |
| 1,2-Dichloroethane | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| 1,1-Dichloroethene | 27.1 | 5.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| cis-1,2-Dichloroethene | 25.5 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | | | |
| trans-1,2-Dichloroethene | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| 1,2-Dichloropropane | 23.3 | 2.0 | ug/l | 25.0 | | 93.2 | 80-120 | | | |
| 1,3-Dichloropropane | 26.4 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| 2,2-Dichloropropane | 27.3 | 2.0 | ug/l | 25.0 | | 109 | 75-135 | | | |
| 1,1-Dichloropropene | 24.0 | 2.0 | ug/l | 25.0 | | 96.0 | 80-120 | | | |
| | | | | | | | | | | |

Melissa Evans Project Manager

PKI0180 Page 25 of 39



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Report Number: PKI0180

Sampled: 09/12/01

Received: 09/12/01

METHOD BLANK QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|----------|-----------|-------|-------|--------|------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2706 Extracted: 09/26/03 | <u>L</u> | | | | | | | | | |
| LCS Analyzed: 09/26/01 (P1I2706-BS1) |) | | | | | | | | | |
| cis-1,3-Dichloropropene | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | | | |
| trans-1,3-Dichloropropene | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| Ethylbenzene | 26.6 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| Hexachlorobutadiene | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 60-145 | | | |
| 2-Hexanone | 26.0 | 10 | ug/l | 25.0 | | 104 | 50-170 | | | |
| Iodomethane | 30.6 | 2.0 | ug/l | 25.0 | | 122 | 40-155 | | | |
| Isopropyłbenzene | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | | | |
| p-Isopropyltoluene | 23.4 | 2.0 | ug/l | 25.0 | | 93.6 | 80-120 | | | |
| Methylene chloride | 25.9 | 5.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| 4-Methyl-2-pentanone (MIBK) | 29.0 | 10 | ug/l | 25.0 | | 116 | 70-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 25.9 | 5.0 | ug/l | 25.0 | | 104 | 75-135 | | | |
| Naphthalene | 29.9 | 5.0 | ug/l | 25.0 | | 120 | 70-130 | | | |
| n-Propylbenzene | 24.4 | 2.0 | ug/l | 25.0 | | 97.6 | 80-120 | | | |
| Styrene | 27.1 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | | | |
| 1,1,1,2-Tetrachloroethane | 30.5 | 5.0 | ug/l | 25.0 | | 122 | 65-150 | | | |
| 1,1,2,2-Tetrachloroethane | 28.4 | 2.0 | ug/l | 25.0 | | 114 | 70-130 | | | |
| Tetrachloroethene | 29.2 | 2.0 | ug/l | 25.0 | | 117 | 80-125 | | | |
| Toluene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 25.1 | 5.0 | ug/l | 25.0 | | 100 | 75-125 | | | |
| 1,2,4-Trichlorobenzene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 80-120 | | | |
| 1,1,1-Trichloroethane | 28.4 | 2.0 | ug/l | 25.0 | | 114 | 80-120 | | | |
| 1,1,2-Trichloroethane | 27.9 | 2.0 | ug/l | 25.0 | | 112 | 80-120 | | | |
| Trichloroethene | 26.0 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | | | |
| Trichlorofluoromethane | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 75-150 | | | |
| 1,2,3-Trichloropropane | 27.7 | 10 | ug/l | 25.0 | | 111 | 65-135 | | | |
| 1,2,4-Trimethylbenzene | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | | | |
| 1,3,5-Trimethylbenzene | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | | | |
| Vinyl acetate | 27.4 | 25 | ug/l | 25.0 | | 110 | 40-120 | | | |
| Vinyl chloride | 27.2 | 5.0 | ug/l | 25.0 | | 109 | 80-120 | | | |
| Xylenes, Total | 79.7 | 10 | ug/l | 75.0 | | 106 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 27.6 | | ug/l | 25.0 | | 110 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.9 | | ug/l | 25.0 | | 108 | 80~120 | | | |
| Surrogate: 4-Bromofluorobenzene | 24.0 | | ug/l | 25.0 | | 96.0 | 80-120 | | | |



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 7

Report Number:

70211-0-01SD

PKI0180

Sampled: 09/12/01

Received: 09/12/01

METHOD BLANKIOC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------|-------------|-----------|-------------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2706 Extracted: 09 | /26/01 | | | | | | | | | |
| LCS Dup Analyzed: 09/26/01 (P1 | I2706-BSD1) | | | | | | | | | |
| Acetone | 35.9 | 20 | ug/l | 25.0 | | 144 | 30-200 | 33.9 | 20 | R6 |
| Benzene | 23.2 | 2.0 | ug/l | 25.0 | | 92.8 | 80-120 | 0.430 | 20 | |
| Bromobenzene | 27.4 | 5.0 | ug/l | 25.0 | | 110 | 80-120 | 1.09 | 20 | |
| Bromochloromethane | 28.9 | 5.0 | ug/l | 25.0 | | 116 | 80-120 | 2.10 | 20 | |
| Bromodichloromethane | 28.5 | 2.0 | ug/l | 25.0 | | 114 | 80-130 | 3.57 | 20 | |
| Bromoform | 35.0 | 5.0 | ug/l | 25.0 | | 140 | 60-140 | 6.19 | 20 | |
| Bromomethane | 27.4 | 5.0 | ug/l | 25.0 | | 110 | 60-150 | 0.366 | 20 | |
| 2-Butanone (MEK) | 27.3 | 10 | ug/l | 25.0 | | 109 | 30-185 | 13.3 | 20 | |
| n-Butylbenzene | 22.7 | 5.0 | ug/l | 25.0 | | 90.8 | 75-130 | 1.78 | 20 | |
| sec-Butylbenzene | 23.4 | 5.0 | ug/l | 25.0 | | 93.6 | 80-125 | 0.428 | 20 | |
| tert-Butylbenzene | 24.5 | 5.0 | ug/l | 25.0 | | 98.0 | 80-120 | 1.65 | 20 | |
| Carbon Disulfide | 20.8 | 5.0 | ug/l | 25.0 | | 83.2 | 65-120 | 2.84 | 20 | |
| Carbon tetrachloride | 30.9 | 5.0 | ug/l | 25.0 | | 124 | 75-150 | 1.63 | 20 | |
| Chlorobenzene | 28.1 | 2.0 | ug/l | 25.0 | | 112 | 80-120 | 1.43 | 20 | |
| Chloroethane | 22.4 | 5.0 | ug/l | 25.0 | | 89.6 | 80-125 | 0.889 | 20 | |
| Chloroform | 26.7 | 2.0 | ug/l | 25.0 | | 107 | 80-120 | 0.00 | 20 | |
| Chloromethane | 18.9 | 5.0 | ug/l | 25.0 | | 75.6 | 60-125 | 3.13 | 20 | |
| 2-Chlorotoluene | 24.8 | 5.0 | ug/l | 25.0 | | 99.2 | 80-120 | 0.00 | 20 | |
| 4-Chlorotoluene | 24.7 | 5.0 | ug/l | 25.0 | | 98.8 | 80-120 | 0.404 | 20 | |
| Dibromochloromethane | 33.1 | 2.0 | ug/l | 25.0 | | 132 | 70-150 | 0.910 | 20 | |
| 1,2-Dibromo-3-chloropropane | 35.5 | 5.0 | ug/l | 25.0 | | 142 | 50-145 | 4.91 | 20 | |
| 1,2-Dibromoethane (EDB) | 29.8 | 2.0 | ug/l | 25.0 | | 119 | 75-120 | 1.01 | 20 | |
| Dibromomethane | 28.8 | 2.0 | ug/l | 25.0 | | 115 | 80-120 | 0.00 | 20 | |
| 1,2-Dichlorobenzene | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 0.758 | 20 | |
| 1,3-Dichlorobenzene | 26.1 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 1.16 | 20 | |
| 1,4-Dichlorobenzene | 27.0 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 0.00 | 20 | |
| Dichlorodifluoromethane | 26.6 | 5.0 | ug/l | 25.0 | | 106 | 25-140 | 2.23 | 20 | |
| 1,1-Dichloroethane | 24.5 | 2.0 | ug/l | 25.0 | | 98.0 | 80-120 | 0.407 | 20 | |
| 1,2-Dichloroethane | 27.2 | 2.0 | ug/l | 25.0 | | 109 | 80-120 | 1.11 | 20 | |
| 1,1-Dichloroethene | 26.9 | 5.0 | ug/l | 25.0 | | 108 | 80-120 | 0.741 | 20 | |
| cis-1,2-Dichloroethene | 25.2 | 2.0 | ug/l | 25.0 | | 101 | 80-120 | 1.18 | 20 | |
| trans-1,2-Dichloroethene | 25.9 | 2.0 | ug/l | 25.0 | | 104 | 80-120 | 0.769 | 20 | |
| 1,2-Dichloropropane | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 80-120 | 0.855 | 20 | |
| 1,3-Dichloropropane | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 80-120 | 1.50 | 20 | |
| 2,2-Dichloropropane | 25.3 | 2.0 | ug/l | 25.0 | | 101 | 75-135 | 7.60 | 20 | |
| 1,1-Dichloropropene | 23.8 | 2.0 | ug/l | 25.0 | | 95.2 | 80-120 | 0.837 | 20 | |
| | | 2.0 | E/1 | 25.0 | | 93.4 | 30-120 | 0.657 | 20 | |

Melissa Evans Project Manager

PKI0180 Page 27 of 39

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

Attention: Jim Clarke

Report Number:

PKI0180

Received: 09/12/01

TYTET HOD BLANKQC DATA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|----------|-----------|--------------|-------|--------|------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2706 Extracted: 09/26/ | 01 | | | | | | | | | |
| LCS Dup Analyzed: 09/26/01 (P1I270 | 06-BSD1) | | | | | | | | | |
| cis-1,3-Dichloropropene | 25.4 | 2.0 | ug/l | 25.0 | | 102 | 80-120 | 1.56 | 20 | |
| trans-1,3-Dichloropropene | 26.9 | 2.0 | ug/l | 25.0 | | 108 | 80-120 | 1.50 | 20 | |
| Ethylbenzene | 26.8 | 2.0 | ug/l | 25.0 | | 107 | 80-120 | 0.749 | 20 | |
| Hexachlorobutadiene | 25.3 | 5.0 | ug/l | 25.0 | | 101 | 60-145 | 1.59 | 20 | |
| 2-Hexanone | 31.7 | 10 | ug/l | 25.0 | | 127 | 50-170 | 19.8 | 20 | |
| Iodomethane | 30.3 | 2.0 | ug/l | 25.0 | | 121 | 40-155 | 0.985 | 20 | |
| Isopropylbenzene | 26.5 | 2.0 | ug/l | 25.0 | | 106 | 80-120 | 0.00 | 20 | |
| p-Isopropyltoluene | 23.5 | 2.0 | ug/l | 25.0 | | 94.0 | 80-120 | 0.426 | 20 | |
| Methylene chloride | 24.9 | 5.0 | ug/l | 25.0 | | 99.6 | 80-120 | 3.94 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 30.9 | 10 | ug/l | 25.0 | | 124 | 70-140 | 6.34 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 26.4 | 5.0 | ug/l | 25.0 | | 106 | 75-135 | 1.91 | 20 | |
| Naphthalene | 30.6 | 5.0 | ug/l | 25.0 | | 122 | 70-130 | 2.31 | 20 | |
| n-Propylbenzene | 24.8 | 2.0 | ug/l | 25.0 | | 99.2 | 80-120 | 1.63 | 20 | |
| Styrene | 27.2 | 2.0 | ug/ 1 | 25.0 | | 109 | 80-120 | 0.368 | 20 | |
| 1,1,1,2-Tetrachloroethane | 31.7 | 5.0 | ug/l | 25.0 | | 127 | 65-150 | 3.86 | 20 | |
| 1,1,2,2-Tetrachloroethane | 29.5 | 2.0 | ug/l | 25.0 | | 118 | 70-130 | 3.80 | 20 | |
| Tetrachloroethene | 29.3 | 2.0 | ug/l | 25.0 | | 117 | 80-125 | 0.342 | 20 | |
| Toluene | 25.8 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 0.772 | 20 | |
| 1,2,3-Trichlorobenzene | 25,0 | 5.0 | ug/l | 25.0 | | 100 | 75-125 | 0.399 | 20 | |
| 1,2,4-Trichlorobenzene | 25.2 | 5.0 | ug/l | 25.0 | | 101 | 80-120 | 1.60 | 20 | |
| 1,1,1-Trichloroethane | 28.0 | 2.0 | ug/l | 25.0 | | 112 | 80-120 | 1.42 | 20 | |
| 1,1,2-Trichloroethane | 28.3 | 2.0 | ug/l | 25.0 | | 113 | 80-120 | 1.42 | 20 | |
| Trichloroethene | 26.2 | 2.0 | ug/l | 25.0 | | 105 | 80-120 | 0.766 | 20 | |
| Trichlorofluoromethane | 21.6 | 5.0 | ug/l | 25.0 | | 86.4 | 75-150 | 13.8 | 20 | |
| 1,2,3-Trichloropropane | 28.8 | 10 | ug/l | 25.0 | | 115 | 65-135 | 3.89 | 20 | |
| 1,2,4-Trimethylbenzene | 25.7 | 2.0 | ug/l | 25.0 | | 103 | 80-120 | 1.96 | 20 | |
| 1,3,5-Trimethylbenzene | 24.9 | 2.0 | ug/l | 25.0 | | 99.6 | 80-120 | 1.62 | 20 | |
| Vinyl acetate | 27.8 | 25 | ug/l | 25.0 | | 111 | 40-120 | 1.45 | 20 | |
| Vinyl chloride | 27.4 | 5.0 | ug/l | 25.0 | | 110 | 80-120 | 0.733 | 20 | |
| Xylenes, Total | 80.0 | 10 | ug/l | 75.0 | | 107 | 80-120 | 0.376 | 20 | |
| Surrogate: Dibromofluoromethane | 27.3 | | ug/l | 25.0 | | 109 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.7 | | ug/l | 25.0 | | 107 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 24.5 | | ug/l | 25.0 | | 98.0 | 80-120 | | | |





Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Report Number:

PKI0180

Sampled: 09/12/01

Received: 09/12/01

MDH HODBESKKOJE DADA

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------------------------------|--------------|-----------|--------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2706 Extracted: 09/26 | 6/01 | | | | | | | | | |
| Matrix Spike Analyzed: 09/26/01 (F | P112706-MS1) | | | | Source: P | KI0180-1 | 15 | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 58.0 | 5-200 | | | |
| Benzene | 21.4 | 2.0 | ug/l | 25.0 | ND | 85.6 | 80-120 | | | |
| Bromobenzene | 26.9 | 5.0 | ug/l | 25.0 | ND | 108 | 80-120 | | | |
| Bromochloromethane | 25.6 | 5.0 | ug/l | 25.0 | ND | 102 | 60-135 | | | |
| Bromodichloromethane | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 80-120 | | | |
| Bromoform | 28.5 | 5.0 | ug/l | 25.0 | ND | 114 | 40-140 | | | |
| Bromomethane | 23.4 | 5.0 | ug/l | 25.0 | ND | 93.6 | 25-165 | | | |
| 2-Butanone (MEK) | 19.6 | 10 | ug/l | 25.0 | ND | 78.4 | 10-160 | | | |
| n-Butylbenzene | 21.6 | 5.0 | ug/l | 25.0 | ND | 86.4 | 75-135 | | | |
| sec-Butylbenzene | 22.9 | 5.0 | ug/l | 25.0 | ND | 91.6 | 80-135 | | | |
| tert-Butylbenzene | 24.2 | 5.0 | ug/l | 25.0 | ND | 96.8 | 80-125 | | | |
| Carbon Disulfide | 19.1 | 5.0 | ug/l | 25.0 | ND | 76.4 | 20-120 | | | |
| Carbon tetrachloride | 27.5 | 5.0 | ug/l | 25.0 | ND | 110 | 80-145 | | | |
| Chlorobenzene | 26.5 | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | | | |
| Chloroethane | 20.5 | 5.0 | ug/l | 25.0 | ND | 82.0 | 30-150 | | | |
| Chloroform | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 80-125 | | | |
| Chloromethane | 17.7 | 5.0 | ug/l | 25.0 | ND | 70.8 | 15-140 | | | |
| 2-Chlorotoluene | 24.4 | 5.0 | ug/l | 25.0 | ND | 97.6 | 80-125 | | | |
| 4-Chlorotoluene | 24.4 | 5.0 | ug/l | 25.0 | ND | 97.6 | 80-125 | | | |
| Dibromochloromethane | 28.9 | 2.0 | ug/l | 25.0 | ND | 116 | 75-135 | | | |
| 1,2-Dibromo-3-chloropropane | 28.4 | 5.0 | ug/l | 25.0 | ND | 114 | 25-185 | | | |
| 1,2-Dibromoethane (EDB) | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 45-145 | | | |
| Dibromomethane | 24.9 | 2.0 | ug/l | 25.0 | ND | 99.6 | 55-140 | | | |
| 1,2-Dichlorobenzene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | | | |
| 1,3-Dichlorobenzene | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | | | |
| 1,4-Dichlorobenzene | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | | | |
| Dichlorodifluoromethane | 23.7 | 5.0 | ug/l | 25.0 | ND | 94.8 | 25-145 | | | |
| 1,1-Dichloroethane | 22.6 | 2.0 | ug/l | 25.0 | ND | 90.4 | 75-120 | | | |
| 1,2-Dichloroethane | 23.4 | 2.0 | ug/l | 25.0 | ND | 93.6 | 60-135 | | | |
| 1,1-Dichloroethene | 25.0 | 5.0 | · ug/l | 25.0 | ND | 100 | 55-120 | | | |
| cis-1,2-Dichloroethene | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 75-120 | | | |
| trans-1,2-Dichloroethene | 24.2 | 2.0 | ug/l | 25.0 | ND | 96.8 | 65-120 | | | |
| 1,2-Dichloropropane | 22.0 | 2.0 | ug/l | 25.0 | ND | 88.0 | 80-125 | | | |
| 1,3-Dichloropropane | 23.2 | 2.0 | ug/l | 25.0 | ND | 92.8 | 55-140 | | | |
| 2,2-Dichloropropane | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 45-165 | | | |
| 1,1-Dichloropropene | 22.7 | 2.0 | ug/l | 25.0 | ND | 90.8 | 80-120 | | | |

Melissa Evans Project Manager

PKI0180 Page 29 of 39



(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

Report Number:

PKI0180

Received: 09/12/01

<u>N 190 I HOODERDAAN KKOKULOPAUP</u>

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|-----|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P112706 Extracted: 09/26 | <u>/01</u> | | | | | | | | | |
| Matrix Spike Analyzed: 09/26/01 (P1 | 12706-MS1) | | | | Source: P | K10180-1 | 5 | | | |
| cis-1,3-Dichloropropene | 23.1 | 2.0 | ug/l | 25.0 | ND | 92.4 | 80-120 | | | |
| trans-1,3-Dichloropropene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 70-120 | | | |
| Ethylbenzene | 25.7 | 2.0 | ug/l | 25.0 | ND | 103 | 80-120 | | | |
| Hexachlorobutadiene | 23.8 | 5.0 | ug/l | 25.0 | ND | 95.2 | 80-135 | | | |
| 2-Hexanone | 24.7 | 10 | ug/l | 25.0 | ND | 98.8 | 25-185 | | | |
| Iodomethane | 27.4 | 2.0 | ug/l | 25.0 | ND | 110 | 30-155 | | | |
| Isopropylbenzene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 80-125 | | | |
| p-Isopropyltoluene | 22.8 | 2.0 | ug/l | 25.0 | ND | 91.2 | 80-125 | | | |
| Methylene chloride | 30.2 | 5.0 | ug/l | 25.0 | ND | 121 | 55-125 | | | |
| 4-Methyl-2-pentanone (MIBK) | 25.5 | 10 | ug/l | 25.0 | ND | 102 | 10-175 | | | |
| Methyl-tert-butyl Ether (MTBE) | 24.5 | 5.0 | ug/l | 25.0 | ND | 98.0 | 55-135 | | | |
| Naphthalene | 27.9 | 5.0 | ug/l | 25.0 | ND | 112 | 15-160 | | | |
| n-Propylbenzene | 24.1 | 2.0 | ug/l | 25.0 | ND | 96.4 | 80-130 | | | |
| Styrene | 25.6 | 2.0 | ug/l | 25.0 | ND | 102 | 60-135 | | | |
| 1,1,1,2-Tetrachloroethane | 28.6 | 5.0 | ug/l | 25.0 | ND | 114 | 80-135 | | | |
| 1,1,2,2-Tetrachloroethane | 26.5 | 2.0 | ug/l | 25.0 | ND | 106 | 35-150 | | | |
| Tetrachloroethene | 28.2 | 2.0 | ug/l | 25.0 | ND | 113 | 80-120 | | | |
| Toluene | 24.3 | 2.0 | ug/l | 25.0 | ND | 97.2 | 80-120 | | | |
| 1,2,3-Trichlorobenzene | 23.9 | 5.0 | ug/l | 25.0 | ND | 95.6 | 45-145 | | | |
| 1,2,4-Trichlorobenzene | 24.2 | 5.0 | ug/l | 25.0 | ND | 96.8 | 65-130 | | | |
| 1,1,1-Trichloroethane | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 80-120 | | | |
| 1,1,2-Trichloroethane | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 55-145 | | | |
| Trichloroethene | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 80-120 | | | |
| Trichlorofluoromethane | 19.1 | 5.0 | ug/l | 25.0 | ND | 76.4 | 70-145 | | | |
| 1,2,3-Trichloropropane | 25.5 | 10 | ug/l | 25.0 | ND | 102 | 20-160 | | | |
| 1,2,4-Trimethylbenzene | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 70-135 | | | |
| 1,3,5-Trimethylbenzene | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 80-125 | | | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | ND | 92.4 | 25-130 | | | |
| Vinyl chloride | 24.3 | 5.0 | ug/l | 25.0 | ND | 97.2 | 25-135 | | | |
| Xylenes, Total | 76.6 | 10 | ug/l | 75.0 | ND | 102 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 25.7 | | ug/l | 25.0 | | 103 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26.6 | | ug/l | 25.0 | | 106 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 24.8 | | ug/l | 25.0 | | 99.2 | 80-120 | | | |



2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228 1014 E. Coldby Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Report Number: PKI0180

Sampled: 09/12/01 Received: 09/12/01

ASTRIDICOJO PRIMANJENOJEDOM I

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|-------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2706 Extracted: 09/26/0 | <u>)1</u> | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/26/01 | (P1I2706-MS | SD1) | | | Source: F | KI0180-1 | 5 | | | |
| Acetone | ND | 20 | ug/l | 25.0 | ND | 60.0 | 5-200 | 3.39 | 20 | |
| Benzene | 21.9 | 2.0 | ug/l | 25.0 | ND | 87.6 | 80-120 | 2.31 | 20 | |
| Bromobenzene | 27.0 | 5.0 | ug/l | 25.0 | ND | 108 | 80-120 | 0.371 | 20 | |
| Bromochloromethane | 26.1 | 5.0 | ug/i | 25.0 | ND | 104 | 60-135 | 1.93 | 20 | |
| Bromodichloromethane | 26.0 | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | 4.72 | 20 | |
| Bromoform | 30.0 | 5.0 | ug/l | 25.0 | ND | 120 | 40-140 | 5.13 | 20 | |
| Bromomethane | 24.8 | 5.0 | ug/l | 25.0 | ND | 99.2 | 25-165 | 5.81 | 20 | |
| 2-Butanone (MEK) | 18.6 | 10 | ug/l | 25.0 | ND | 74.4 | 10-160 | 5.24 | 20 | |
| n-Butylbenzene | 21.2 | 5.0 | ug/l | 25.0 | ND | 84.8 | 75-135 | 1.87 | 20 | |
| sec-Butylbenzene | 22.5 | 5.0 | ug/1 | 25.0 | ND | 90.0 | 80-135 | 1.76 | 20 | |
| tert-Butylbenzene | 23.4 | 5.0 | ug/l | 25.0 | ND | 93.6 | 80-125 | 3.36 | 20 | |
| Carbon Disulfide | 19.6 | 5.0 | ug/l | 25.0 | ND | 78.4 | 20-120 | 2.58 | 20 | |
| Carbon tetrachloride | 28.3 | 5.0 | ug/l | 25.0 | ND | 113 | 80-145 | 2.87 | 20 | |
| Chlorobenzene | 27.2 | 2.0 | ug/l | 25.0 | ND | 109 | 80-120 | 2.61 | 20 | |
| Chloroethane | 21.4 | 5.0 | ug/l | 25.0 | ND | 85.6 | 30-150 | 4.30 | 20 | |
| Chloroform | 24.7 | 2.0 | ug/l | 25.0 | ND | 98.8 | 80-125 | 2.87 | 20 | |
| Chloromethane | 18.1 | 5.0 | ug/l | 25.0 | ND | 72.4 | 15-140 | 2,23 | 20 | |
| 2-Chlorotoluene | 24.0 | 5.0 | ug/l | 25.0 | ND | 96.0 | 80-125 | 1.65 | 20 | |
| 4-Chlorotoluene | 24.3 | 5.0 | ug/l | 25.0 | ND | 97.2 | 80-125 | 0.411 | 20 | |
| Dibromochloromethane | 30.4 | 2.0 | ug/l | 25.0 | ND | 122 | 75-135 | 5.06 | 20 | |
| 1,2-Dibromo-3-chloropropane | 29.0 | 5.0 | ug/l | 25.0 | ND | 116 | 25-185 | 2.09 | 20 | |
| 1,2-Dibromoethane (EDB) | 27.3 | 2.0 | ug/l | 25.0 | ND | 109 | 45-145 | 3.73 | 20 | |
| Dibromomethane | 25.2 | 2.0 | ug/l | 25.0 | ND | 101 | 55-140 | 1.20 | 20 | |
| 1,2-Dichlorobenzene | 25.5 | 2.0 | ug/l | 25.0 | ND | 102 | 80-120 | 0.391 | 20 | |
| 1,3-Dichlorobenzene | 25.1 | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | 0.399 | 20 | |
| 1,4-Dichlorobenzene | 26.1 | 2.0 | ug/l | 25.0 | ND | 104 | 80-120 | 0.384 | 20 | |
| Dichlorodifluoromethane | 24.7 | 5.0 | ug/l | 25.0 | ND | 98.8 | 25-145 | 4.13 | 20 | |
| 1,1-Dichloroethane | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 75-120 | 1.75 | 20 | |
| 1,2-Dichloroethane | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 60-135 | 2.11 | 20 | |
| 1,1-Dichloroethene | 25.1 | 5.0 | ug/l | 25.0 | ND | 100 | 55-120 | 0.399 | 20 | |
| cis-1,2-Dichloroethene | 23.9 | 2.0 | ug/l | 25.0 | ND | 95.6 | 75-120 | 2.97 | 20 | |
| trans-1,2-Dichloroethene | 24.1 | 2.0 | ug/l | 25.0 | ND | 96.4 | 65-120 | 0.414 | 20 | |
| 1,2-Dichloropropane | 22.2 | 2.0 | ug/l | 25.0 | ND | 88.8 | 80-125 | 0.905 | 20 | |
| 1,3-Dichloropropane | 24.0 | 2.0 | ug/l | 25.0 | ND | 96.0 | 55-140 | 3.39 | 20 | |
| 2,2-Dichloropropane | 24.4 | 2.0 | ug/l | 25.0 | ND | 97.6 | 45-165 | 1.63 | 20 | |
| 1,1-Dichloropropene | 23.0 | 2.0 | ug/l | 25.0 | ND | 92.0 | 80-120 | 1.31 | 20 | |
| | | | - | | | | _ | | | |

Melissa Evans Project Manager

PKI0180 Page 31 of 39

(949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-8596 FAX (858) 505-9589 (480) 785-0043 FAX (480) 785-0851

Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Sampled: 09/12/01

Report Number:

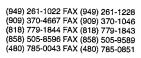
PKI0180

Received: 09/12/01

<u>iyi dadukoo dubburyak kalozaddah baruka</u>

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2706 Extracted: 09/26/0 | 1 | | | | | | | | | |
| Matrix Spike Dup Analyzed: 09/26/01 | (P1I2706-M | SD1) | | | Source: P | KI0180-1 | 5 | | | |
| cis-1,3-Dichloropropene | 23.6 | 2.0 | ug/l | 25.0 | ND | 94.4 | 80-120 | 2.14 | 20 | |
| trans-1,3-Dichloropropene | 24.8 | 2.0 | ug/l | 25.0 | ND | 99.2 | 70-120 | 4.96 | 20 | |
| Ethylbenzene | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 80-120 | 2.69 | 20 | |
| Hexachlorobutadiene | 23.7 | 5.0 | ug/l | 25.0 | ND | 94.8 | 80-135 | 0.421 | 20 | |
| 2-Hexanone | 25.3 | 10 | ug/l | 25.0 | ND | 101 | 25-185 | 2.40 | 20 | |
| Iodomethane | 28.1 | 2.0 | ug/l | 25.0 | ND | 112 | 30-155 | 2.52 | 20 | |
| Isopropylbenzene | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 80-125 | 2.70 | 20 | |
| p-Isopropyltoluene | 22.4 | 2.0 | ug/l | 25.0 | ND | 89.6 | 80-125 | 1.77 | 20 | |
| Methylene chloride | 31.5 | 5.0 | ug/l | 25.0 | ND | 126 | 55-125 | 4.21 | 20 | M1 |
| 4-Methyl-2-pentanone (MIBK) | 25.8 | 10 | ug/l | 25.0 | ND | 103 | 10-175 | 1.17 | 20 | |
| Methyl-tert-butyl Ether (MTBE) | 25.2 | 5.0 | ug/l | 25.0 | ND | 101 | 55-135 | 2.82 | 20 | |
| Naphthalene | 28.0 | 5.0 | ug/l | 25.0 | ND | 112 | 15-160 | 0.358 | 20 | |
| n-Propylbenzene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 80-130 | 1.25 | 20 | |
| Styrene | 26.4 | 2.0 | ug/l | 25.0 | ND | 106 | 60-135 | 3.08 | 20 | |
| 1,1,1,2-Tetrachloroethane | 29.8 | 5.0 | ug/l | 25.0 | ND | 119 | 80-135 | 4.11 | 20 | |
| 1,1,2,2-Tetrachloroethane | 26.8 | 2.0 | ug/l | 25.0 | ND | 107 | 35-150 | 1.13 | 20 | |
| Tetrachloroethene | 28.5 | 2.0 | ug/l | 25.0 | ND | 114 | 80-120 | 1.06 | 20 | |
| Toluene | 25.0 | 2.0 | ug/l | 25.0 | ND | 100 | 80-120 | 2.84 | 20 | |
| 1,2,3-Trichlorobenzene | 23.5 | 5.0 | ug/l | 25.0 | ND | 94.0 | 45-145 | 1.69 | 20 | |
| 1,2,4-Trichlorobenzene | 24.0 | 5.0 | ug/l | 25.0 | ND | 96.0 | 65-130 | 0.830 | 20 | |
| 1,1,1-Trichloroethane | 26.7 | 2.0 | ug/l | 25.0 | ND | 107 | 80-120 | 1.51 | 20 | |
| 1,1,2-Trichloroethane | 26.3 | 2.0 | ug/l | 25.0 | ND | 105 | 55-145 | 5.07 | 20 | |
| Trichloroethene | 24.1 | 2.0 | ug/l | 25.0 | ND | 96.4 | 80-120 | 0.833 | 20 | |
| Trichlorofluoromethane | 20.7 | 5.0 | ug/l | 25.0 | ND | 82.8 | 70-145 | 8.04 | 20 | |
| 1,2,3-Trichloropropane | 25.4 | 10 | ug/l | 25.0 | ND | 102 | 20-160 | 0.393 | 20 | |
| 1,2,4-Trimethylbenzene | 24.5 | 2.0 | ug/l | 25.0 | ND | 98.0 | 70-135 | 2.02 | 20 | |
| 1,3,5-Trimethylbenzene | 23.8 | 2.0 | ug/l | 25.0 | ND | 95.2 | 80-125 | 0.837 | 20 | |
| Vinyl acetate | ND | 25 | ug/l | 25.0 | ND | 92.4 | 25-130 | 0.00 | 20 | |
| Vinyl chloride | 25.3 | 5.0 | ug/l | 25.0 | ND | 101 | 25-135 | 4.03 | 20 | , |
| Xylenes, Total | 78.9 | 10 | ug/l | 75.0 | ND | 105 | 80-120 | 2.96 | 20 | |
| Surrogate: Dibromofluoromethane | 26.1 | | ug/l | 25.0 | | 104 | 80-120 | | | |
| Surrogate: Toluene-d8 | 27.2 | | ug/l | 25.0 | | 109 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 24.7 | | ug/l | 25.0 | | 98.8 | 80-120 | | | |





Law Engineering 4634 S. 36th Place

Phoenix, AZ 85040 Attention: Jim Clarke Client Project ID:

70211-0-01SD

Report Number:

PKI0180

Sampled: 09/12/01

Received: 09/12/01

NICHTO BRISNACK DATE

TOTAL METALS

| | Reporting | | Spike | Source | | %REC | | RPD | Data |
|------------|--|--------------|--|--------------------------------|---|---|--|-------|------------|
| Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| <u>1_</u> | | | | | | | | | |
| .K1) | | | | | | | | | |
| ND | 5.0 | mg/kg | | | | | | | |
| ND | 1.0 | mg/kg | | | | | | | |
| ND | 2.0 | mg/kg | | | | | | | |
| ND | 5.0 | mg/kg | | | | | | | |
|) | | | | | | | | | |
| 89.9 | 5.0 | mg/kg | 100 | | 89.9 | 80-120 | | | |
| 88.0 | 1.0 | mg/kg | 100 | | 88.0 | 80-120 | | | |
| 90.2 | 2.0 | mg/kg | 100 | | 90.2 | 80-120 | | | |
| 86.6 | 5.0 | mg/kg | 100 | | 86.6 | 80-120 | | | |
| -BSD1) | | | | | | | | | |
| 91.6 | 5.0 | mg/kg | 100 | | 91.6 | 80-120 | 1.87 | 20 | |
| 89.4 | 1.0 | mg/kg | 100 | | 89.4 | 80-120 | 1.58 | 20 | |
| 90.2 | 2.0 | mg/kg | 100 | | 90.2 | 80-120 | 0.00 | 20 | |
| 87.8 | 5.0 | mg/kg | 100 | | 87.8 | 80-120 | 1.38 | 20 | |
| (805-MS1) | | | | Source: I | PKI0226-1 | 10 | | | |
| 77.3 | 5.0 | mg/kg | 100 | ND | 77.3 | 75-125 | | | |
| 95.8 | 1.0 | mg/kg | 100 | 12 | 83.8 | 75-125 | | | |
| 102 | 2.0 | mg/kg | 100 | 7.6 | 94.4 | 75-125 | | | |
| 86.1 | | mg/kg | 100 | | | | | | |
| (P111805-M | SD1) | | | | PKI0226-1 | 10 | | | |
| 80.5 | 5.0 | mg/kg | 100 | ND | 80.5 | 75-125 | 4.06 | 20 | |
| 99.4 | 1.0 | mg/kg | 100 | 12 | 87.4 | 75-125 | 3.69 | 20 | |
| 99.5 | 2.0 | mg/kg | 100 | 7.6 | 91.9 | 75-125 | 2.48 | 20 | |
| 89.3 | 5.0 | mg/kg | 100 | ND | 84.6 | 75-125 | 3.65 | 20 | |
| | 1 ND ND ND ND ND 1 89.9 88.0 90.2 86.6 89.4 90.2 87.8 1805-MS1) 77.3 95.8 102 86.1 (P111805-Million 199.5 | Result Limit | ND S.0 mg/kg S8.0 S.0 mg/kg 90.2 S.0 mg/kg 90.2 S.0 mg/kg 91.6 S.0 mg/kg 91.6 S.0 mg/kg 90.2 S.0 mg/kg 90.3 S.0 mg/kg 90.4 S.0 mg/kg 90.5 S.0 mg/kg 90.6 S.0 mg/kg 90.7 S.0 mg/kg 90.8 S.0 mg/kg 90.9 S.0 mg/kg 90.0 S.0 mg | Result Limit Units Level | ND S.0 mg/kg S8.0 S.0 mg/kg S6.6 S.0 mg/kg S9.4 S.0 mg/kg S9.4 S.0 mg/kg S7.3 S7.3 | ND S.0 mg/kg ND 1.0 mg/kg ND 5.0 mg/kg 100 89.9 88.0 1.0 mg/kg 100 88.0 90.2 2.0 mg/kg 100 86.6 90.2 86.6 5.0 mg/kg 100 86.6 91.6 89.4 1.0 mg/kg 100 89.4 90.2 2.0 mg/kg 100 89.4 90.2 2.0 mg/kg 100 87.8 87.8 5.0 mg/kg 100 87.8 87.8 87.8 100 mg/kg 100 ND 77.3 95.8 1.0 mg/kg 100 ND 81.4 (P111805-MSD1) Source: PK10226-100 80.5 5.0 mg/kg 100 ND 80.5 99.4 1.0 mg/kg 100 ND 80.5 99.4 1.0 mg/kg 100 12 87.4 99.5 2.0 mg/kg 100 7.6 91.9 | ND 5.0 mg/kg ND 2.0 mg/kg ND 5.0 mg/kg 100 89.9 80-120 88.0 80-120 90.2 2.0 mg/kg 100 86.6 80-120 86.6 5.0 mg/kg 100 86.6 80-120 89.4 1.0 mg/kg 100 91.6 80-120 89.4 1.0 mg/kg 100 89.4 80-120 90.2 2.0 mg/kg 100 89.4 80-120 90.2 2.0 mg/kg 100 89.4 80-120 90.2 2.0 mg/kg 100 87.8 80-120 87.8 5.0 mg/kg 100 87.8 80-120 87.8 5.0 mg/kg 100 ND 77.3 75-125 95.8 1.0 mg/kg 100 ND 77.3 75-125 95.8 1.0 mg/kg 100 ND 77.3 75-125 95.8 1.0 mg/kg 100 ND 81.4 75-125 86.1 5.0 mg/kg 100 ND 81.4 75-125 86.1 5.0 mg/kg 100 ND 81.4 75-125 99.4 1.0 mg/kg 100 ND 80.5 75-125 99.5 2.0 mg/kg 100 7.6 91.9 75-125 99.5 2.0 mg/kg 100 7.6 91.9 75-125 99.5 99.5 2.0 mg/kg 100 7.6 91.9 75- | No | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

%REC

Report Number:

Reporting

PKI0180

Received: 09/12/01

RPD

Data

MÜTHOD BLANK (XC.DATA

TOTAL METALS

Spike

Source

| | | reporting | | Spine | Dourte | | /UILLOC | | 111 12 | Dutu |
|--------------------------------------|-------------|-----------|-------|-------|-----------|-----------|---------|------|--------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2415 Extracted: 09/24/6 | <u>01</u> | | | | | | | | | |
| Blank Analyzed: 09/24/01 (P1I2415-B | LK1) | | | | | | | | | |
| Chromium VI | ND | 1.0 | mg/kg | | | | | | | |
| LCS Analyzed: 09/24/01 (P1I2415-BS | 1) | | | | | | | | | |
| Chromium VI | 9.73 | 1.0 | mg/kg | 10.0 | | 97.3 | 85-115 | | | |
| LCS Dup Analyzed: 09/24/01 (P1I241 | 5-BSD1) | | | | | | | | | |
| Chromium VI | 8.93 | 1.0 | mg/kg | 10.0 | | 89.3 | 85-115 | 8.57 | 20 | |
| Matrix Spike Analyzed: 09/24/01 (P1) | (2415-MS1) | | | | Source: 1 | PK10159-0 |)7 | | | |
| Chromium VI | 9.08 | 1.0 | mg/kg | 10.0 | ND | 89.3 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 09/24/01 | (P1I2415-M | (SD1) | | | Source: 1 | PK10159-(|)7 | | | |
| Chromium VI | 9.08 | 1.0 | mg/kg | 10.0 | ND | 89.3 | 85-115 | 0.00 | 20 | |
| Batch: P1I2605 Extracted: 09/26/ | 01 | | | | | | | | | |
| Blank Analyzed: 09/28/01 (P1I2605-E | LK1) | | | | | | | | | |
| Zinc | ND | 5.0 | mg/kg | | | | | | | |
| LCS Analyzed: 09/28/01 (P1I2605-BS | 51) | | | | | | | | | |
| Zinc | 104 | 5.0 | mg/kg | 100 | | 104 | 80-120 | | | |
| Matrix Spike Analyzed: 09/28/01 (P1 | (12605-MS1) | | | | Source: | PK10365-0 | 01 | | | |
| Zinc | 121 | 5.0 | mg/kg | 100 | 43 | 78.0 | 75-125 | | | |
| Matrix Spike Dup Analyzed: 09/28/01 | (P1I2605-M | ISD1) | | | Source: | PK10365- | 01 | | | |
| Zinc | 130 | 5.0 | mg/kg | 100 | 43 | 87.0 | 75-125 | 7.17 | 20 | |



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Law Engineering 4634 S. 36th Place

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

Phoenix, AZ 85040 Attention: Jim Clarke

Report Number:

PKI0180

Received: 09/12/01

NIETHOD BLANKIQUIDADA.

TOTAL RECOVERABLE METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|--|-------------|-------------|-------|--------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I1408 Extracted: 09/13/01 | _ | | | | | | | | | |
| Blank Analyzed: 09/13/01 (P1I1408-BL | K1) | | | | | | | | | |
| Chromium V1 | ND | 0.025 | mg/l | | | | | | | |
| LCS Analyzed: 09/13/01 (P1I1408-BS1) | | | | | | | | | | |
| Chromium VI | 0.0993 | 0.050 | mg/l | 0.100 | | 99.3 | 85-115 | | | |
| LCS Dup Analyzed: 09/13/01 (P111408- | BSD1) | | | | | | | | | |
| Chromium VI | 0.0993 | 0.050 | mg/l | 0.100 | | 99.3 | 85-115 | 0.00 | 20 | |
| Matrix Spike Analyzed: 09/13/01 (P1114 | 408-MS1) | | | | Source: P | K10180-1 | 5 | | | |
| Chromium VI | 0.0496 | 0.025 | mg/l | 0.0500 | ND | 99.2 | 85-115 | | | |
| Matrix Spike Dup Analyzed: 09/13/01 (| P111408-MSI | D1) | | | Source: P | K10180-1 | 5 | | | |
| Chromium VI | 0.0509 | 0.025 | mg/l | 0.0500 | ND | 102 | 85-115 | 2.59 | 20 | |
| Batch: P1I2021 Extracted: 09/20/01 | - | | | | | | | | | |
| Blank Analyzed: 09/23/01 (P112021-BL | K1) | | | | | | | • | | |
| Arsenic | ND | 0.050 | mg/l | | | | | | | |
| Chromium | ND | 0.010 | mg/l | | | | | | | |
| Copper | ND | 0.020 | mg/l | | | | | | | |
| Nickel | ND | 0.050 | mg/l | | | | | | | |
| Zinc | ND | 0.050 | mg/l | | | | | | | |
| LCS Analyzed: 09/23/01 (P112021-BS1) | | | | | | | | | | |
| Arsenic | 1.01 | 0.050 | mg/l | 1.00 | | 101 | 85-115 | | | |
| Chromium | 0.982 | 0.010 | mg/l | 1.00 | | 98.2 | 85-115 | | | |
| Copper | 0.971 | 0.020 | mg/l | 1.00 | | 97.1 | 85-115 | | | |
| Nickel | 0.971 | 0.050 | mg/l | 1.00 | | 97.1 | 85-115 | | | |
| Zinc | 0.992 | 0.050 | mg/l | 1.00 | | 99.2 | 85-115 | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

Report Number:

70211-0-01SD

PKI0180

Sampled: 09/12/01

Received: 09/12/01

TOTAL RECOVERABLE METALS

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-----------------------------------|---------------|-----------|-------|-------|-----------|-----------|--------|-------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2021 Extracted: 09/2 | 0/01 | | | | | | | | | |
| LCS Dup Analyzed: 09/23/01 (P112 | 2021-BSD1) | | | | | | | | | |
| Arsenic | 1.03 | 0.050 | mg/l | 1.00 | | 103 | 85-115 | 1.96 | 20 | |
| Chromium | 0.994 | 0.010 | mg/l | 1.00 | | 99.4 | 85-115 | 1.21 | 20 | |
| Copper | 0.991 | 0.020 | mg/l | 1.00 | | 99.1 | 85-115 | 2.04 | 20 | |
| Nickel | 0.983 | 0.050 | mg/l | 1.00 | | 98.3 ` | 85-115 | 1.23 | 20 | |
| Zinc | 0.997 | 0.050 | mg/l | 1.00 | | 99.7 | 85-115 | 0.503 | 20 | |
| Matrix Spike Analyzed: 09/23/01 (| P1I2021-MS1) | | | | Source: F | PK10308-0 | 1 | | | |
| Arsenic | 1.08 | 0.050 | mg/l | 1.00 | ND | 108 | 70-130 | | | |
| Chromium | 1.02 | 0.010 | mg/l | 1.00 | ND | 102 | 70-130 | | | |
| Copper | 1.08 | 0.020 | mg/l | 1.00 | ND | 107 | 70-130 | | | |
| Nickel | 1.01 | 0.050 | mg/l | 1.00 | ND | 101 | 70-130 | | | |
| Zinc | 1.66 | 0.050 | mg/l | 1.00 | 0.62 | 104 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/23/ | 01 (P1I2021-M | SD1) | | | Source: I | PK10308-0 | 1 | | | |
| Arsenic | 1.06 | 0.050 | mg/l | 1.00 | ND | 106 | 70-130 | 1.87 | 20 | |
| Chromium | 1.00 | 0.010 | mg/l | 1.00 | ND | 100 | 70-130 | 1.98 | 20 | |
| Copper | 1.06 | 0.020 | mg/l | 1.00 | ND | 105 | 70-130 | 1.87 | 20 | |
| Nickel | 0.988 | 0.050 | mg/l | 1.00 | ND | 98.8 | 70-130 | 2.20 | 20 | |
| Zinc | 1.63 | 0.050 | mg/l | 1.00 | 0.62 | 101 | 70-130 | 1.82 | 20 | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Report Number: PKI0180 Sampled: 09/12/01

Received: 09/12/01

INORGANICS

C-:1--

| | | Reporting | | Spike | Source | | %REC | | RPD | Data |
|-------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2412 Extracted: 09/24/ | <u>′01</u> | | | | | | | | | |
| Blank Analyzed: 09/25/01 (P1I2412-1 | BLK1) | | | | | | | | | |
| Total Cyanide | ND | 0.020 | mg/kg | | | | | | | |
| Blank Analyzed: 09/25/01 (P1I2412-I | BLK2) | | | | | | | | | |
| Total Cyanide | ND | 0.020 | mg/kg | | | | | | | |
| Matrix Spike Analyzed: 09/25/01 (P1 | 12412-MS1) | | | | Source: F | KI0180-0 | 8 | | | |
| Total Cyanide | 2.14 | 0.50 | mg/kg | 2.50 | ND | 85.6 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/25/01 | (P1I2412-M | SD1) | | | Source: F | KI0180-0 | 8 | | | |
| Total Cyanide | 3.27 | 0.50 | mg/kg | 2.50 | ND | 131 | 70-130 | 41.8 | 20 | N2,R1 |
| Reference Analyzed: 09/25/01 (P1124 | 12-SRM1) | | | | | | | | | |
| Total Cyanide | 101 | 20 | mg/kg | 201 | | 50.2 | 40-160 | | | |
| Reference Analyzed: 09/25/01 (P1124 | 12-SRM2) | | | | | | | | | |
| Total Cyanide | 157 | 20 | mg/kg | 201 | | 78.1 | 40-160 | | | |
| Batch: P1I2622 Extracted: 09/26/ | <u>′01</u> | | | | | | | | | |
| Blank Analyzed: 09/26/01 (P112622-1 | BLK1) | | | | | | | | | |
| Total Cyanide | ND | 0.020 | mg/l | | | | | | | |
| LCS Analyzed: 09/26/01 (P112622-BS | S1) | | | | | | | | | |
| Total Cyanide | 0.110 | 0.020 | mg/l | 0.100 | | 110 | 90-110 | | | |
| LCS Dup Analyzed: 09/26/01 (P1I26 | 22-BSD1) | | | | | | | | | |
| Total Cyanide | 0.110 | 0.020 | mg/l | 0.100 | | 110 | 90-110 | 0.00 | 20 | |
| | | | | | | | | | | |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

Attention: Jim Clarke

Client Project ID:

70211-0-01SD

Sampled: 09/12/01

Report Number:

PKI0180

Received: 09/12/01

METHOD BLANK QC DATA

INORGANICS

| | | Keporting | | Spike | Source | | %REC | | RPD | Data |
|--------------------------------------|------------|-----------|-------|-------|-----------|----------|--------|------|-------|------------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qualifiers |
| Batch: P1I2622 Extracted: 09/26/6 | <u>)1</u> | | | | | | | | | |
| Matrix Spike Analyzed: 09/26/01 (P11 | 2622-MS1) | | | | Source: F | K10235-0 | 1RE1 | | | |
| Total Cyanide | 0.115 | 0.020 | mg/l | 0.100 | ND | 115 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 09/26/01 | (P1I2622-M | SD1) | | | Source: F | K10235-0 | 1RE1 | | | |
| Total Cyanide | 0.139 | 0.020 | mg/l | 0.100 | ND | 139 | 70-130 | 18.9 | 20 | Ml |



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Law Engineering 4634 S. 36th Place Phoenix, AZ 85040 Attention: Jim Clarke

Client Project ID: 70211-0-01SD

Report Number: PKI0180

Sampled: 09/12/01 Received: 09/12/01

MOTHOD BLAD (WOODARS)

DATA QUALIFIERS AND DEFINITIONS

| B 1 | Target analyte detected in method blank at or above the method reporting limit. |
|------------|--|
| M1 | Matrix spike recovery was high, the method control sample recovery was acceptable. |
| M2 | Matrix spike recovery was low, the method control sample recovery was acceptable. |
| N2 | See corrective action report. |
| | |

R1 RPD exceeded the method control limit. See case narrative.

R4 MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria.
 R6 LFB/LFBD RPD exceeded the method control limit. Recovery met acceptance criteria.

Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.

V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported.

RPD Relative Percent Difference

Del Mar Analytical

CHAIN OF CUSTODY FORM

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7277 Hayvenhurst, Suite B-12, Vari Nuys, CA 91406 9464 Chesepperke Dr., Suite 805, San Diggs, CA 82123 9930 South 51st St., Suite 8-120, Phoenite, Az 65044 2620 E. Surset Hd., Suite 3, Las Vegas, NV 89120

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sted on this chain of custody form and any additional analyses performed on this project. Payment for services is 404 72 hours Tumaround Time: (Check) Sample Integrity: (Check) 0 \mathcal{B} 3 30 0-04 \mathcal{E} 0 \mathcal{Z} same day 24 hours 48 hours [m/0.15H disto Analysis Required ٤ PAIN DE D Date (Time: Date /Time: 821°P Z Received in Lab by Sampling Sampling Preservatives
Date Time Received by: Received by: 0510-0-11201 Fee. Number, 431 3215 14/5 1070 31 がかっ 1200 7 12 2 10T6 G かに 10/10 10/c1/6 10/0 かがあ X 5 W C C 0 100 えつずる 2 Client Name/Address: C, Refinquished By 18

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services reduce within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Del Mar Analytical

CHAIN OF CUSTODY FORM

(949) 261-1022 FAX (949) 261-1228 (909) 370-4657 FAX (909) 370-1046 (816) 779-1844 FAX (818) 779-1843 (859) 505-6395 FAX (859) 756-695 (480) 786-0943 FAX (480) 786-0951 (702) 798-3620 FAX (702) 798-3621

2852 Alton Ave. Irvine, CA 92606 (coleby Dr., Sulte A, Cathon, CA 92324 (st. Sulte B-12, Vari Nuys, CA 91406 (br., Sulte B-12, Vari Nuys, CA 91433 (st. Sulte B-120, Pheerik, AZ 85044 (t Pd., Sulte B-120, Les Végas, NV 89120 (t R Pd., Sulte 3)

7

Page

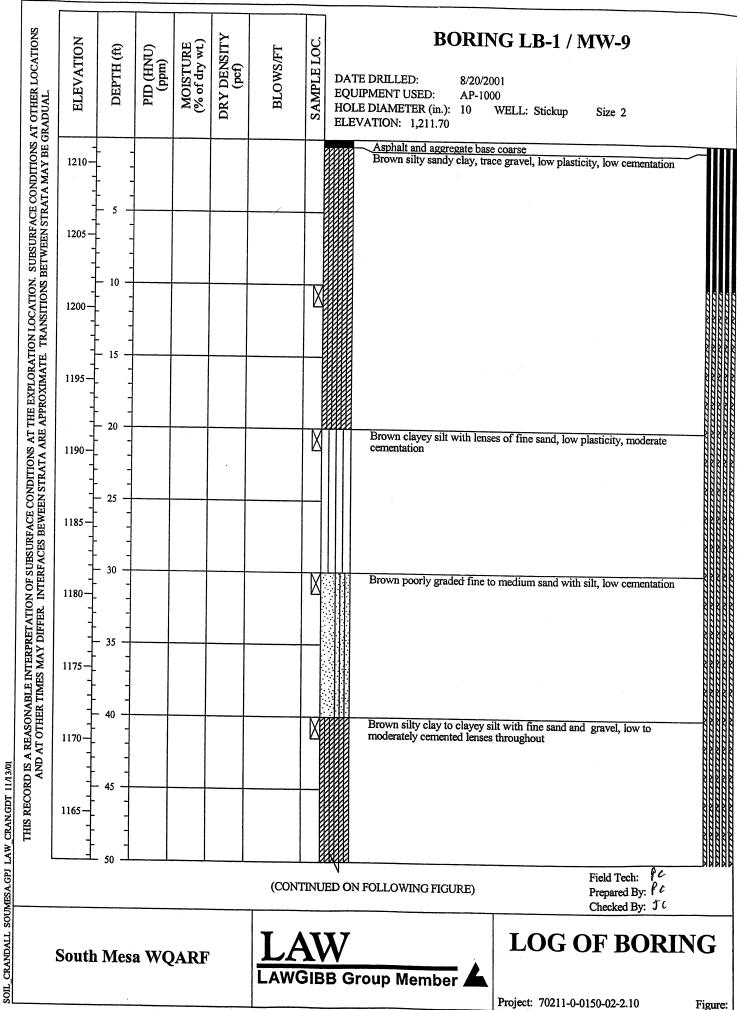
Special Instructions additional analyses performed on this project. Payment for services is 72 hours 5 days normal on ice Turnaround Time: (Check) Sample Integrity: (Check) 0 YIOK YIOK same day 24 hours 48 hours intact , Analysis Required X lote: By relinquishing samples to Det Mar Analytical, client agrees to pay for the services requested on this chain of custody joint and any Date Time: Date /Time: 11 / Date Fime X × e my × 30 A Received by: Received in Lab 5% Sampling Sampling Preservatives
Date Time Received by: 0510-0-11201 11/2/M2/11 0/21 1045 Project/PO Number: Phone Number Fax Number. 9/2/01 ò Sont. Sample Container
Watrix Type Date /Time: となり Tot. RITHE BIRD Sec. Sample Description Client Name/Address: hed By: Sampler:

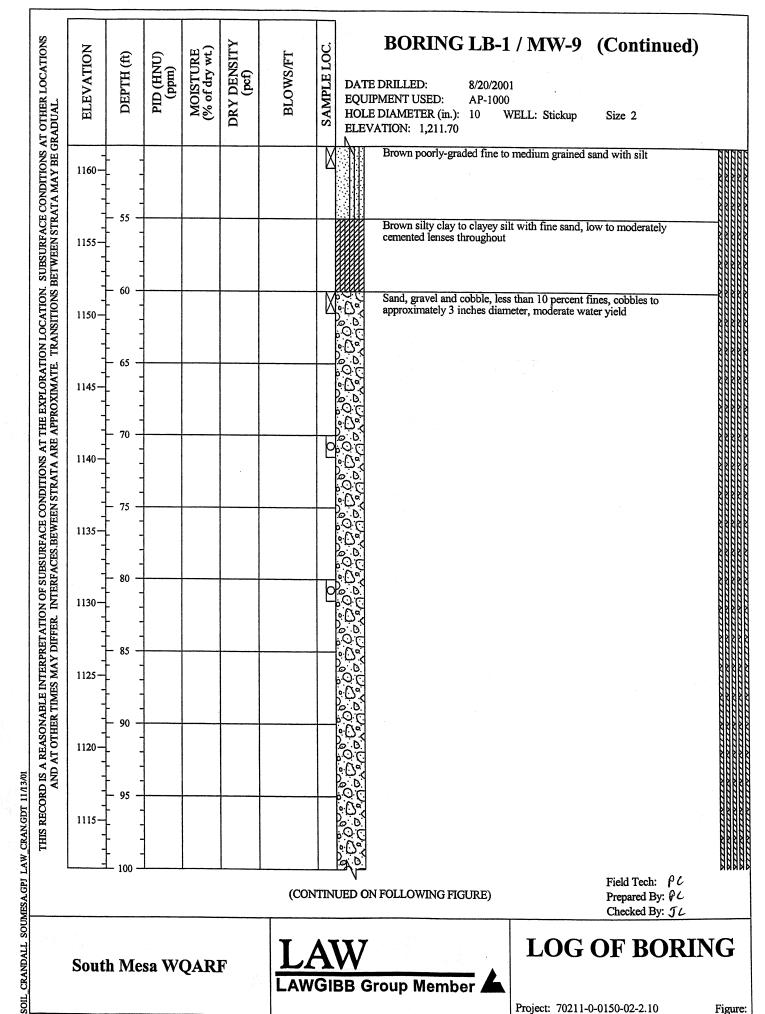
In 30 days fish the date of invoice. Sample(s) will be disposed of after 30 days.

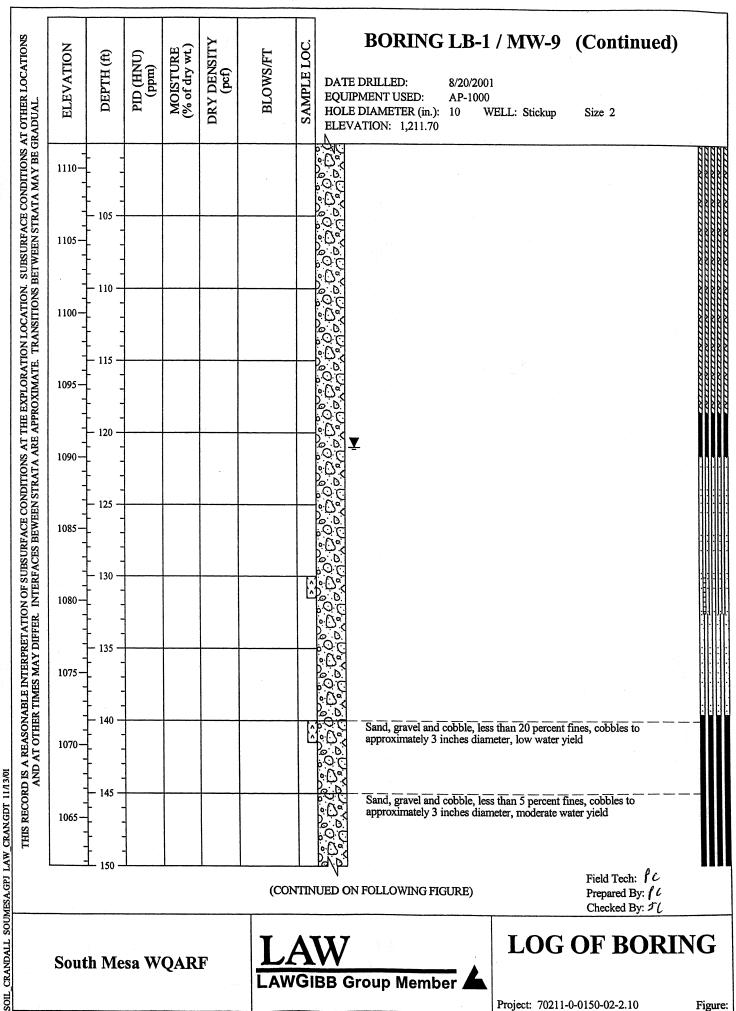


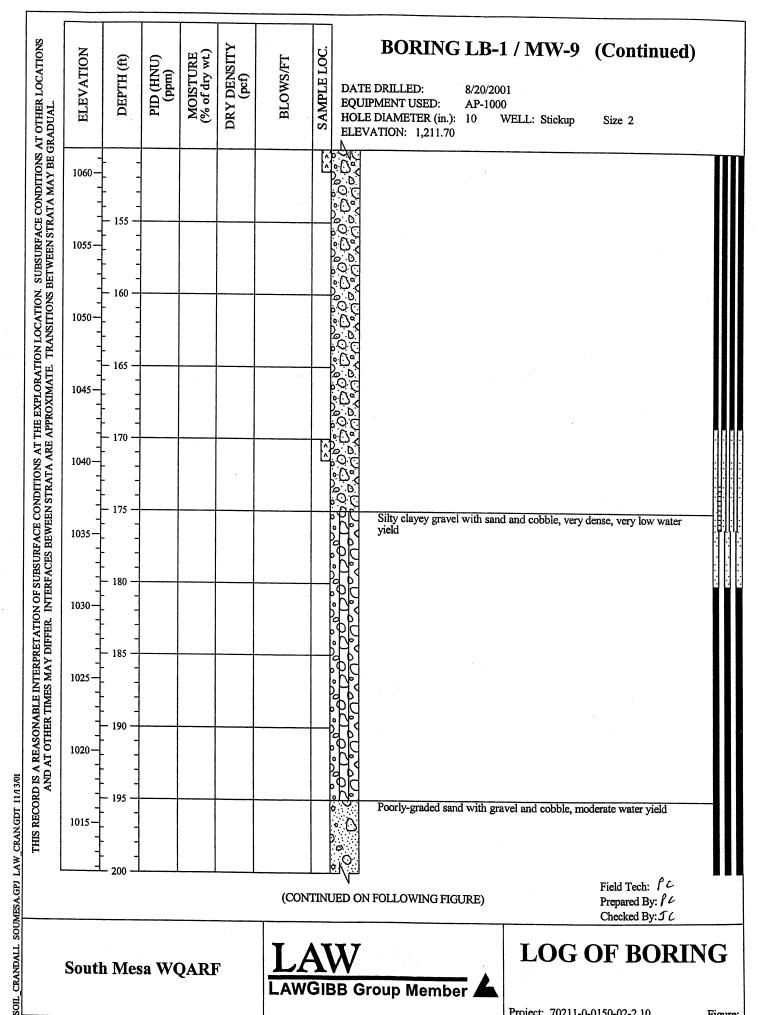
APPENDIX I

BORING LOGS AND WELL CONSTRUCTION DIAGRAM

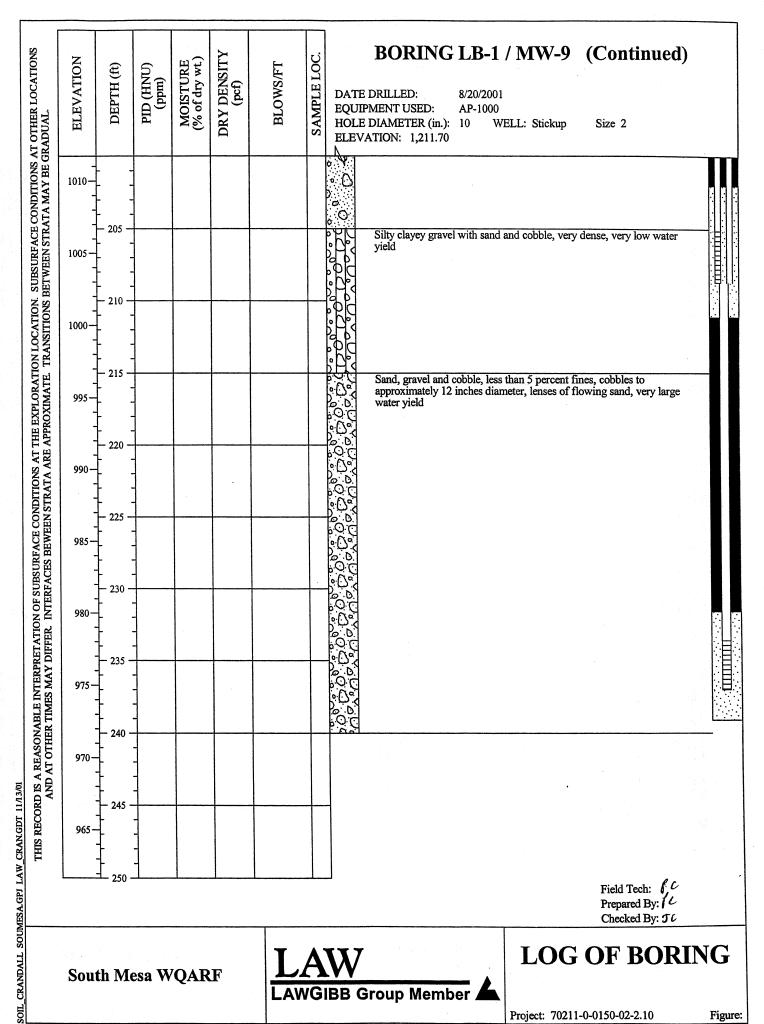




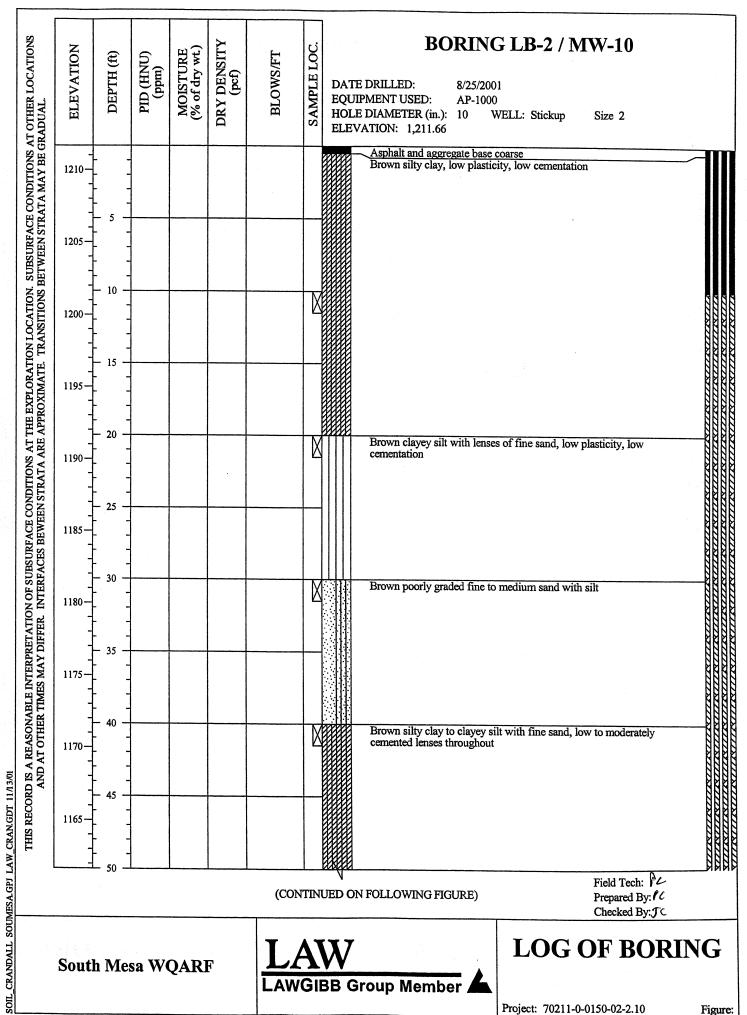


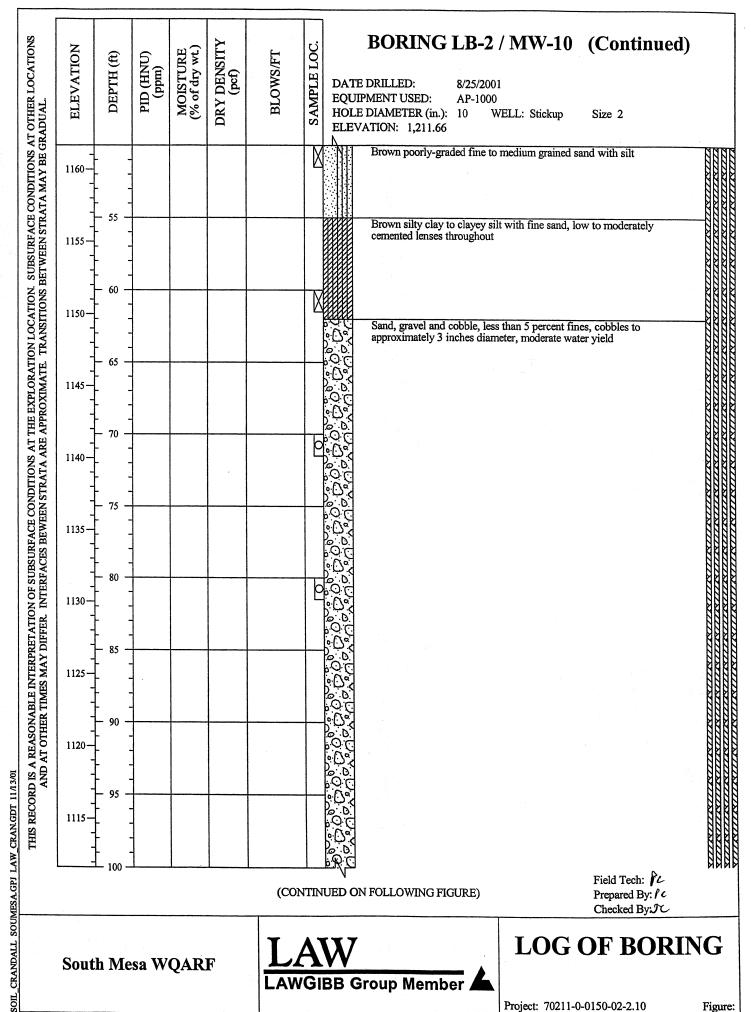


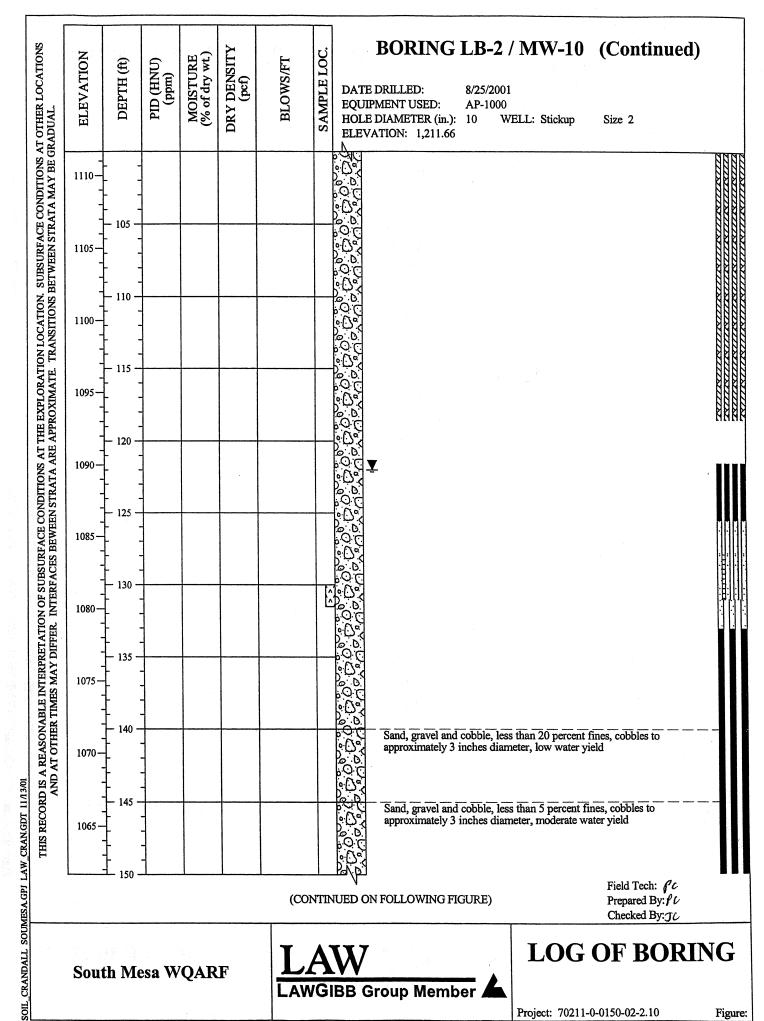
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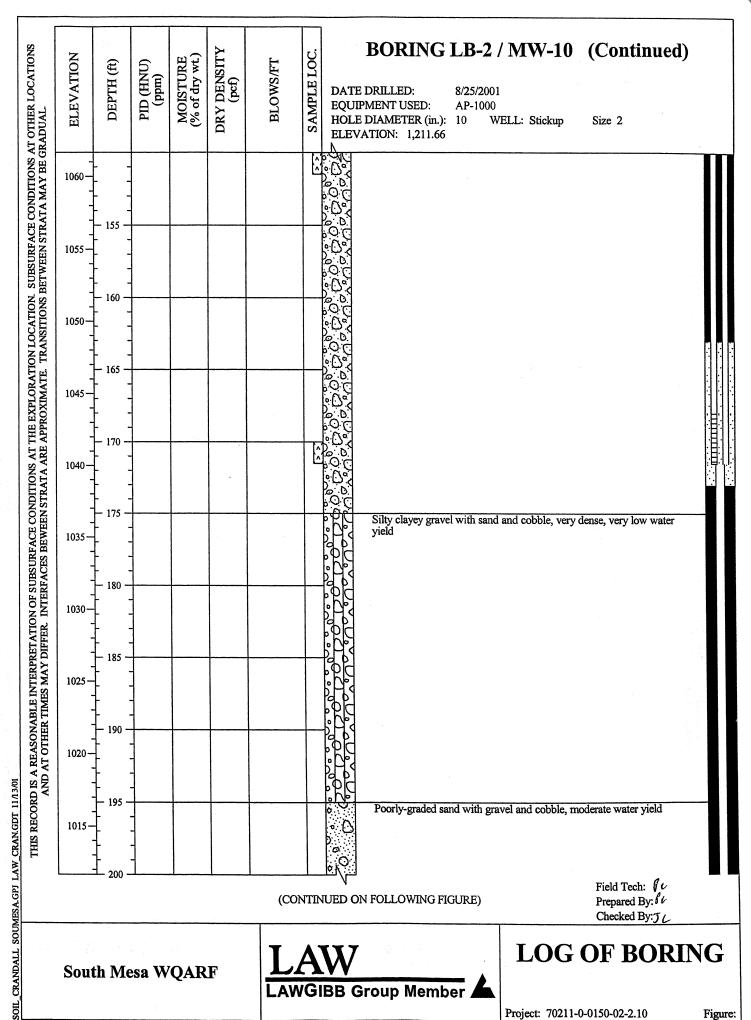


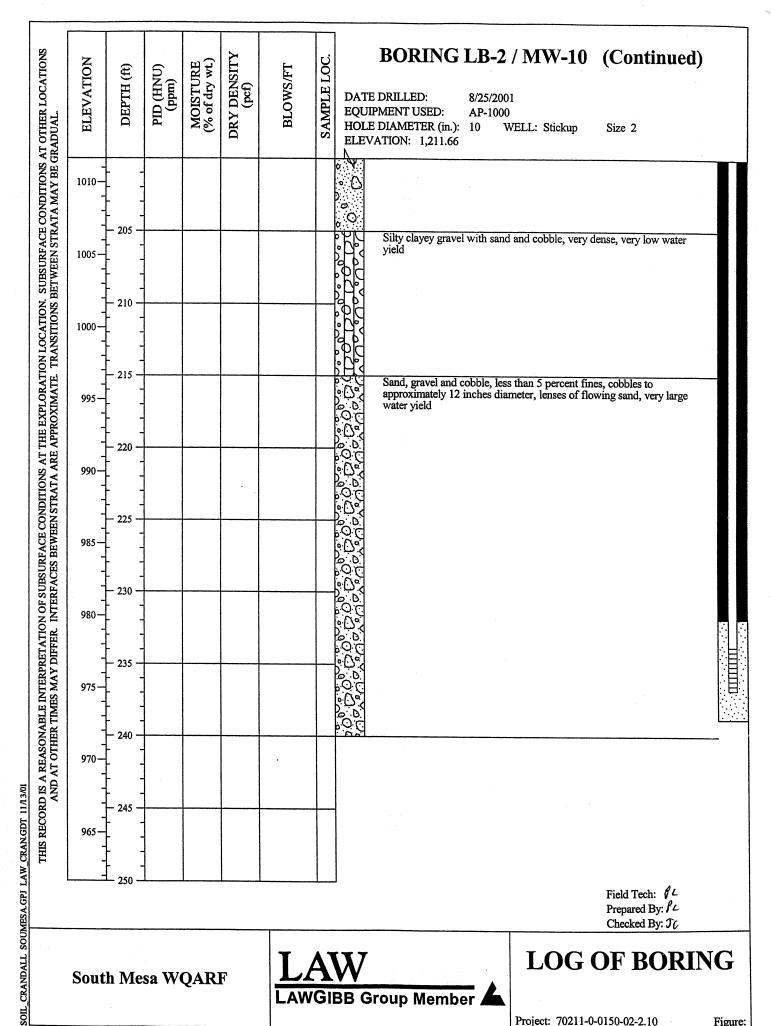
Project: 70211-0-0150-02-2.10



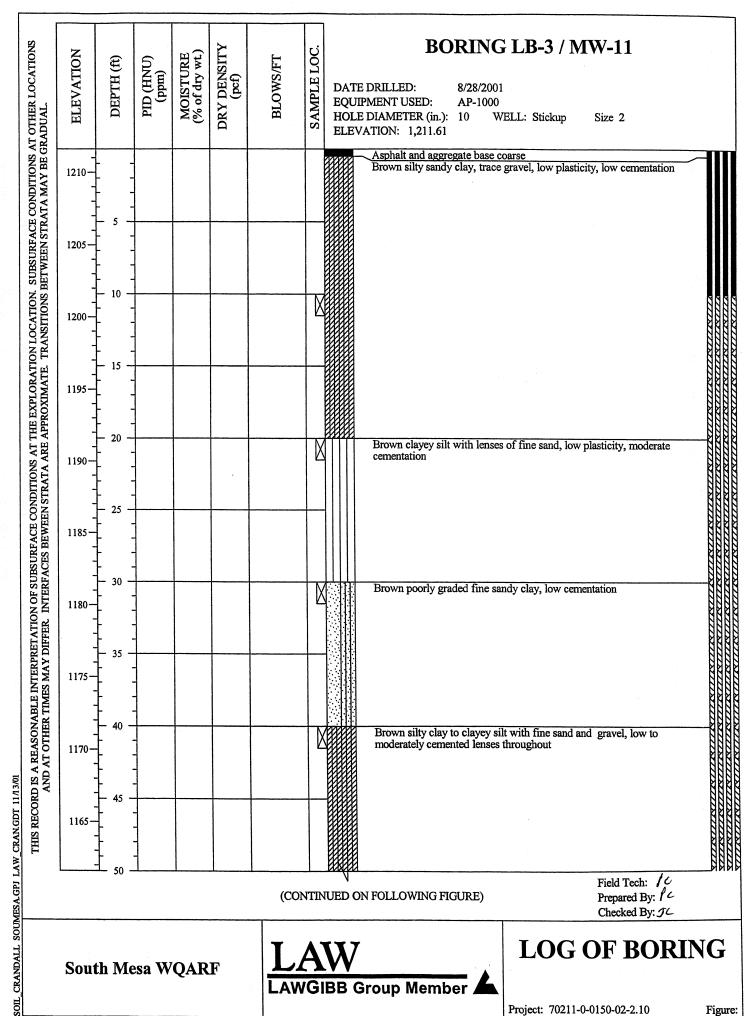


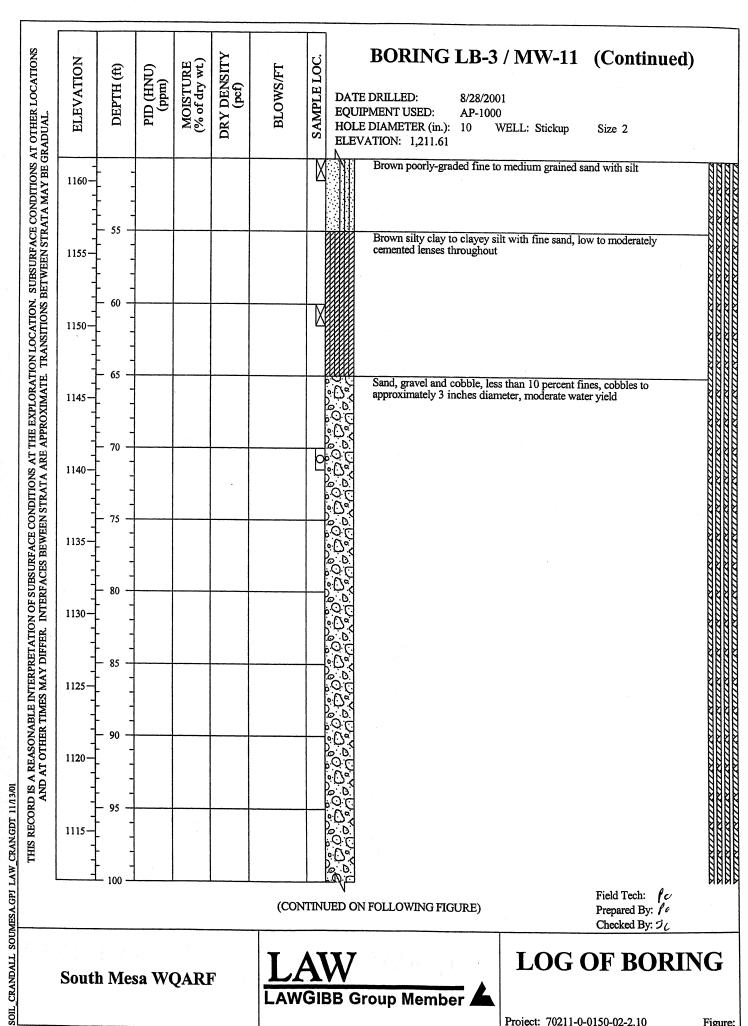




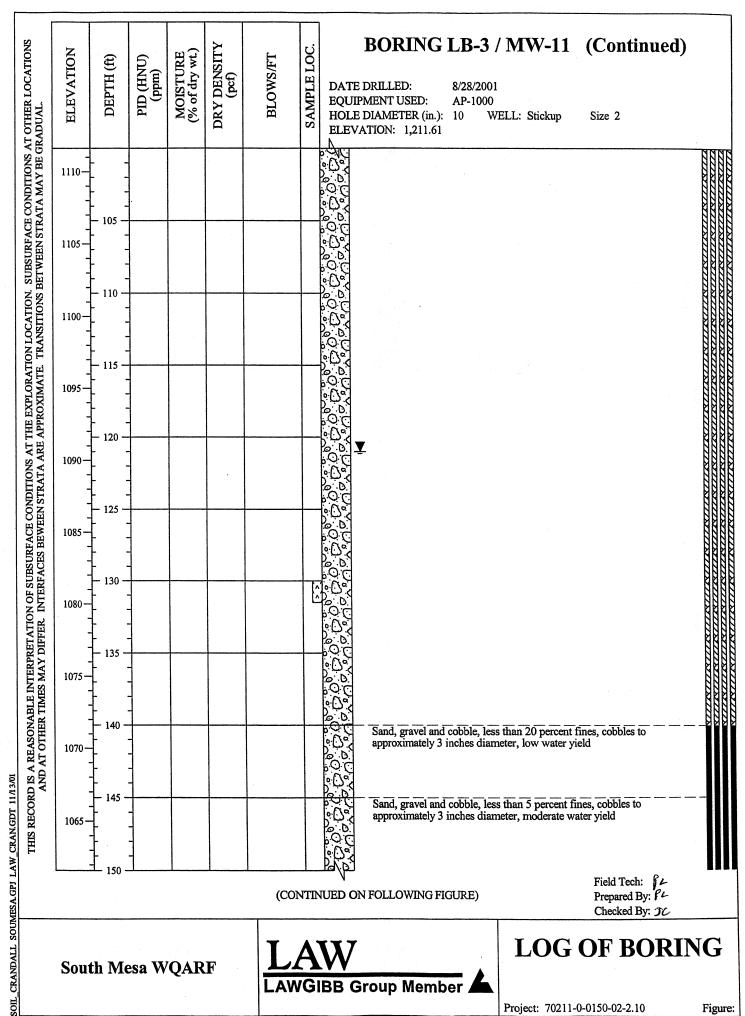


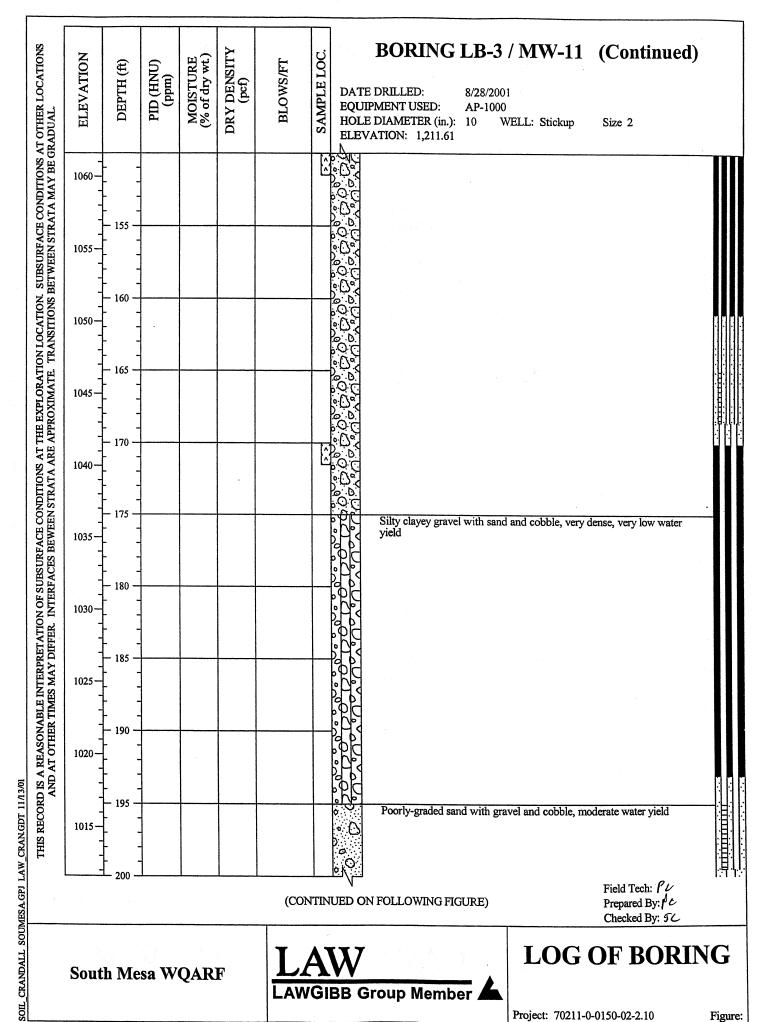
Project: 70211-0-0150-02-2.10

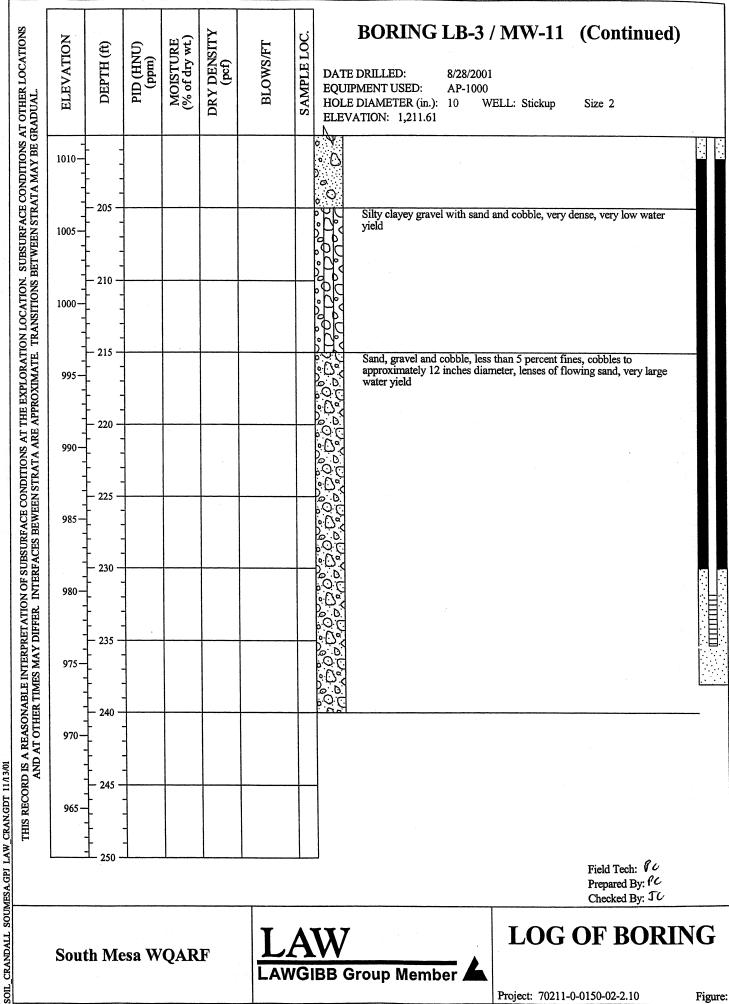




Project: 70211-0-0150-02-2.10 Figure:



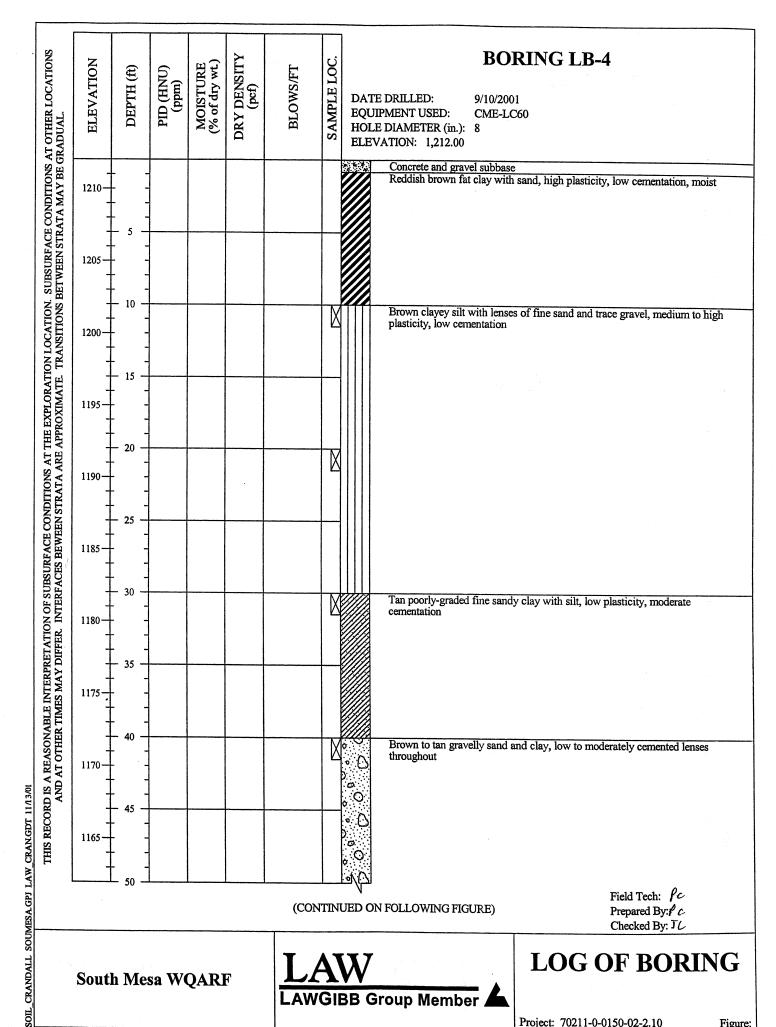


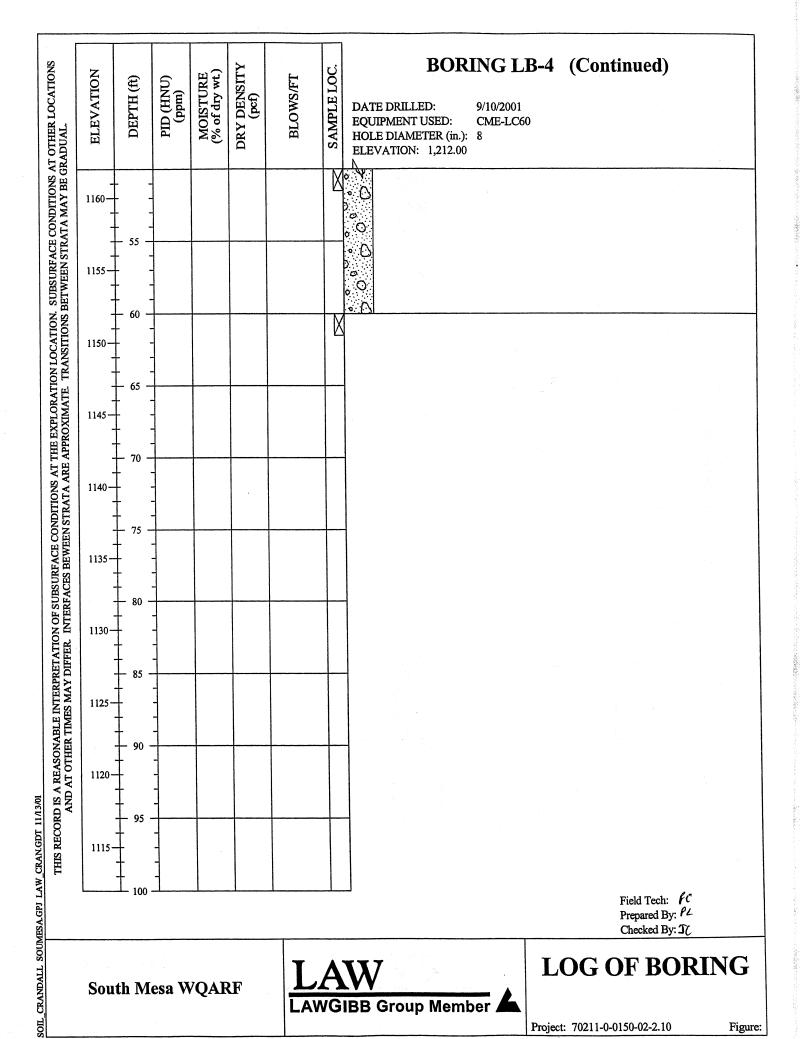


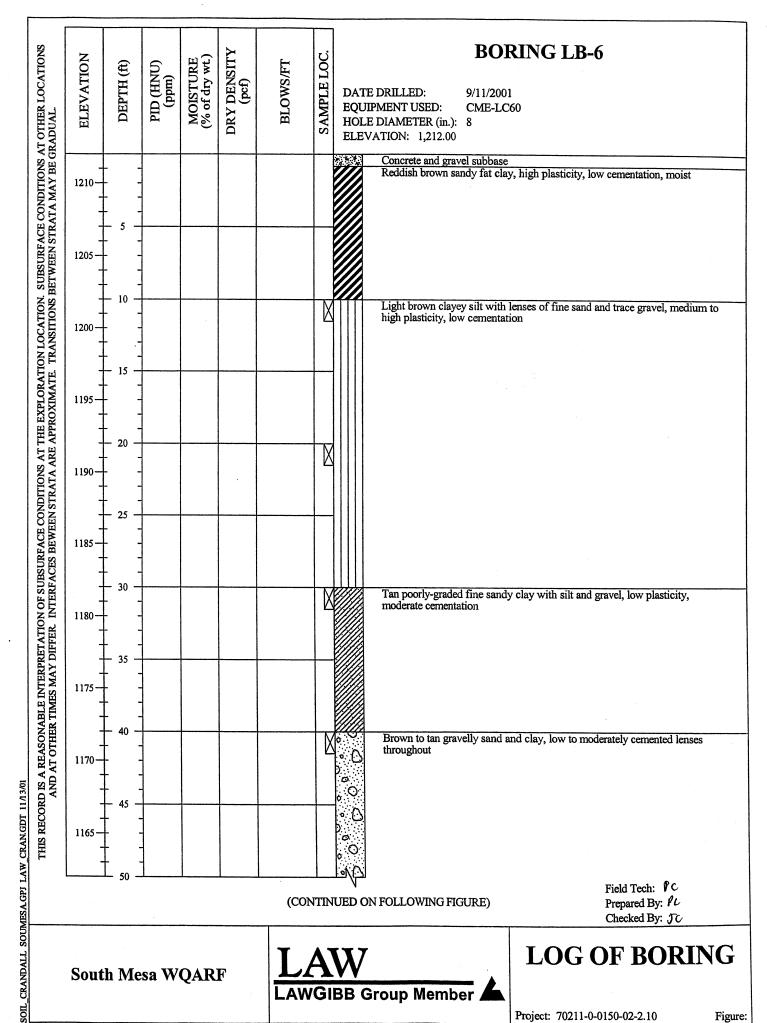
South Mesa WQARF

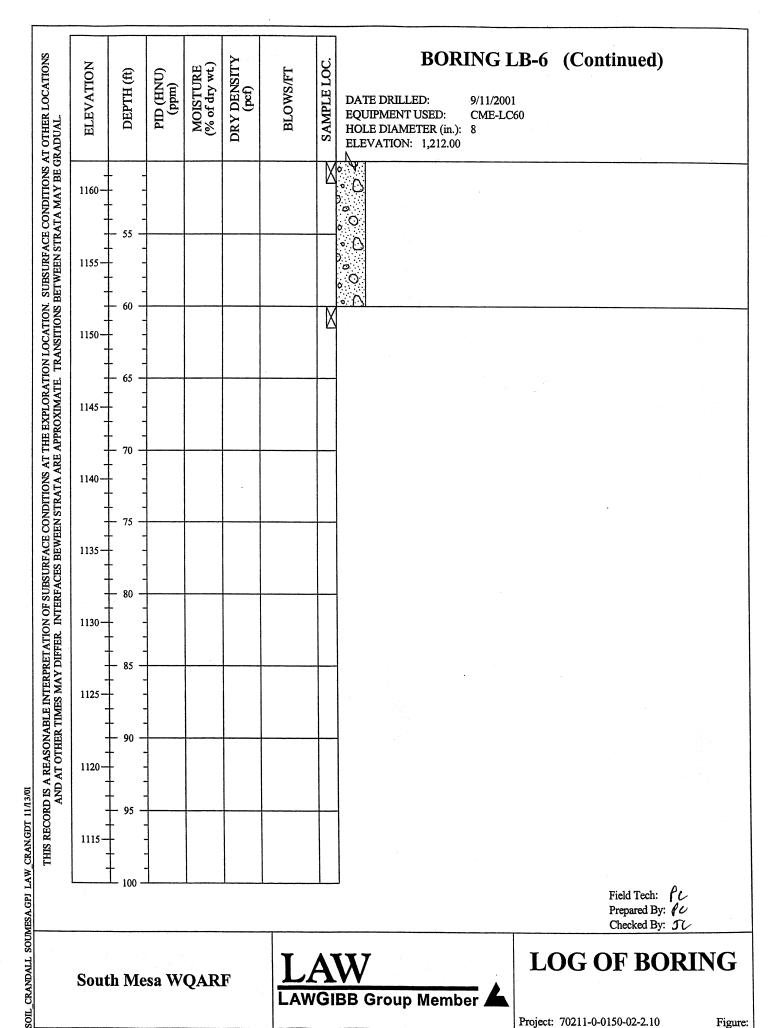


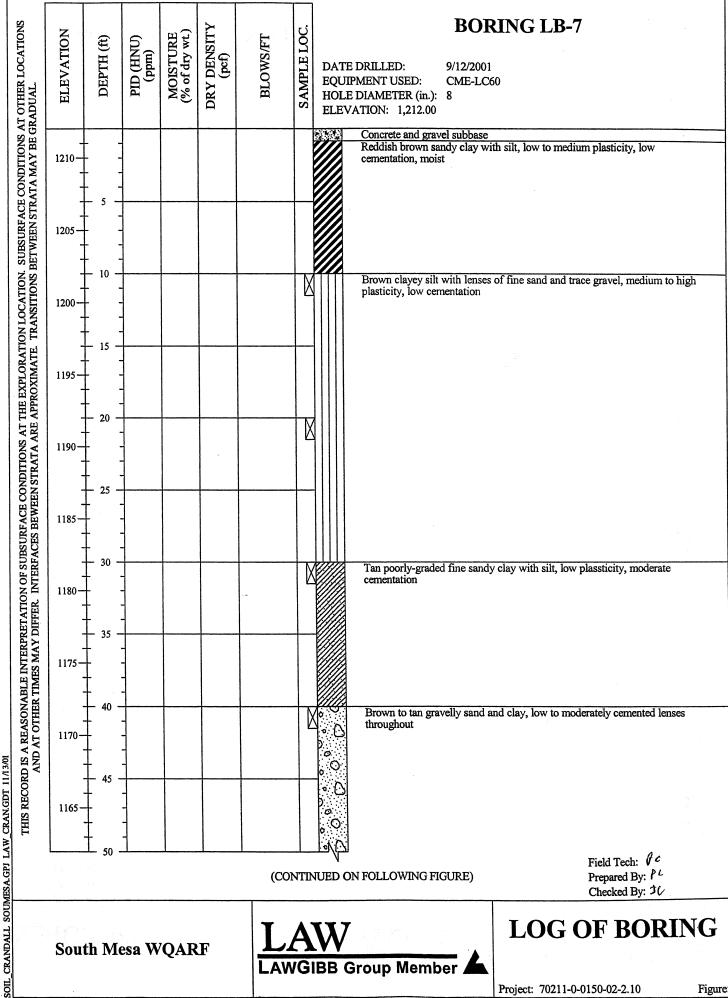
Project: 70211-0-0150-02-2.10



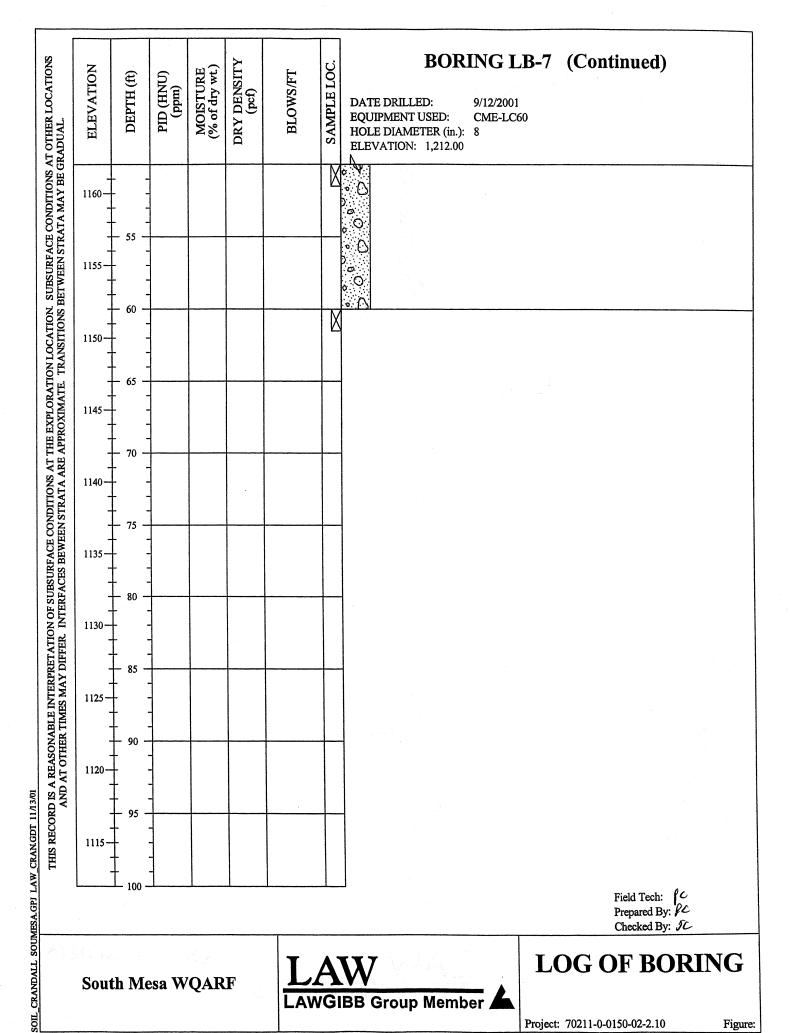


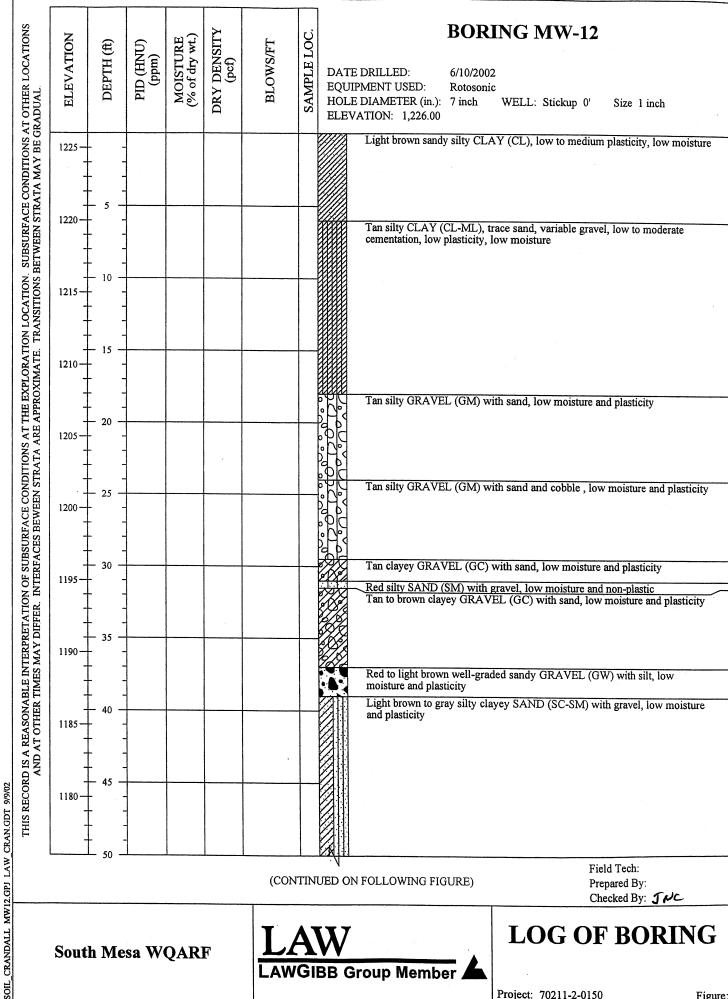








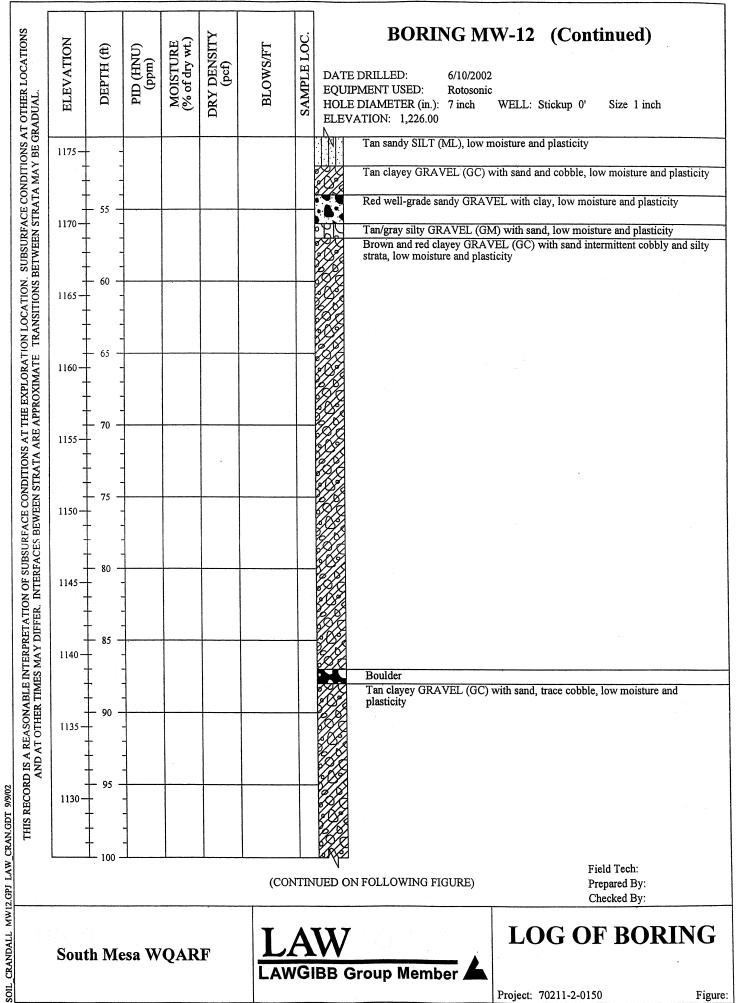


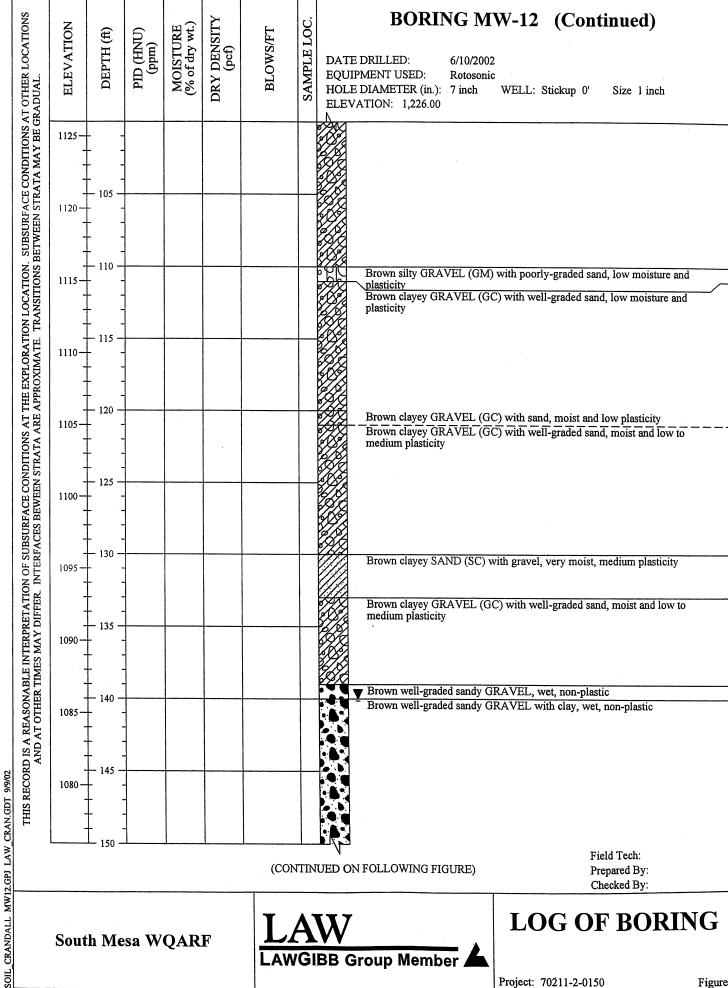


South Mesa WQARF



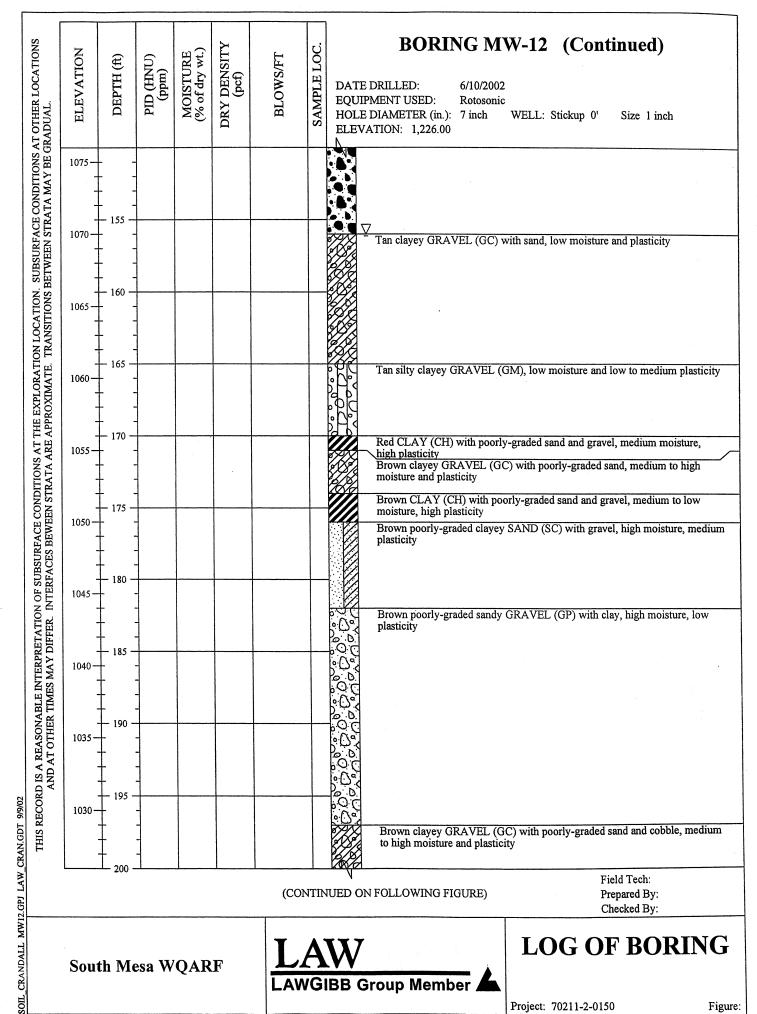
Project: 70211-2-0150



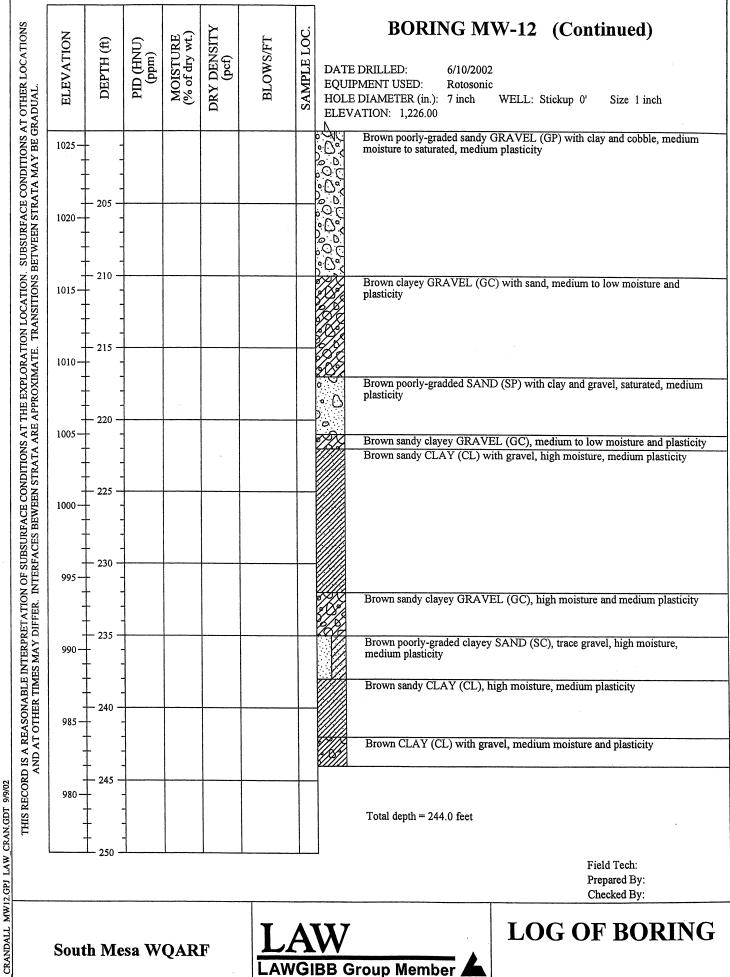


AWGIBB Group Member

Project: 70211-2-0150



Project: 70211-2-0150



South Mesa WQARF

AWGIBB Group Member

Project: 70211-2-0150



APPENDIX J

PRECISION ANALYTICAL LABORATORY TO-15 ANALYTICAL REPORTS



A Division of Aerotech Laboratories, Inc.

July 05, 2002

Jim Clarke Law Engineering 4634 S. 36th Place Phoenix, AZ 85040

RE: South Mesa WQARF/70211-2-0064

Dear Jim Clarke:

Order No.: 02061078

Precision Analytical Laboratories received 7 samples on 6/28/2002 for the analyses presented in the following report.

This report includes the following information:

Ellan Hashcote

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Lee Ann Heathcote

Project Manager



A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

Date: 05-Jul-02

CLIENT:

Law Engineering

Project:

South Mesa WQARF/70211-2-0064

Lab Order:

02061078

CASE NARRATIVE

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992, and 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136 - Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Precision Analytical Laboratories, Inc. (PAL) holds Arizona certification no. AZ0610 and PAL-Tucson holds Arizona certification no. AZ0609.

PAL participates in the AIHA Proficiency Analytical Testing (PAT) program for metals, solvents and formaldehyde.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control objectives for the analyses included in this report.

Data Qualifiers:

Listed below are the data qualifiers used in your analytical report to explain any analytical or quality control issues. You will find them noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

D2 Sample required dilution due to high concentration of target analyte.



A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-01A

Date: 05-Jul-02

Client Sample ID: 4

Tag Number:

Collection Date: 6/27/2002 8:15:00 AM

Matrix: AIR

| Analyses | Result | Limit Qu | al Units | DF | Date Analyzed |
|----------------------------|--------|--------------|----------|-----|---------------|
| VOLATILE ORGANICS IN AIR | | D15 | | | Analyst: SP |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2,4-Trichlorobenzene | < 1.0 | a 1.0 | ppbv | 1 | 6/29/2002 |
| 1,2,4-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | ppbv | - 1 | 6/29/2002 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichloropropane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | ppb∨ | 1 | 6/29/2002 |
| 1,3-Butadiene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,4-Dioxane | < 5.0 | 5.0 | ppbv | 1 | 6/29/2002 |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 2-Butanone (MEK) | 4.3 | 1.0 | ppbv | 1 | 6/29/2002 |
| 2-Hexanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 2-Propanol | 14 | 1.0 | ppbv | . 1 | 6/29/2002 |
| 4-Ethyltoluene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Acetone | 15 | 5.0 | ppbv | 1 | 6/29/2002 |
| Allyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Benzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Benzyl chloride | < 2.0 | 2.0 | ppbv | 1 | 6/29/2002 |
| Bromodichloromethane | < 0.50 | 0.50 | ppb∨ | 1 | 6/29/2002 |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromoform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromomethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Carbon disulfide | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Carbon tetrachloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloroform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Cyclohexane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Dibromochloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 1 of 14

* - Value exceeds Maximum Contaminant Level



A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-01A

Date: 05-Jul-02

Client Sample ID: 4

Tag Number:

Collection Date: 6/27/2002 8:15:00 AM

Matrix: AIR

| Analyses | Result | Limit Qu | ıal Units | DF | Date Analyzed |
|----------------------------------|--------|----------|-----------|----------------------------|---------------|
| VOLATILE ORGANICS IN AIR | | O15 | **** | na filiati i i kale i wesi | Analyst: SP |
| Dichlorodifluoromethane(F-12) | 0.64 | 0.50 | ppbv | 1 | 6/29/2002 |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Heptane | 0.75 | 0.50 | ppbv | 1 | 6/29/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Hexane | 1.3 | 0.50 | ppbv | 1 | 6/29/2002 |
| m&p-Xylene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methyl tert-butyl ether | 1.6 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methylene chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| o-Xylene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Styrene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrachloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Toluene | 4.8 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorofluoromethane(F-11) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Surr: 4-Bromofluorobenzene | 98.9 | 70-130 | %REC | 1 | 6/29/2002 |
| | · - · | | | | |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

E - Value above quantitation range

S - Spike Recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

Page 2 of 14

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019 4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com



A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT: Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-02A

Date: 05-Jul-02

Client Sample ID: 5

Tag Number:

Collection Date: 6/27/2002 8:22:00 AM

Matrix: AIR

| Analyses | Result | Limit Q | ual Units | DF | Date Analyzed | |
|----------------------------|--------|---------|-----------|-----|---------------|--|
| VOLATILE ORGANICS IN AIR | TO15 | | - | | Analyst: SP | |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | ppbv | 1 . | 6/29/2002 | |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 1,1-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 1,1-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 | |
| 1,2,4-Trimethylbenzene | 0.86 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ppbv | 1, | 6/29/2002 | |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | ppbv | . 1 | 6/29/2002 | |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 1,2-Dichloropropane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 1,3-Butadiene | < 0.50 | 0.50 | ppb∨ | 1 | 6/29/2002 | |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 1,4-Dioxane | < 5.0 | 5.0 | ppbv | . 1 | 6/29/2002 | |
| 2,2,4-Trimethylpentane | 0.81 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 2-Butanone (MEK) | 3.1 | 1.0 | ppbv | 1 | 6/29/2002 | |
| 2-Hexanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 | |
| 2-Propanol | 15 | 1.0 | ppbv | 1 | 6/29/2002 | |
| 4-Ethyltoluene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 | |
| Acetone | 12 | 5.0 | ppbv | 1 | 6/29/2002 | |
| Allyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Benzene | 0.74 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Benzyl chloride | < 2.0 | 2.0 | ppbv | 1 | 6/29/2002 | |
| Bromodichloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Bromoform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Bromomethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Carbon disulfide | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Carbon tetrachloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Chlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Chloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Chloroform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Chloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Cyclohexane | 0.78 | 0.50 | ppbv | 1 | 6/29/2002 | |
| Dibromochloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 | |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Page 3 of 14



A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-02A

Date: 05-Jul-02

Client Sample ID: 5

Tag Number:

Collection Date: 6/27/2002 8:22:00 AM

Matrix: AIR

| Analyses | Result | Limit Qu | al Units | DF | Date Analyzed |
|----------------------------------|--------|----------|----------|----|---------------|
| VOLATILE ORGANICS IN AIR | Т | O15 | | | Analyst: SP |
| Dichlorodifluoromethane(F-12) | 0.62 | 0.50 | ppbv | 1 | 6/29/2002 |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethylbenzene | 5.3 | 0.50 | ppbv | 1 | 6/29/2002 |
| Heptane | 1.2 | 0.50 | ppbv | 1 | 6/29/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Hexane | 1.5 | 0.50 | ppbv | 1 | 6/29/2002 |
| m&p-Xylene | 19 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methyl tert-butyl ether | 3.1 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methylene chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| o-Xylene | 5.9 | 0.50 | ppbv | 1 | 6/29/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Styrene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrachloroethene | 2.0 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrahydrofuran | 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Toluene | 22 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorofluoromethane(F-11) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Surr: 4-Bromofluorobenzene | 100 | 70-130 | %REC | 1 | 6/29/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 4 of 14



A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT: Law Engineering

Lab Order:

02061078

South Mesa WQARF/70211-2-0064

Project: Lab ID:

02061078-03A

Date: 05-Jul-02

Client Sample ID: 7

Tag Number:

Collection Date: 6/27/2002 8:31:00 AM

Matrix: AIR

| Analyses | Result | Limit Qu | al Units | DF | Date Analyzed |
|----------------------------|--------|----------|----------|-----|---------------|
| OLATILE ORGANICS IN AIR | T. | D15 | | | Analyst: SP |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 - | 6/29/2002 |
| 1,1-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 1,2,4-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichloropropane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3-Butadiene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,4-Dioxane | < 5.0 | 5.0 | ppbv | 1 | 6/29/2002 |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 2-Butanone (MEK) | 2.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 2-Hexanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 2-Propanol | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 4-Ethyltoluene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Acetone | 24 | 5.0 | ppbv | 1 | 6/29/2002 |
| Allyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Benzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Benzyl chloride | < 2.0 | 2.0 | ppbv | 1 | 6/29/2002 |
| Bromodichloromethane | < 0.50 | 0.50 | ppb∨ | 1 | 6/29/2002 |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | ppb∨ | 1 | 6/29/2002 |
| Bromoform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromomethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Carbon disulfide | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Carbon tetrachloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloroform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Cyclohexane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Dibromochloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* Value exceeds Maximum Contaminant Level

Page 5 of 14



A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-03A

Date: 05-Jul-02

Client Sample ID: 7

Tag Number:

Collection Date:

Collection Date: 6/27/2002 8:31:00 AM

Matrix: AIR

| Analyses | Result | Limit Q | ual Units | DF | Date Analyzed |
|----------------------------------|--------|---------|-----------|----------------------------|---------------|
| VOLATILE ORGANICS IN AIR | Т | O15 | | ter veral valence i i i en | Analyst: SP |
| Dichlorodifluoromethane(F-12) | 0.57 | 0.50 | ppbv | 1 | 6/29/2002 |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethylbenzene | 0.99 | 0.50 | ppbv | 1 | 6/29/2002 |
| Heptane | 0.81 | 0.50 | ppbv | 1 | 6/29/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Hexane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| m&p-Xylene | 3.4 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methyl tert-butyl ether | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methylene chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| o-Xylene | 1.1 | 0.50 | ppbv | 1 | 6/29/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Styrene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrachloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Toluene | 4.0 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorofluoromethane(F-11) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Surr: 4-Bromofluorobenzene | 100 | 70-130 | %REC | 1 | 6/29/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Page 6 of 14



A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT: Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-04A

Date: 05-Jul-02

Client Sample ID: 2

Tag Number:

Collection Date: 6/27/2002 8:44:00 AM

Matrix: AIR

| Analyses | Result | Limit Q | ual Units | DF | Date Analyzed |
|----------------------------|--------|---------|----------------------------|----|---------------|
| OLATILE ORGANICS IN AIR | T(| D15 | return remember virtual en | 2: | Analyst: SP |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 1,2,4-Trimethylbenzene | 0.86 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichloropropane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3-Butadiene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,4-Dioxane | < 5.0 | 5.0 | ppbv | 1 | 6/29/2002 |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 2-Butanone (MEK) | 2.9 | 1.0 | ppbv | 1 | 6/29/2002 |
| 2-Hexanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 2-Propanol | 14 | 1.0 | ppbv | 1 | 6/29/2002 |
| 4-Ethyltoluene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Acetone | 12 | 5.0 | ppbv | 1 | 6/29/2002 |
| Allyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Benzene | 0.60 | 0.50 | ppbv | 1 | 6/29/2002 |
| Benzyl chloride | < 2.0 | 2.0 | ppbv | 1 | 6/29/2002 |
| Bromodichloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromoform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromomethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Carbon disulfide | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Carbon tetrachloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloroform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Cyclohexane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Dibromochloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

Page 7 of 14



A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-04A

Date: 05-Jul-02

Client Sample ID: 2

Tag Number:

Collection Date: 6/27/2002 8:44:00 AM

Matrix: AIR

| Analyses | Result | Limit | Qual Units | DF | Date Analyzed |
|----------------------------------|--------|--------|------------|-----|---------------|
| VOLATILE ORGANICS IN AIR | Т | O15 | | : | Analyst: SP |
| Dichlorodifluoromethane(F-12) | 0.64 | 0.50 | ppbv | 1 | 6/29/2002 |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Heptane | 1.2 | 0.50 | ppbv | 1 | 6/29/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Hexane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| m&p-Xylene | 1.1 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methyl tert-butyl ether | 1.6 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methylene chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| o-Xylene | 0.57 | 0.50 | ppbv | 1 | 6/29/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Styrene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrachloroethene | 57 | 2.5 | D2 ppbv | 5 | 6/30/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Toluene | 1.8 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichloroethene | 0.94 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorofluoromethane(F-11) | 2.6 | 0.50 | ppbv | . 1 | 6/29/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Surr: 4-Bromofluorobenzene | 98.7 | 70-130 | %REC | 1 | 6/29/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 8 of 14



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Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-05A

Date: 05-Jul-02

Client Sample ID: 3

Tag Number:

Collection Date: 6/27/2002 8:49:00 AM

Matrix: AIR

| Analyses | Result | Limit Qu | al Units | DF | Date Analyzed |
|----------------------------|--------|----------|----------|-----|--------------------|
| VOLATILE ORGANICS IN AIR | T | O15 | | | Analyst: SP |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 1,2,4-Trimethylbenzene | 1.7 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ppbv | . 1 | 6/29/2002 |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichloropropane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3-Butadiene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,4-Dioxane | < 5.0 | 5.0 | ppbv | 1 | 6/29/2002 |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 2-Butanone (MEK) | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 2-Hexanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 2-Propanol | 16 | 1.0 | ppbv | 1 | 6/29/2002 |
| 4-Ethyltoluene | 0.53 | 0.50 | ppbv | 1 | 6/29/2002 |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Acetone | 11 | 5.0 | ppbv | 1 | 6/29/2002 |
| Allyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Benzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Benzyl chloride | < 2.0 | 2.0 | ppbv | . 1 | 6/29/2002 |
| Bromodichloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromoform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromomethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Carbon disulfide | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Carbon tetrachloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloroform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Cyclohexane | < 0.50 | 0.50 | ppb∨ | 1 | 6/29/2002 |
| Dibromochloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

E - Value above quantitation range

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

Page 9 of 14

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A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-05A

Date: 05-Jul-02

Client Sample ID: 3

Tag Number:

Collection Date: 6/27/2002 8:49:00 AM

Matrix: AIR

| Analyses | Result | Limit Qu | al Units | DF | Date Analyzed |
|----------------------------------|--------|----------|----------|----------|---------------|
| VOLATILE ORGANICS IN AIR | T | O15 | | | Analyst: SP |
| Dichlorodifluoromethane(F-12) | 0.64 | 0.50 | ppbv | 1 | 6/29/2002 |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Heptane | 0.86 | 0.50 | ppbv | 1 | 6/29/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Hexane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| m&p-Xylene | 1.1 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methyl tert-butyl ether | 1.3 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methylene chloride | 5.1 | 0.50 | ppbv | 1 | 6/29/2002 |
| o-Xylene | 0.60 | 0.50 | ppbv | 1 | 6/29/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Styrene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrachloroethene | 16 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Toluene | 1.4 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichloroethene | 0.81 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorofluoromethane(F-11) | 1.6 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Surr: 4-Bromofluorobenzene | 98.5 | 70-130 | %REC | 1 | 6/29/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 10 of 14

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A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-06A

Date: 05-Jul-02

Client Sample ID: 1

Tag Number:

Collection Date: 6/27/2002 8:52:00 AM

Matrix: AIR

| Analyses | Result | Limit Qu | al Units | DF | Date Analyzed |
|----------------------------|--------|----------|----------|--------|------------------------|
| OLATILE ORGANICS IN AIR | TO | D15 | 4. 2. | | Analyst: SP |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,1-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 1,2,4-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | ppbv | ·· 1 | 6/29/2002 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,2-Dichloropropane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3-Butadiene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 1,4-Dioxane | < 5.0 | 5.0 | ppbv | 1 | 6/29/2002 |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 2-Butanone (MEK) | 2.8 | 1.0 | ppbv | 1 | 6/29/2002 |
| 2-Hexanone | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| 2-Propanol | 4.3 | 1.0 | ppbv | 1 | 6/29/2002 |
| 4-Ethyltoluene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | ppb∨ | 1 | 6/29/2002 |
| Acetone | 12 | 5.0 | ppb∨ | 1 | 6/29/2002 |
| Allyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Benzene | 0.53 | 0.50 | ppbv | 1 | 6/29/2002 |
| Benzyl chloride | < 2.0 | 2.0 | ppbv | 1 | 6/29/2002 |
| Bromodichloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromoform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Bromomethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Carbon disulfide | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Carbon tetrachloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloroform | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Chloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | | 6/29/2002 |
| Cyclohexane | 0.53 | 0.50 | ppbv | 1 | |
| Dibromochloromethane | < 0.50 | 0.50 | ppbv | 1 1 | 6/29/2002 6/29/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 11 of 14

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A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-06A

Date: 05-Jul-02

Client Sample ID: 1

Tag Number:

Collection Date: 6/27/2002 8:52:00 AM

Matrix: AIR

| Analyses | Result | Limit Q | ual Units | DF | Date Analyzed |
|----------------------------------|--------|---------|-----------|--|---------------|
| VOLATILE ORGANICS IN AIR |) | O15 | | and the second s | Analyst: SP |
| Dichlorodifluoromethane(F-12) | 0.62 | 0.50 | ppbv | 1 | 6/29/2002 |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Heptane | 0.71 | 0.50 | ppbv | 1 | 6/29/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Hexane | 0.69 | 0.50 | ppbv | . 1 | 6/29/2002 |
| m&p-Xylene | 1.6 | 1.0 | ppbv | 1 - | 6/29/2002 |
| Methyl tert-butyl ether | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Methylene chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| o-Xylene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Styrene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrachloroethene | 20 | 0.50 | ppbv | 1 | 6/29/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | ppbv | 1 | 6/29/2002 |
| Toluene | 1.8 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichloroethene | 0.97 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorofluoromethane(F-11) | 2.0 | 0.50 | ppbv | 1 | 6/29/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl acetate | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Vinyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/29/2002 |
| Surr: 4-Bromofluorobenzene | 98.6 | 70-130 | %REC | 1 | 6/29/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

 \boldsymbol{B} - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

02001070

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-07A

Date: 05-Jul-02

Client Sample ID: 6

Tag Number:

Collection Date: 6/27/2002 8:56:00 AM

Matrix: AIR

| Analyses | Result | Limit Qu | al Units | DF | Date Analyzed |
|----------------------------|--------|----------|----------|----|---------------|
| VOLATILE ORGANICS IN AIR | TC | 015 | | | Analyst: SP |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,1-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,1-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | ppbv | 1 | 6/30/2002 |
| 1,2,4-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,2-Dichloropropane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,3-Butadiene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 1,4-Dioxane | < 5.0 | 5.0 | ppbv | 1 | 6/30/2002 |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 2-Butanone (MEK) | 2.8 | 1.0 | ppbv | 1 | 6/30/2002 |
| 2-Hexanone | < 1.0 | 1.0 | ppbv | 1 | 6/30/2002 |
| 2-Propanol | 4.4 | 1.0 | ppbv | 1 | 6/30/2002 |
| 4-Ethyltoluene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | ppbv | 1 | 6/30/2002 |
| Acetone | 21 | 5.0 | ppbv | 1 | 6/30/2002 |
| Allyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Benzene | 0.64 | 0.50 | ppbv | 1 | 6/30/2002 |
| Benzyl chloride | < 2.0 | 2.0 | ppbv | 1 | 6/30/2002 |
| Bromodichloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Bromoform | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Bromomethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Carbon disulfide | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Carbon tetrachloride | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Chlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Chloroethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Chloroform | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Chloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Cyclohexane | 0.68 | 0.50 | ppbv | 1 | 6/30/2002 |
| Dibromochloromethane | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

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A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

CLIENT:

Law Engineering

Lab Order:

02061078

Project:

South Mesa WQARF/70211-2-0064

Lab ID:

02061078-07A

Date: 05-Jul-02

Client Sample ID: 6

Tag Number:

Collection Date: 6/27/2002 8:56:00 AM

Matrix: AIR

| Analyses | Result | Limit Qu | ual Units | DF | Date Analyzed |
|----------------------------------|--------|----------|-----------|----|---------------|
| VOLATILE ORGANICS IN AIR | T | O15 | | | Analyst: SP |
| Dichlorodifluoromethane(F-12) | 0.66 | 0.50 | ppbv | 1 | 6/30/2002 |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Heptane | 0.67 | 0.50 | ppb∨ | 1 | 6/30/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | ppbv | 1 | 6/30/2002 |
| Hexane | 0.86 | 0.50 | ppbv | 1 | 6/30/2002 |
| m&p-Xylene | < 1.0 | 1.0 | ppbv | 1 | 6/30/2002 |
| Methyl tert-butyl ether | 2.2 | 1.0 | ppbv | 1 | 6/30/2002 |
| Methylene chloride | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| o-Xylene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Styrene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Tetrachloroethene | 5.5 | 0.50 | ppbv | 1 | 6/30/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | ppbv | 1 | 6/30/2002 |
| Toluene | 2.3 | 0.50 | ppbv | 1 | 6/30/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Trichloroethene | 0.76 | 0.50 | ppbv | 1 | 6/30/2002 |
| Trichlorofluoromethane(F-11) | 2.3 | 0.50 | ppbv | 1 | 6/30/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Vinyl acetate | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Vinyl chloride | < 0.50 | 0.50 | ppbv | 1 | 6/30/2002 |
| Surr: 4-Bromofluorobenzene | 98.2 | 70-130 | %REC | 1 | 6/30/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Law Engineering CLIENT:

02061078 Work Order:

Project:

South Mesa WQARF/70211-2-0064

ANALYTICAL QC SUMMARY REPORT

Date: 05-Jul-02

TestCode: TO15

| Sample ID MB-R24682 | SampType: MBLK | TestCode: TO15 | Units: ppbv | Prep Date: | Run ID: MS04_020629A |
|----------------------------|------------------|----------------|-------------|-------------------------------------|----------------------|
| Client ID: ZZZZZ | Batch ID: R24682 | TestNo: T015 | | Analysis Date: 6/29/2002 | SeqNo: 266705 |
| Analyte | Result | PQL SPK value | SPK Ref Val | %REC LowLimit HighLimit RPD Ref Val | %RPD RPDLimit Qual |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | | | |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | | | |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | | | |
| 1,1-Dichloroethane | < 0.50 | 0,50 | | | |
| 1,1-Dichloroethene | < 0.50 | 0.50 | | | |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | | | |
| 1,2,4-Trimethylbenzene | < 0.50 | 0.50 | | | |
| 1,2-Dibromoethane | < 0.50 | 0.50 | | | |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | | | |
| 1,2-Dichloroethane | < 0.50 | 0.50 | | | |
| 1,2-Dichloropropane | < 0.50 | 0.50 | | | |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | | | |
| 1,3-Butadiene | < 0.50 | 0.50 | | | |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | | | |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | | | |
| 1,4-Dioxane | < 5.0 | 5.0 | | | |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | | | |
| 2-Butanone (MEK) | < 1.0 | 1.0 | | | |
| 2-Hexanone | < 1.0 | 1.0 | | | |
| 2-Propanol | < 1.0 | 1.0 | | | |
| 4-Ethyltoluene | < 0.50 | 0.50 | | | |
| 4-Methyl-2-pentanone | < 1.0 | 0.1 | | | |
| Acetone | < 5.0 | 5.0 | | | |
| Allyl chloride | 0.50 | 0.50 | | | |
| Benzene | < 0.50 | 0.50 | | | |
| Benzyl chloride | < 2.0 | 2.0 | | | |
| Bromodichloromethane | < 0.50 | 0.50 | | | |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | | | |
| Bromoform | < 0.50 | 0.50 | | | |
| Bromomethane | < 0.50 | 0.50 | | | |
| Carbon disulfide | < 0.50 | 0.50 | | | |

Page 2 of 6

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

| TestCode: TO15 Units: ppbv Prep Date: Run ID: MS04_020629A | 2000 COND. 2000 COND. COND. 2000 COND. 2000 COND. |
|--|---|
| TestCode: TO15 | |
| SampType: MBLK | |
| Sample ID MB-R24682 | |

Law Engineering 02061078 South Mesa WQARF/70211-2-0064

Work Order: CLIENT:

Project:

| Sample ID MB-R24682 | SampType: MBLK | TestCo | TestCode: T015 | Units: ppbv | | Prep Date: | | Run ID: MS | Run ID: MS04_020629A | |
|----------------------------------|-------------------------|--------|----------------|-------------|------|----------------|-----------------------|----------------------|----------------------|------|
| Client ID: ZZZZZ | Batch ID: R24682 | Test | TestNo: TO15 | | | Analysis Date: | 6/29/2002 | SeqNo: 266705 | 3705 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit Hig | HighLimit RPD Ref Val | %RPD | RPDLimit | Qual |
| Carbon tetrachloride | < 0.50 | 0.50 | | | | · | | | | |
| Chlorobenzene | < 0.50 | 0.50 | | | | | | | | |
| Chloroethane | < 0.50 | 0.50 | | | | | | | | |
| Chloroform | < 0.50 | 0.50 | | | | | | | | |
| Chloromethane | < 0.50 | 0.50 | | | | | | | | |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | | | | | | | | |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | | | | | | | | |
| Cyclohexane | < 0.50 | 0.50 | | | | | | | | |
| Dibromochloromethane | < 0.50 | 0.50 | | | | | | | | |
| Dichlorodifluoromethane(F-12) | < 0.50 | 0.50 | | | | | | | | |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | | | | | | | | |
| Ethyl Acetate | < 0.50 | 0.50 | | | | | | | | |
| Ethylbenzene | < 0.50 | 0.50 | | | | | | | | |
| Heptane | < 0.50 | 0.50 | | | | | | | | |
| Hexachlorobutadiene | < 1.0 | 1.0 | | | | | | | | |
| Hexane | < 0.50 | 0.50 | | | | | | | | |
| m&p-Xylene | < 1.0 | 1.0 | | | | | | | | |
| Methyl tert-butyl ether | < 1.0 | 1.0 | | | | | | | | |
| Methylene chloride | < 0.50 | 0.50 | | | | | | | | |
| o-Xylene | < 0.50 | 0.50 | | | | | | | | |
| Propene (Propylene) | < 0.50 | 0.50 | | | | | | | | |
| Styrene | < 0.50 | 0.50 | | | | | | | | |
| Tetrachloroethene | < 0.50 | 0.50 | | | | | | | | |
| Tetrahydrofuran | < 1.0 | 1.0 | | | | | | | | |
| Toluene | < 0.50 | 0.50 | | | | | | | | |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | | | | | | | | |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | | | | | | | | |
| Trichloroethene | < 0.50 | 0.50 | | | | | | | | |
| Trichlorofluoromethane(F-11) | < 0.50 | 0.50 | | | | | | | | |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | | | | | | | | |
| Vinyl acetate | < 0.50 | 0.50 | | | | | | | | |
| Vinyl chloride | < 0.50 | 0.50 | | | 1 | 1 | | | | |
| Surr: 4-Bromofluorobenzene | 9.37 | 0.50 | 10 | 0 | 93.7 | 9/ | 0 051 | > | | |

Page 3 of 6

ANALYTICAL QC SUMMARY REPORT

Law Engineering 02061078 South Mesa WQARF/70211-2-0064

Work Order: CLIENT:

Project:

TestCode: TO15

| | + | + | Total TOAR | lotto. | | Drop Date. | | | M. Claig | Prin ID: MSnA nongoa | |
|----------------------------|------------------|-------|--------------|-------------|------|----------------|-----------|-------------|----------------------|----------------------|------|
| Sample ID LCS-K24682 | Sampiype: LCS | oolsa | ne. 1013 | oute. ppp | | רופט טמופי | | | | | |
| Client ID: ZZZZZ | Batch ID: R24682 | Test | TestNo: TO15 | | · · | Analysis Date: | 6/29/2002 | 02 | SeqNo: 267029 | 7029 | |
| Analyte | Result | Pol | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | 8.82 | 0.50 | 10 | 0 | 88.2 | 65 | 135 | 0 | 0 | | |
| 1,1,2,2-Tetrachloroethane | 9.26 | 0.50 | 10 | 0 | 97.6 | 65 | 135 | 0 | 0 | | |
| 1,1,2-Trichloroethane | 8.87 | 0.50 | 10 | 0 | 88.7 | 65 | 135 | 0 | 0 | | |
| 1,1-Dichloroethane | 8.67 | 0.50 | 10 | 0 | 86.7 | 92 | 135 | 0 | 0 | | |
| 1,1-Dichloroethene | 8.67 | 0.50 | 10 | 0 | 86.7 | 65 | 135 | 0 | 0 | | |
| 1,2,4-Trichlorobenzene | 6.6 | 1.0 | 10 | 0 | 93 | 65 | 135 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 9.52 | 0.50 | 10 | 0 | 95.2 | 65 | 135 | 0 | 0 | | |
| 1,2-Dibromoethane | 8.78 | 0.50 | 10 | 0 | 87.8 | 65 | 135 | 0 | 0 | | |
| 1,2-Dichlorobenzene | 9.13 | 0.50 | 10 | 0 | 91.3 | 65 | 135 | 0 | 0 | | |
| 1,2-Dichloroethane | 8.13 | 0.50 | 10 | 0 | 81.3 | 65 | 135 | 0 | 0 | | |
| 1.2-Dichloropropane | 9.02 | 0.50 | 10 | 0 | 90.2 | 65 | 135 | 0 | 0 | | |
| 1.3.5-Trimethylbenzene | 9.37 | 0.50 | 10 | 0 | 93.7 | 65 | 135 | 0 | 0 | | |
| 1,3-Butadiene | 8.09 | 0.50 | 10 | 0 | 80.9 | 92 | 135 | 0 | 0 | | |
| 1,3-Dichlorobenzene | 9,12 | 0.50 | 10 | 0 | 91.2 | 65 | 135 | 0 | 0 | | |
| 1,4-Dichlorobenzene | 9.18 | 0.50 | 10 | 0 | 91.8 | 65 | 135 | 0 | 0 | | |
| 1,4-Dioxane | 10.19 | 5.0 | 10 | 0 | 102 | 65 | 135 | 0 | 0 | | |
| 2.2.4-Trimethylpentane | 9.03 | 0.50 | 10 | 0 | 90.3 | 65 | 135 | 0 | 0 | | |
| 2-Butanone (MEK) | 9.11 | 1.0 | 10 | 0 | 91.1 | 65 | 135 | 0 | 0 | | |
| 2-Hexanone | 8.48 | 1.0 | 10 | 0 | 84.8 | 65 | 135 | 0 | 0 | | |
| 2-Propanol | 9.54 | 1.0 | 10 | 0 | 95.4 | 65 | 135 | 0 | 0 | | |
| 4-Ethyltoluene | 9.31 | 0.50 | 10 | 0 | 93.1 | 65 | 135 | 0 | 0 | | |
| 4-Methyl-2-pentanone | 9.27 | 1.0 | 10 | 0 | 92.7 | 65 | 135 | 0 | 0 | | |
| Acetone | 7.8 | 2.0 | 10 | 0 | 78 | 65 | 135 | 0 | 0 | | |
| Allyl chloride | 8.9 | 0.50 | 10 | 0 | 88 | 65 | 135 | 0 | 0 | | |
| Benzene | 9.03 | 0.50 | 10 | 0 | 90.3 | 65 | 135 | 0 | 0 | | |
| Benzyl chloride | 8.38 | 2.0 | 10 | 0 | 83.8 | 65 | 135 | 0 | 0 | | |
| Bromodichloromethane | 8.87 | 0.50 | 10 | 0 | 88.7 | 65 | 135 | 0 | 0 | | |
| Bromoethene(Vinyl Bromide) | 8.26 | 0.50 | 10 | 0 | 82.6 | 65 | 135 | 0 | 0 | | |
| Bromoform | 9.14 | 0.50 | 10 | 0 | 91.4 | 65 | 135 | 0 | 0 | | |
| Bromomethane | 2.98 | 0.50 | 10 | 0 | 79.8 | 65 | 135 | 0 | 0 | | |
| Carbon disulfide | 8.56 | 0.50 | 9 | 0 | 85.6 | 65 | 135 | 0 | | | |
| Carbon tetrachloride | 8.69 | 0.50 | 10 | 0 | 86.9 | 65 | 135 | 0 | 0 | | |
| Chlorobenzene | 8.8 | 0.50 | 10 | 0 | 88 | 92 | 135 | 0 | 0 | | |

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ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

Law Engineering 02061078 Work Order: CLIENT:

Project:

South Mesa WQARF/70211-2-0064

| Sample ID 1 CS-R24682 | SampType: LCS | TestCo | TestCode: T015 | Units: ppbv | | Prep Date: | | | Run ID: MS | Run ID: MS04_020629A | |
|----------------------------------|-------------------------|--------|----------------|-------------|------|----------------|-------------|-------------|---------------|----------------------|------|
| Client ID: ZZZZZ | Batch ID: R24682 | Test | TestNo: TO15 | | | Analysis Date: | : 6/29/2002 | 02 | SeqNo: 267029 | 7029 | |
| Analyte | Result | Pol | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloroethane | 7.19 | 0.50 | 10 | 0 | 71.9 | 65 | 135 | 0 | 0 | | |
| Chloroform | 8.68 | 0.50 | 10 | 0 | 86.8 | 65 | 135 | 0 | 0 | | |
| Chloromethane | 8,21 | 0.50 | 10 | 0 | 82.1 | 65 | 135 | 0 | 0 | | |
| cis-1.2-Dichloroethene | 8.69 | 0.50 | 10 | 0 | 86.9 | 65 | 135 | 0 | 0 | | |
| cis-1,3-Dichloropropene | 9.43 | 0.50 | 10 | 0 | 94.3 | 92 | 135 | 0 | 0 | | |
| Cyclohexane | 9.06 | 0.50 | 10 | 0 | 90.6 | 65 | 135 | 0 | 0 | | |
| Dibromochloromethane | 8.83 | 0.50 | 10 | 0 | 88.3 | 65 | 135 | 0 | 0 | | |
| Dichlorodifluoromethane(F-12) | 7.38 | 0.50 | 10 | 0 | 73.8 | 65 | 135 | 0 | 0 | | |
| Dichlorotetrafluoroethane(F-114) | 8.06 | 0.50 | 10 | 0 | 80.6 | 92 | 135 | 0 | 0 | | |
| Ethyl Acetate | 9.44 | 0.50 | 10 | 0 | 94.4 | 92 | 135 | 0 | 0 | | |
| Ethylbenzene | 9.28 | 0.50 | 10 | 0 | 92.8 | 92 | 135 | 0 | 0 | | |
| Heptane | 8.89 | 0.50 | 10 | 0 | 88.9 | 65 | 135 | 0 | 0 | | |
| Hexachlorobutadiene | 8.86 | 1.0 | 10 | 0 | 88.6 | 65 | 135 | 0 | 0 | | |
| Hexane | 9.42 | 0.50 | 10 | 0 | 94.2 | 65 | 135 | 0 | 0 | | |
| m&n-Xvlene | 18.69 | 1.0 | 20 | 0 | 93.4 | 65 | 135 | 0 | 0 | | |
| Methyl tert-butyl ether | 8.16 | 1.0 | 10 | 0 | 81.6 | 65 | 135 | 0 | 0 | | |
| Methylene chloride | 8.53 | 0.50 | 10 | 0 | 85.3 | 65 | 135 | 0 | 0 | | |
| o-Xvlene | 9:36 | 0.50 | 10 | 0 | 93.6 | 65 | 135 | 0 | 0 | | |
| Propene (Propylene) | 7.67 | 0.50 | 10 | 0 | 76.7 | 92 | 135 | 0 | 0 | | |
| Strene | 9.29 | 0.50 | 10 | 0 | 92.9 | 65 | 135 | 0 | 0 | | |
| Tetrachloroethene | 8.77 | 0.50 | 10 | 0 | 87.7 | 92 | 135 | 0 | 0 | | |
| Tetrahydrofuran | 9.24 | 1.0 | 10 | 0 | 92.4 | 92 | 135 | 0 | 0 | | |
| Toluene | 9.13 | 0.50 | 10 | 0 | 91.3 | 9 | 135 | 0 | 0 | | |
| trans-1.2-Dichloroethene | 8.58 | 0.50 | 10 | 0 | 82.8 | 65 | 135 | 0 | 0 | | |
| trans-1.3-Dichloropropene | 9.28 | 0.50 | 10 | 0 | 92.8 | 92 | 135 | 0 | 0 | | |
| Trichloroethene | 8.76 | 0.50 | 10 | 0 | 87.6 | 65 | 135 | 0 | 0 | | |
| Trichlorofluoromethane(F-11) | 9.63 | 0.50 | 10 | 0 | 96.3 | 65 | 135 | 0 | 0 | | |
| Trichlorotrifluoroethane(F-113) | 8.59 | 0.50 | 10 | 0 | 85.9 | 929 | 135 | 0 | 0 | | |
| Vinvl acetate | 9,54 | 0.50 | 10 | 0 | 95.4 | 65 | 135 | 0 | 0 | | |
| Vinvi chloride | 7.45 | 0.50 | 10 | 0 | 74.5 | 92 | 135 | 0 | 0 | | |
| Surr: 4-Bromofluorobenzene | 66.6 | 0.50 | 10 | 0 | 6.66 | 20 | 130 | 0 | 0 | | |

Page 5 of 6

Law Engineering CLIENT:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

02061078 Work Order:

South Mesa WQARF/70211-2-0064 Project:

| Sample ID LCSD-R24682 | SampType: LCSD | TestCoc | TestCode: TO15 | Units: ppbv | | Prep Date: | | | Run ID: MS | Run ID: MS04_020629A | , |
|----------------------------|-------------------------|---------|----------------|-------------|------|----------------|-----------|-------------|----------------------|----------------------|------|
| Client ID: ZZZZZ | Batch ID: R24682 | Test | TestNo: T015 | | | Analysis Date: | 6/29/2002 | 02 | SeqNo: 267030 | 030 | |
| Analyte | Result | Pol | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1 1 1-Trichloroethane | 8.75 | 0.50 | 10 | 0 | 87.5 | 65 | 135 | 8.82 | 0.797 | 25 | |
| 1.1.2.2-Tetrachloroethane | 8.98 | 0.50 | 10 | 0 | 89.8 | 65 | 135 | 9.26 | 3.07 | 25 | |
| 1.1.2-Trichloroethane | 8.79 | 0.50 | 10 | 0 | 87.9 | 65 | 135 | 8.87 | 906.0 | 25 | |
| 1.1-Dichloroethane | 8.69 | 0.50 | 10 | 0 | 86.9 | 99 | 135 | 8.67 | 0.230 | 22 | |
| 1.1-Dichloroethene | 8.87 | 0.50 | 10 | 0 | 88.7 | 65 | 135 | 8.67 | 2.28 | 25 | |
| 1.2.4-Trichlorobenzene | 9.41 | 1.0 | 10 | 0 | 94.1 | 65 | 135 | 9.3 | 1.18 | 25 | |
| 1.2.4-Trimethylbenzene | 9.54 | 0.50 | 10 | 0 | 95.4 | 65 | 135 | 9.52 | 0.210 | 25 | |
| 1.2-Dibromoethane | 8.73 | 0.50 | 10 | 0 | 87.3 | 65 | 135 | 8.78 | 0.571 | 25 | |
| 1.2-Dichlorobenzene | 9.12 | 0.50 | 10 | 0 | 91.2 | 65 | 135 | 9.13 | 0.110 | 25 | |
| 1,2-Dichloroethane | 8.21 | 0.50 | 10 | 0 | 82.1 | 65 | 135 | 8.13 | 0.979 | 22 | |
| 1,2-Dichloropropane | 8.97 | 0.50 | 10 | 0 | 89.7 | 65 | 135 | 9.05 | 0.556 | 22 | |
| 1.3.5-Trimethylbenzene | 9.41 | 0.50 | 10 | 0 | 94.1 | 65 | 135 | 9.37 | 0.426 | 22 | |
| 1.3-Butadiene | 8.8 | 0.50 | 10 | 0 | 88 | 65 | 135 | 8.09 | 8.41 | 22 | |
| 1,3-Dichlorobenzene | 6.07 | 0.50 | 10 | 0 | 90.7 | 65 | 135 | 9.12 | 0.550 | 22 | |
| 1,4-Dichlorobenzene | 9.14 | 0.50 | 10 | 0 | 91.4 | 65 | 135 | 9.18 | 0.437 | 22 | |
| 1.4-Dioxane | 10.95 | 5.0 | 10 | 0 | 110 | 65 | 135 | 10.19 | 7.19 | 22 | |
| 2.2.4-Trimethylpentane | 9.17 | 0.50 | 10 | 0 | 91.7 | 65 | 135 | 9.03 | 1.54 | 22 | |
| 2-Butanone (MEK) | 6 | 1.0 | 10 | 0 | 06 | 65 | 135 | 9.11 | 1.21 | 22 | |
| 2-Hexanone | 8.82 | 1.0 | 10 | 0 | 88.2 | 65 | 135 | 8.48 | 3,93 | 22 | |
| 2-Propanol | 10.04 | 1.0 | 10 | 0 | 100 | 65 | 135 | 9.54 | 5.11 | 22 | |
| 4-Ethyltoluene | 9.33 | 0.50 | 10 | 0 | 93.3 | 65 | 135 | 9.31 | 0.215 | 22 | |
| 4-Methyl-2-pentanone | 9.55 | 1.0 | 10 | 0 | 95.5 | 65 | 135 | 9.27 | 2.98 | 22 | |
| Acetone | 7.96 | 5.0 | 10 | 0 | 79.6 | 65 | 135 | 7.8 | 2.03 | 25 | |
| Allyl chloride | 8.85 | 0.50 | 10 | 0 | 88.5 | 65 | 135 | 8.9 | 0.563 | 22 | |
| Benzene | 9.12 | 0.50 | 10 | 0 | 91.2 | 65 | 135 | 9.03 | 0.992 | 22 | |
| Benzyl chloride | 8.29 | 2.0 | 10 | 0 | 82.9 | 65 | 135 | 8.38 | 1.08 | 22 | |
| Bromodichloromethane | 8.8 | 0.50 | 10 | 0 | 88 | 65 | 135 | 8.87 | 0.792 | 22 | |
| Bromoethene(Vinyl Bromide) | 8.51 | 0.50 | 10 | 0 | 85.1 | 65 | 135 | 8.26 | 2.98 | 22 | |
| Bromoform | 9.13 | 0.50 | 10 | 0 | 91.3 | 65 | 135 | 9.14 | 0.109 | 22 | |
| Bromomethane | 8.22 | 0.50 | 10 | 0 | 82.2 | 65 | 135 | 7.98 | 2.96 | 22 | |
| Carbon disulfide | 8.64 | 0.50 | 10 | 0 | 86.4 | 65 | 135 | 8.56 | 0.930 | 52 | |
| Carbon tetrachloride | 8.66 | 0.50 | 10 | 0 | 86.6 | 65 | 135 | 8.69 | 0.346 | 22 | |
| Chlorobenzene | 8.85 | 0.50 | 10 | 0 | 88.5 | 65 | 135 | 8.8 | 0.567 | 25 | |

Page 6 of 6

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

South Mesa WQARF/70211-2-0064

Law Engineering 02061078

Work Order: CLIENT:

Project:

| Run ID: MS0 | Coahle: 9670 |
|-----------------------|--------------|
| Prep Date: | |
| Units: ppbv | |
| TestCode: TO15 | |
| SampType: LCSD | |
| Sample ID LCSD-R24682 | |
| | |

| Sample ID 1 CSD-R24682 | SampType: LCSD | TestCoc | TestCode: TO15 | Units: ppbv | | Prep Date: | | | Run ID: MS | Run ID: MS04_020629A | |
|----------------------------------|------------------|---------|----------------|-------------|------|----------------|-----------|-------------|---------------|----------------------|------|
| Client ID: ZZZZZ | Batch ID: R24682 | TestN | TestNo: TO15 | | | Analysis Date: | 6/29/2002 | 02 | SeqNo: 267030 | 030 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| one afternoon of | 7 92 | 0.50 | 10 | 0 | 79.2 | 65 | 135 | 7.19 | 99.6 | 25 | |
| Chloroform | 8.74 | 0.50 | 10 | 0 | 87.4 | 65 | 135 | 8.68 | 0.689 | 25 | |
| Chloromethane | 8.67 | 0.50 | 10 | 0 | 86.7 | 65 | 135 | 8.21 | 5.45 | 22 | |
| circl Officerians | 8.66 | 0.50 | 10 | 0 | 86.6 | 65 | 135 | 8.69 | 0.346 | . 25 | |
| cis-1,2-Dichloropropene | 9.28 | 0.50 | 10 | 0 | 92.8 | 65 | 135 | 9.43 | 1.60 | 25 | |
| Cyclohexane | 9.12 | 0.50 | 10 | 0 | 91.2 | 65 | 135 | 90'6 | 0.660 | 25 | |
| Dibromochloromethane | 8.83 | 0.50 | 10 | 0 | 88.3 | 65 | 135 | 8.83 | 0 | 25 | |
| Dichlorodiffuoromethane(F-12) | 7.39 | 0.50 | 10 | 0 | 73.9 | 65 | 135 | 7.38 | 0.135 | 22 | |
| Dichlorotetrafluoroethane(F-114) | 8.6 | 0.50 | 10 | 0 | 86 | 65 | 135 | 8.06 | 6.48 | 22 | |
| Ethyl Acetate | 9.67 | 0.50 | 10 | 0 | 2.96 | 65 | 135 | 9.44 | 2.41 | 25 | |
| Ethylhenzene | 9.32 | 0.50 | 10 | 0 | 93.2 | 65 | 135 | 9.28 | 0.430 | 25 | |
| Hentane | တ | 0.50 | 10 | 0 | 06 | 65 | 135 | 8.89 | 1.23 | 22 | |
| Hevachlorobutadiene | 8.68 | 1.0 | 10 | 0 | 86.8 | 65 | 135 | 8.86 | 2.05 | 25 | |
| | 9.62 | 0.50 | 10 | 0 | 96.2 | 65 | 135 | 9.42 | 2.10 | 25 | |
| Hexalle Wood | 18.82 | 1.0 | 20 | 0 | 94.1 | 65 | 135 | 18.69 | 0.693 | 25 | |
| Methyl tert-butyl ether | 8.12 | 0.1 | 10 | 0 | 81.2 | 65 | 135 | 8.16 | 0.491 | 25 | |
| Methylene chloride | 8.57 | 0.50 | 10 | 0 | 85.7 | 65 | 135 | 8.53 | 0.468 | 25 | |
| Metriylerie cinoride | 9.31 | 0.50 | 10 | 0 | 93.1 | 65 | 135 | 9:36 | 0.536 | 25 | |
| O-Aylerie | 7 83 | 0.50 | 9 | 0 | 78.3 | 65 | 135 | 7.67 | 2.06 | 25 | |
| Properte (Propyrene) | 9.23 | 0.50 | 10 | 0 | 92.3 | 65 | 135 | 9.29 | 0.648 | 52 | |
| Totrocklonethene | 8.76 | 0.50 | 10 | 0 | 87.6 | 65 | 135 | 8.77 | 0.114 | 25 | |
| Tetrahydrofiran | 9.42 | 1.0 | 10 | 0 | 94.2 | 65 | 135 | 9.24 | 1.93 | 22 | |
| Holisas | 9.14 | 0.50 | 10 | 0 | 91.4 | 92 | 135 | 9.13 | 0.109 | 25 | |
| tolderie | 8 74 | 0.50 | 10 | 0 | 87.4 | 65 | 135 | 8.58 | 1.85 | 25 | |
| trans-1,2-Dichloropropose | . 6 | 0.50 | 19 | 0 | 91.8 | 65 | 135 | 9.28 | 1.08 | 25 | |
| Tans-1,3-Ucinolopiopene | 8.87 | 0.50 | 10 | 0 | 88.7 | 65 | 135 | 8.76 | 1.25 | 22 | |
| Trickloroff ioromethane(F-11) | 62.6 | 0.50 | 10 | 0 | 97.9 | 65 | 135 | 9.63 | 1.65 | 25 | |
| Tricklorofrigues of F113 | 8.63 | 0.50 | 10 | 0 | 86.3 | 65 | 135 | 8.59 | 0.465 | 25 | |
| Visit analate | 9.85 | 0.50 | 10 | 0 | 98.5 | 65 | 135 | 9.54 | 3.20 | 25 | |
| Viryl chloride | 8.29 | 0.50 | 10 | 0 | 82.9 | 65 | 135 | 7.45 | 10.7 | 52 | |
| Surr: 4-Bromofluorobenzene | 6.97 | 0.50 | 10 | 0 | 99.7 | 70 | 130 | 0 | 0 | | |



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8+01-908-0

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[] North Phoenix - 1501 W. Knudsen, Phoenix, AZ 85027 (623) 780-4700 FAX (623) 780-2934

[] Tucson - 4455 S. Park Ave, Suite 110, Tucson, AZ 85714 (520) 807-3801 FAX (520) 807-3803

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All services are performed subject to the Terms & Conditions on the reverse side.



a division of Aerotech Laboratories, Inc.

December 27, 2002

Jim Clarke Mactec 4634 South 36th Place Phoenix, AZ 85040

RE: South Mesa WQARF/70211-2-0064-2.55

Dear Jim Clarke:

Order No.: 02120918

Precision Analytical Laboratories received 5 samples on 12/18/2002 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Lucas Menendez

Project Manager



a division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories

Date: 27-Dec-02

CLIENT:

Mactec

Project:

South Mesa WOARF/70211-2-0064-2.55

Lab Order:

02120918

CASE NARRATIVE

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992, and 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136 - Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Precision Analytical Laboratories, Inc. (PAL) holds Arizona certification no. AZ0610 and PAL-Tucson holds Arizona certification no. AZ0609.

PAL participates in the AIHA Proficiency Analytical Testing (PAT) program for metals, solvents and formaldehyde.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control objectives for the analyses included in this report.

Data Qualifiers:

Listed below are the data qualifiers used in your analytical report to explain any analytical or quality control issues. You will find them noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

D2 Sample required dilution due to high concentration of target analyte.

Page 1 of 1

Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com Main Laboratory 1725 W. 17th Street Tempe, AZ 85281 Phone: 480-967-1310 Toll Free: 866-772-5227 Fax: 480-967-1019 www.palabs.com



Precision Analytical Laboratories

Date: 27-Dec-02

CLIENT:

Mactec

Client Sample ID: 1

Lab Order:

02120918

Tag Number:

Project:

South Mesa WQARF/70211-2-0064-2.55

Collection Date: 12/17/2002 9:11:00 AM

Lab ID:

02120918-01A

Matrix: AIR

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|-------------------------------|--------|-------|------|-------|-----|--------------------|
| VOLATILE ORGANICS IN AIR | т. | O15 | | | | Analyst: JG |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,1-Dichloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,1-Dichloroethene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| 1,2,4-Trimethylbenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | | ppbv | 1 1 | 12/19/2002 |
| 1,2-Dichloropropane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,3-Butadiene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 2-Butanone (MEK) | 1.3 | 1.0 | | ppbv | 1 | 12/19/2002 |
| 2-Hexanone | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| 2-Propanol | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| 4-Ethyltoluene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| Acetone | 18 | 5.0 | | ppbv | 1 | 12/19/2002 |
| Allyl chloride | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Benzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Benzyl chloride | < 2.0 | 2.0 | | ppbv | . 1 | 12/19/2002 |
| Bromodichloromethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Bromoform | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Bromomethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Carbon disulfide | < 0.50 | 0.50 | | ppbv | 1 , | 12/19/2002 |
| Carbon tetrachloride | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Chlorobenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Chloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Chloroform | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Chloromethane | 0.52 | 0.50 | | ppbv | 1 | 12/19/2002 |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | | ppbv | 1 1 | 12/19/2002 |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Cyclohexane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Dibromochloromethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Dichlorodifluoromethane(F-12) | 0.62 | 0.50 | | ppbv | 1 | 12/19/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Page 1 of 10

^{* -} Value exceeds Maximum Contaminant Level

Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com Main Laboratory 1725 W. 17th Street Tempe, AZ 85281 Phone: 480-967-1310 Toll Free: 866-772-5227 Fax: 480-967-1019 www.palabs.com Tucson Facility 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520-807-3801 Fax: 520-807-3803



Precision Analytical Laboratories

CLIENT:

Mactec

Lab Order:

02120918

Project:

South Mesa WQARF/70211-2-0064-2.55

Lab ID:

02120918-01A

Date: 27-Dec-02

Client Sample ID: 1

Tag Number:

Collection Date: 12/17/2002 9:11:00 AM

Matrix: AIR

| Analyses | Result | Limit | Qual Units | DF | Date Analyzed |
|----------------------------------|--------|--------|------------|----|--------------------|
| OLATILE ORGANICS IN AIR | | TO15 | | | Analyst: JG |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Heptane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Hexane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| m&p-Xylene | < 1.0 | 1.0 | ppbv | 1. | 12/19/2002 |
| Methyl tert-butyl ether | < 1.0 | 1.0 | ppbv | .1 | 12/19/2002 |
| Methylene chloride | 0.58 | 0.50 | ppbv | 1 | 12/19/2002 |
| o-Xylene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Styrene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Tetrachloroethene | 13 | 0.50 | ppbv | 1 | 12/19/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Toluene | 1.1 | 0.50 | ppbv | 1 | 12/19/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Trichloroethene | 1.2 | 0.50 | ppbv | 1 | 12/19/2002 |
| Trichlorofluoromethane(F-11) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Vinyl acetate | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Vinyl chloride | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Surr: 4-Bromofluorobenzene | 97.4 | 70-130 | %REC | 1 | 12/19/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 2 of 10

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Precision Analytical Laboratories

Mactec

02120918

Client Sample ID: 2

Tag Number:

Project:

CLIENT:

Lab Order:

South Mesa WQARF/70211-2-0064-2.55

Collection Date: 12/17/2002 9:17:00 AM

Date: 27-Dec-02

Lab ID:

02120918-02A

Matrix: AIR

| Analyses | Result | Limit Qu | ual Units | DF | Date Analyzed |
|-------------------------------|--------|----------|-----------|-----|--------------------|
| VOLATILE ORGANICS IN AIR | T | O15 | erika | | Analyst: JG |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,1-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,1-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | ppbv | . 1 | 12/19/2002 |
| 1,2,4-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,2-Dichloropropane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,3-Butadiene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 2-Butanone (MEK) | 1.5 | 1.0 | ppbv | 1 | 12/19/2002 |
| 2-Hexanone | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| 2-Propanol | 2.4 | 1.0 | ppbv | 1 | 12/19/2002 |
| 4-Ethyltoluene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Acetone | 19 | 5.0 | ppbv | 1 | 12/19/2002 |
| Allyl chloride | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Benzene | 0.57 | 0.50 | ppbv | 1 | 12/19/2002 |
| Benzyl chloride | < 2.0 | 2.0 | ppbv | 1 | 12/19/2002 |
| Bromodichloromethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Bromoform | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Bromomethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Carbon disulfide | 0.51 | 0.50 | ppbv | 1 | 12/19/2002 |
| Carbon tetrachloride | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Chlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Chloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Chloroform | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Chloromethane | 0.60 | 0.50 | ppbv | 1 | 12/19/2002 |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Cyclohexane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Dibromochloromethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Dichlorodifluoromethane(F-12) | 0.64 | 0.50 | ppbv | 1 | 12/19/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

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^{* -} Value exceeds Maximum Contaminant Level

[■] Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com ■ Main Laboratory 1725 W. 17th Street Tempe, AZ 85281 Phone: 480-967-1310 Toll Free: 866-772-5227 Fax: 480-967-1019 www.palabs.com

[■] Tucson Facility 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520-807-3801 Fax: 520-807-3803



Precision Analytical Laboratories

CLIENT:

Mactec

Lab Order:

02120918

Project:

South Mesa WQARF/70211-2-0064-2.55

Lab ID:

02120918-02A

Date: 27-Dec-02

Client Sample ID: 2

Tag Number:

Collection Date: 12/17/2002 9:17:00 AM

Matrix: AIR

| Analyses | Result | Limit | Qual U | nits | DF | Date Analyzed |
|----------------------------------|--------|--------|----------------|------|----|--------------------|
| VOLATILE ORGANICS IN AIR | Т | O15 | de. | | | Analyst: JG |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | pį | pbv | 1 | 12/19/2002 |
| Ethyl Acetate | 0.57 | 0.50 | pj | pbv | 1 | 12/19/2002 |
| Ethylbenzene | 1.4 | 0.50 | PI | pbv | 1 | 12/19/2002 |
| Heptane | < 0.50 | 0.50 | pı | pbv | 1 | 12/19/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | p _l | pbv | 1 | 12/19/2002 |
| Hexane | 0.65 | 0.50 | p _l | pbv | 1 | 12/19/2002 |
| m&p-Xylene | 5.6 | 1.0 | p | obv | 1 | 12/19/2002 |
| Methyl tert-butyl ether | < 1.0 | 1.0 | p | obv | 1 | 12/19/2002 |
| Methylene chloride | < 0.50 | 0.50 | p | obv | 1 | 12/19/2002 |
| o-Xylene | 2.0 | 0.50 | | obv | 1 | 12/19/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | | obv | 1 | 12/19/2002 |
| Styrene | < 0.50 | 0.50 | | obv | 1 | 12/19/2002 |
| Tetrachloroethene | 180 | 5.0 | • • • | obv | 10 | 12/19/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | p | obv | 1 | 12/19/2002 |
| Toluene | 2.3 | 0.50 | p | obv | 1 | 12/19/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | pr | obv | 1 | 12/19/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | | obv | 1 | 12/19/2002 |
| Trichloroethene | 4.0 | 0.50 | | obv | 1 | 12/19/2002 |
| Trichlorofluoromethane(F-11) | < 0.50 | 0.50 | pr | obv | 1 | 12/19/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | | obv | 1 | 12/19/2002 |
| Vinyl acetate | < 0.50 | 0.50 | | obv | 1 | 12/19/2002 |
| Vinyl chloride | < 0.50 | 0.50 | • • | obv | 1 | 12/19/2002 |
| Surr: 4-Bromofluorobenzene | 99.1 | 70-130 | | REC | 1 | 12/19/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

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Precision Analytical Laboratories

CLIENT: Lab Order: Mactec

02120918

Client Sample ID: 3

Tag Number:

Project:

South Mesa WQARF/70211-2-0064-2.55

Collection Date: 12/17/2002 9:19:00 AM

Date: 27-Dec-02

Lab ID:

02120918-03A

Matrix: AIR

| Analyses | Result | Limit Qu | ial Units | DF | Date Analyzed | |
|-------------------------------|--------|----------|-----------|----|---------------------|-------------|
| VOLATILE ORGANICS IN AIR | Т | O15 | | | Analyst: J (| |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,1-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,1-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 | |
| 1,2,4-Trimethylbenzene | 0.64 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,2-Dichloropropane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,3-Butadiene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 2,2,4-Trimethylpentane | 1.0 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 2-Butanone (MEK) | 1.0 | 1.0 | ppbv | 1 | 12/19/2002 | |
| 2-Hexanone | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 | |
| 2-Propanol | 3.1 | 1.0 | ppbv | 1 | 12/19/2002 | |
| 4-Ethyltoluene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 | |
| Acetone | 13 | 5.0 | ppbv | 1 | 12/19/2002 | |
| Allyl chloride | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Benzene | 1.1 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Benzyl chloride | < 2.0 | 2.0 | ppbv | 1 | 12/19/2002 | |
| Bromodichloromethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Bromoform | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Bromomethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Carbon disulfide | 1.5 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Carbon tetrachloride | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Chlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Chloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Chloroform | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Chloromethane | 0.54 | 0.50 | ppbv | 1 | 12/19/2002 | |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Cyclohexane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Dibromochloromethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 | |
| Dichlorodifluoromethane(F-12) | 0.62 | 0.50 | ppbv | 1 | 12/19/2002 | |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

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Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com Main Laboratory 1725 W. 17th Street Tempe, AZ 85281 Phone: 480-967-1310 Toll Free: 866-772-5227 Fax: 480-967-1019 www.palabs.com Tucson Facility 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520-807-3801 Fax: 520-807-3803



Precision Analytical Laboratories

CLIENT: Lab Order: Mactec

02120918

Project:

South Mesa WQARF/70211-2-0064-2.55

Lab ID:

02120918-03A

Date: 27-Dec-02

Client Sample ID: 3

Tag Number:

Collection Date: 12/17/2002 9:19:00 AM

Matrix: AIR

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|----------------------------------|--------|--------|-------|-------|-----|--------------------|
| VOLATILE ORGANICS IN AIR | T | O15 | 7.5.1 | | | Analyst: JG |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Ethylbenzene | 0.65 | 0.50 | | ppbv | 1 - | 12/19/2002 |
| Heptane | 1.2 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| Hexane | 0.82 | 0.50 | | ppbv | 1 | 12/19/2002 |
| m&p-Xylene | 2.4 | 1.0 | | ppbv | 1_ | 12/19/2002 |
| Methyl tert-butyl ether | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| Methylene chloride | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| o-Xylene | 0.87 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Styrene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Tetrachloroethene | 17 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| Toluene | 3.2 | 0.50 | | ppbv | 1 | 12/19/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Trichloroethene | 0.78 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Trichlorofluoromethane(F-11) | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Vinyl acetate | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Vinyl chloride | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Surr: 4-Bromofluorobenzene | 98.0 | 70-130 | | %REC | 1 | 12/19/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

* - Value exceeds Maximum Contaminant Level

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com ■ Main Laboratory 1725 W. 17th Street Tempe, AZ 85281 Phone: 480-967-1310 Toll Free: 866-772-5227 Fax: 480-967-1019 www.palabs.com



Date: 27-Dec-02

Precision Analytical Laboratories

Mactec

Client Sample ID: 6

Lab Order:

CLIENT:

02120918

Tag Number:

Project:

South Mesa WQARF/70211-2-0064-2.55

Collection Date: 12/17/2002 9:05:00 AM

Lab ID:

02120918-04A

Matrix: AIR

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|-------------------------------|--------|-------|------|-------|----|--------------------|
| VOLATILE ORGANICS IN AIR | Т | O15 | | | | Analyst: JG |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,1-Dichloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,1-Dichloroethene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| 1,2,4-Trimethylbenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,2-Dichloropropane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,3-Butadiene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 2-Butanone (MEK) | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| 2-Hexanone | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| 2-Propanol | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| 4-Ethyltoluene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | | ppbv | 1 | 12/19/2002 |
| Acetone | 26 | 5.0 | | ppbv | 1 | 12/19/2002 |
| Allyl chloride | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Benzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Benzyl chloride | < 2.0 | 2.0 | | ppbv | 1 | 12/19/2002 |
| Bromodichloromethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Bromoform | 2.4 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Bromomethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Carbon disulfide | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Carbon tetrachloride | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Chlorobenzene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Chloroethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Chloroform | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Chloromethane | 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Cyclohexane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Dibromochloromethane | < 0.50 | 0.50 | | ppbv | 1 | 12/19/2002 |
| Dichlorodifluoromethane(F-12) | 0.62 | 0.50 | | ppbv | 1 | 12/19/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Page 7 of 10

^{* -} Value exceeds Maximum Contaminant Level

Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com ■ Main Laboratory 1725 W. 17th Street Tempe, AZ 85281 Phone: 480-967-1310 Toll Free: 866-772-5227 Fax: 480-967-1019 www.palabs.com

[■] Tucson Facility 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520-807-3801 Fax: 520-807-3803



Precision Analytical Laboratories

Mactec

Lab Order: 02120918

Project: South Mesa WQARF/70211-2-0064-2.55

Lab ID:

CLIENT:

02120918-04A

Date: 27-Dec-02

Client Sample ID: 6

Tag Number:

Collection Date: 12/17/2002 9:05:00 AM

Matrix: AIR

| Analyses | Result | Limit | Qual Units | DF | Date Analyzed |
|----------------------------------|--------|--------|------------|-----|--------------------|
| VOLATILE ORGANICS IN AIR | | TO15 | e projekt | 7 : | Analyst: JG |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Heptane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Hexane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| m&p-Xylene | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Methyl tert-butyl ether | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Methylene chloride | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| o-Xylene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Styrene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Tetrachloroethene | 7.0 | 0.50 | ppbv | 1 | 12/19/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Toluene | 1.3 | 0.50 | ppbv | 1 | 12/19/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Trichloroethene | 0.61 | 0.50 | ppbv | 1 | 12/19/2002 |
| Trichlorofluoromethane(F-11) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Vinyl acetate | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Vinyl chloride | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Surr: 4-Bromofluorobenzene | 97.2 | 70-130 | %REC | 1 | 12/19/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 8 of 10

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Date: 27-Dec-02

Precision Analytical Laboratories

Mactec

Client Sample ID: 7

CLIENT: Lab Order:

02120918

Tag Number:

Project:

South Mesa WQARF/70211-2-0064-2.55

Collection Date: 12/17/2002 8:59:00 AM

Lab ID:

02120918-05A

Matrix: AIR

| Analyses | Result | Limit Q | ual Units | DF | Date Analyzed |
|-------------------------------|--------|---------|-----------|-----|--------------------|
| OLATILE ORGANICS IN AIR | Т | O15 | | * | Analyst: JG |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,1-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,1-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| 1,2,4-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,2-Dichloropropane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,3-Butadiene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 2-Butanone (MEK) | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| 2-Hexanone | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| 2-Propanol | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| 4-Ethyltoluene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Acetone | < 5.0 | 5.0 | ppbv | 1 | 12/19/2002 |
| Allyl chloride | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Benzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Benzyl chloride | < 2.0 | 2.0 | ppbv | 1 | 12/19/2002 |
| Bromodichloromethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Bromoform | 2.6 | 0.50 | ppbv | 1 | 12/19/2002 |
| Bromomethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Carbon disulfide | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Carbon tetrachloride | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Chlorobenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Chloroethane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Chloroform | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Chloromethane | 0.52 | 0.50 | ppbv | 1 | 12/19/2002 |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Cyclohexane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Dibromochloromethane | < 0.50 | 0.50 | ppbv | - 1 | 12/19/2002 |
| Dichlorodifluoromethane(F-12) | 0.65 | 0.50 | ppbv | 1 | 12/19/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

^{* -} Value exceeds Maximum Contaminant Level

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[■] Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com ■ Main Laboratory 1725 W. 17th Street Tempe, AZ 85281 Phone: 480-967-1310 Toll Free: 866-772-5227 Fax: 480-967-1019 www.palabs.com

[■] Tucson Facility 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520-807-3801 Fax: 520-807-3803



Precision Analytical Laboratories

CLIENT:

Mactec

Lab Order:

02120918

Project:

South Mesa WQARF/70211-2-0064-2.55

Lab ID:

02120918-05A

Date: 27-Dec-02

Client Sample ID: 7

Tag Number:

Collection Date: 12/17/2002 8:59:00 AM

Matrix: AIR

| Analyses | Result | Limit Q | ual Units | DF | Date Analyzed |
|----------------------------------|--------|---------|-----------|-----|--------------------|
| VOLATILE ORGANICS IN AIR | T | O15 | | | Analyst: JG |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Ethyl Acetate | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Ethylbenzene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Heptane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Hexachlorobutadiene | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Hexane | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| m&p-Xylene | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Methyl tert-butyl ether | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Methylene chloride | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| o-Xylene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Propene (Propylene) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Styrene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Tetrachloroethene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Tetrahydrofuran | < 1.0 | 1.0 | ppbv | 1 | 12/19/2002 |
| Toluene | 0.86 | 0.50 | ppbv | 1 | 12/19/2002 |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Trichloroethene | 0.67 | 0.50 | ppbv | 1 | 12/19/2002 |
| Trichlorofluoromethane(F-11) | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Trichlorotrifluoroethane(F-113) | < 0.50 | 0.50 | ppbv | : 1 | 12/19/2002 |
| Vinyl acetate | < 0.50 | 0.50 | ppbv | 1 | 12/19/2002 |
| Vinyl chloride | < 0.50 | 0.50 | ppbv | . 1 | 12/19/2002 |
| Surr: 4-Bromofluorobenzene | 97.6 | 70-130 | %REC | 1 | 12/19/2002 |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 10 of 10

■ Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com Main Laboratory 1725 W. 17th Street Tempe, AZ 85281 Phone: 480-967-1310 Toll Free: 866-772-5227 Fax: 480-967-1019 www.palabs.com



Date: 27-Dec-02

CLIENT:

02120918 Work Order: South Mesa WQARF/70211-2-0064-2.55 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

| Sample ID MB-R30598 | SampType: MBLK | TestCod | TestCode: TO15 | Units: ppbv | Prep Date: | Run ID: MS05_021218A |
|--|------------------|---------|----------------|--|--|--|
| Client ID: ZZZZZ | Batch ID: R30598 | TestN | TestNo: TO15 | | Analysis Date: 12/18/2002 | SeqNo: 341812 |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC LowLimit HighLimit RPD Ref Val | %RPD RPDLimit Qual |
| 1,1,1-Trichloroethane | < 0.50 | 0.50 | | | | |
| 1,1,2,2-Tetrachloroethane | < 0.50 | 0.50 | | | | |
| 1,1,2-Trichloroethane | < 0.50 | 0.50 | | | | |
| 1,1-Dichloroethane | < 0.50 | 0.50 | | | | |
| 1,1-Dichloroethene | < 0.50 | 0.50 | | | | |
| 1,2,4-Trichlorobenzene | < 1.0 | 1.0 | | | | |
| 1,2,4-Trimethylbenzene | < 0.50 | 0.50 | | | | |
| 1,2-Dibromoethane | < 0.50 | 0.50 | | | | |
| 1,2-Dichlorobenzene | < 0.50 | 0.50 | | | | |
| 1,2-Dichloroethane | < 0.50 | 0.50 | | | | |
| 1,2-Dichloropropane | < 0.50 | 0.50 | | | | |
| 1,3,5-Trimethylbenzene | < 0.50 | 0.50 | | | | |
| 1,3-Butadiene | < 0.50 | 0.50 | | | | |
| 1,3-Dichlorobenzene | < 0.50 | 0.50 | | | | |
| 1,4-Dichlorobenzene | < 0.50 | 0.50 | | | | |
| 2,2,4-Trimethylpentane | < 0.50 | 0.50 | | | | |
| 2-Butanone (MEK) | < 1.0 | 1.0 | | | | |
| 2-Hexanone | < 1.0 | 1.0 | | | | |
| 2-Propanol | < 1.0 | 1.0 | | | | |
| 4-Ethyltoluene | < 0.50 | 0.50 | | | | |
| 4-Methyl-2-pentanone | < 1.0 | 1.0 | | | | |
| Acetone | < 5.0 | 2.0 | | | | |
| Allyl chloride | < 0.50 | 0.50 | | | | |
| Benzene | < 0.50 | 0.50 | | | | |
| Benzyl chloride | < 2.0 | 2.0 | | | | |
| Bromodichloromethane | < 0.50 | 0.50 | | | | |
| Bromoethene(Vinyl Bromide) | < 0.50 | 0.50 | | | | |
| and the second s | | | | The second secon | Companies and comment on coloring to the description of the second comments of the second coloring to the second c | A CAMPAGE OF THE PROPERTY OF T |

Page I of 8 Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com
 Main Laboratory 1725 W. 17th Street Tempe, AZ 85281 Phone: 480-967-1310 Toll Free: 866-772-5227 Fax: 480-967-1019 www.palabs.com
 Tucson Facility 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520-807-3801 Fax: 520-807-3803 R - RPD outside accepted recovery limits J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at the Reporting Limit

Qualifiers:

B - Analyte detected in the associated Method Blank



Mactec CLIENT:

02120918 Work Order: South Mesa WQARF/70211-2-0064-2.55 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

| Sample ID MB-R30598 | SampType: MBLK | TestCo | TestCode: TO15 | Units: ppbv | | Prep Date: | | | Run ID: MS | Run ID: MS05 021218A | |
|----------------------------------|------------------|--------|----------------|-------------|------|---------------|---------------------------|-------------|---------------|----------------------|------|
| Client ID: ZZZZZ | Batch ID: R30598 | Test | TestNo: TO15 | | ∢ | nalysis Date: | Analysis Date: 12/18/2002 | | SeqNo: 341812 | 1812 | |
| Analyte | Result | POL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit RP | RPD Ref Val | %RPD | RPDLimit | Qual |
| Bromoform | < 0.50 | 0.50 | | | | | | | | | |
| Bromomethane | < 0.50 | 0.50 | | | | | | | | | |
| Carbon disulfide | < 0.50 | 0.50 | | | | | | | | | |
| Carbon tetrachloride | < 0.50 | 0.50 | | | | | | | | | |
| Chlorobenzene | < 0.50 | 0.50 | | | | | | | | | |
| Chloroethane | < 0.50 | 0.50 | | | | | | | | | |
| Chloroform | < 0.50 | 0.50 | | | | | | | | | |
| Chloromethane | < 0.50 | 0.50 | | | | | | | | | |
| cis-1,2-Dichloroethene | < 0.50 | 0.50 | | | | | | | | | |
| cis-1,3-Dichloropropene | < 0.50 | 0.50 | | | | | | | | | |
| Cyclohexane | < 0.50 | 0.50 | | | | | | | | | |
| Dibromochloromethane | < 0.50 | 0.50 | | | | | | | | | |
| Dichlorodifluoromethane(F-12) | < 0.50 | 0.50 | | | | | | | | | |
| Dichlorotetrafluoroethane(F-114) | < 0.50 | 0.50 | | | | | | | | | |
| Ethyl Acetate | < 0.50 | 0.50 | | | | | | | | | |
| Ethylbenzene | < 0.50 | 0.50 | | | | | | | | | |
| Heptane | < 0.50 | 0.50 | | | | | | | | | |
| Hexachlorobutadiene | < 1.0 | 1.0 | | | | | | | | | |
| Hexane | < 0.50 | 0.50 | | | | | | | | | |
| m&p-Xylene | 0.1 > < 1.0 | 1.0 | | | | | | | | | |
| Methyl tert-butyl ether | < 1.0 | 1.0 | | | | | | | | | |
| Methylene chloride | < 0.50 | 0.50 | | | | | | | | | |
| o-Xylene | < 0.50 | 0.50 | | | | | | | | | |
| Propene (Propylene) | < 0.50 | 0.50 | | | | | | | | | |
| Styrene | < 0.50 | 0.50 | | | | | | | | | |
| Tetrachloroethene | < 0.50 | 0.50 | | | | | | | | | |
| Tetrahydrofuran | < 1.0 | 1.0 | | | | | | | | | |
| Toluene | < 0.50 | 0.50 | | | | | | | | | |
| | | | | | | | | | | | |

S - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 2 of 8

Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com
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Mactec CLIENT: 02120918 Work Order: South Mesa WQARF/70211-2-0064-2.55

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

| Sample ID MB-R30598 | SampType: MBLK | TestCod | TestCode: T015 | Units: ppbv | | Prep Date: | | | Run ID: MS | Run ID: MS05_021218A | |
|---------------------------------|--|---------|----------------|--|--------------|----------------|------------|---|-------------------|----------------------|------|
| Client ID: ZZZZZ | Batch ID: R30598 | TestN | TestNo: TO15 | | • | Analysis Date: | 12/18/2002 | 002 | SeqNo: 341812 | 812 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit Hi | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| trans-1,2-Dichloroethene | < 0.50 | 0.50 | | | | | | | | | |
| trans-1,3-Dichloropropene | < 0.50 | 0.50 | | | | | | | | | |
| Trichloroethene | < 0.50 | 0.50 | | | | | | | | | |
| Trichlorofluoromethane(F-11) | < 0.50 | 0.50 | | | | | | | | | |
| Trichlorotrifluoroethane(F-113) | 3) < 0.50 | 0.50 | | | | | | | | | |
| Vinyl acetate | < 0.50 | 0.50 | | | | | | | | | |
| Vinyl chloride | < 0.50 | 0.50 | | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 9.6 | 0.50 | 10 | 0 | 96 | 70 | 130 | 0 | 0 | | |
| Sample ID LCS-R30598 | SampType: LCS | TestCod | TestCode: T015 | Units: ppbv | | Prep Date: | | | Run ID: MS | Run ID: MS05_021218A | |
| Client ID: ZZZZZ | Batch ID: R30598 | TestN | TestNo: T015 | | • | Analysis Date: | 12/18/2002 | 202 | SeqNo: 341817 | 817 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit Hi | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1.1.1-Trichloroethane | 10.67 | 0.50 | 10 | 0 | 107 | 65 | 135 | 0 | 0 | | |
| 1.1.2.2-Tetrachloroethane | 10.58 | 0.50 | 10 | 0 | 106 | 65 | 135 | 0 | 0 | | |
| 1,1,2-Trichloroethane | 10.81 | 0.50 | 10 | 0 | 108 | 65 | 135 | 0 | 0 | | |
| 1,1-Dichloroethane | 10.74 | 0.50 | 10 | 0 | 107 | 65 | 135 | 0 | 0 | | |
| 1,1-Dichloroethene | 10.25 | 0.50 | 10 | 0 | 103 | 65 | 135 | 0 | 0 | | |
| 1,2,4-Trichlorobenzene | 10.05 | 1.0 | 10 | 0 | 100 | 65 | 135 | 0 | 0 | | |
| 1,2,4-Trimethylbenzene | 12.16 | 0.50 | 10 | 0 | 122 | 65 | 135 | 0 | 0 | | |
| 1,2-Dibromoethane | 11.17 | 0.50 | 10 | 0 | 112 | 65 | 135 | 0 | 0 | | |
| 1,2-Dichlorobenzene | 10.94 | 0.50 | 10 | 0 | 109 | 65 | 135 | 0 | 0 | | |
| 1,2-Dichloroethane | 10.84 | 0.50 | 10 | 0 | 108 | 65 | 135 | 0 | 0 | | |
| 1,2-Dichloropropane | 11.01 | 0.50 | 10 | 0 | 110 | 65 | 135 | 0 | 0 | | |
| 1,3,5-Trimethylbenzene | 12.58 | 0.50 | 10 | 0 | 126 | 65 | 135 | 0 | 0 | | |
| 1,3-Butadiene | 10.01 | 0.50 | 10 | 0 | 100 | 65 | 135 | 0 | 0 | | |
| 1,3-Dichlorobenzene | 11.1 | 0.50 | 10 | 0 | 111 | 65 | 135 | 0 | 0 | | |
| 1,4-Dichlorobenzene | 11.33 | 0.50 | 10 | 0 | 113 | 65 | 135 | 0 | 0 | | |
| | | | Jino o | C. Caibe Denovery outside accented recovery limits | oppted reco | very limits | | B - Analyte detected in the associated Method Blank | ed in the associa | ted Method BI | ank |
| Qualifiers: ND - Not I | ND - Not Detected at the Reporting Limit | | nde - e | ke necovery oursine at | nadica ica | very minus | 3 | - / many to decree | | | |
| 1 A A 1 | detected below amountated | | Idd d | PPD outside accented recovery limits | overy limits | | | | | Dage 2 of 8 | 8,00 |

Page 3 of 8 Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com
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 Tucson Facility 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520-807-3801 Fax: 520-807-3803 R - RPD outside accepted recovery limits J - Analyte detected below quantitation limits



Mactec CLIENT:

02120918 Work Order: South Mesa WQARF/70211-2-0064-2.55

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

| Sample ID LCS-R30598 | SampType: LCS | TestCo | TestCode: TO15 | Units: ppbv | | Prep Date: | | | Run ID: MS | Run ID: MS05_021218A | |
|----------------------------------|------------------|--------|----------------|-------------|------|----------------|------------|-------------|---------------|----------------------|------|
| Client ID: ZZZZZ | Batch ID: R30598 | Test | TestNo: TO15 | | | Analysis Date: | 12/18/2002 | 002 | SeqNo: 341817 | 1817 | - |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit H | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 2,2,4-Trimethylpentane | 11.47 | 0:20 | 10 | 0 | 115 | 65 | 135 | 0 | 0 | | |
| 2-Butanone (MEK) | 10.63 | 1.0 | 10 | 0 | 106 | 65 | 135 | 0 | 0 | | |
| 2-Hexanone | 12.21 | 1.0 | 10 | 0 | 122 | 65 | 135 | 0 | 0 | | |
| 2-Propanol | 9.04 | 1.0 | 10 | 0 | 90.4 | 65 | 135 | 0 | 0 | | |
| 4-Ethyltoluene | 12.54 | 0.50 | 10 | 0 | 125 | 65 | 135 | 0 | 0 | | |
| 4-Methyl-2-pentanone | 11.98 | 1.0 | 10 | 0 | 120 | 65 | 135 | 0 | 0 | | |
| Acetone | 10.17 | 5.0 | 10 | 0 | 102 | 65 | 135 | 0 | 0 | | |
| Allyl chloride | 11.36 | 0.50 | 10 | 0 | 114 | 65 | 135 | 0 | 0 | | |
| Benzene | 11.54 | 0.50 | 10 | 0 | 115 | 65 | 135 | 0 | 0 | | |
| Benzyl chloride | 11.52 | 2.0 | 10 | 0 | 115 | 65 | 135 | 0 | 0 | | |
| Bromodichloromethane | 10.69 | 0.50 | 10 | 0 | 107 | 65 | 135 | 0 | 0 | | |
| Bromoethene(Vinyl Bromide) | 10.05 | 0.50 | 10 | 0 | 100 | 65 | 135 | 0 | 0 | | |
| Bromoform | 10.65 | 0.50 | 10 | 0 | 106 | 65 | 135 | 0 | 0 | | |
| Bromomethane | 10.21 | 0.50 | 10 | 0 | 102 | 65 | 135 | 0 | 0 | | |
| Carbon disulfide | 6.77 | 0.50 | 10 | 0 | 7.76 | 65 | 135 | 0 | 0 | | |
| Carbon tetrachloride | 10.82 | 0.50 | 10 | 0 | 108 | 65 | 135 | 0 | 0 | | |
| Chlorobenzene | 10.69 | 0.50 | 10 | 0 | 107 | 65 | 135 | 0 | 0 | | |
| Chloroethane | 10.01 | 0.50 | 10 | 0 | 101 | 65 | 135 | 0 | 0 | | |
| Chloroform | 10.66 | 0.50 | 10 | 0 | 107 | 65 | 135 | 0 | 0 | | |
| Chloromethane | 88.6 | 0.50 | 10 | 0 | 98.8 | 92 | 135 | 0 | 0 | | |
| cis-1,2-Dichloroethene | 11.41 | 0.50 | 10 | 0 | 114 | 99 | 135 | | 0 | | |
| cis-1,3-Dichloropropene | 12.15 | 0.50 | 10 | 0 | 122 | 65 | 135 | 0 | 0 | | |
| Cyclohexane | 12.53 | 0.50 | 10 | 0 | 125 | 92 | 135 | 0 | 0 | | |
| Dibromochloromethane | 10.66 | 0.50 | 10 | 0 | 107 | 92 | 135 | 0 | 0 | | |
| Dichlorodifluoromethane(F-12) | 10.14 | 0.50 | 10 | 0 | 101 | 65 | 135 | 0 | 0 | | |
| Dichlorotetrafluoroethane(F-114) | 10.1 | 0.50 | 10 | 0 | 101 | 65 | 135 | 0 | 0 | | |
| Ethyl Acetate | 11.49 | 0.50 | 10 | 0 | 115 | 65 | 135 | 0 | 0 | | |
| Ethylbenzene | 12.43 | 0.50 | 10 | 0 | 124 | 65 | 135 | 0 | 0 | | |
| | | | | | | | | | | | |

Page 4 of 8 B - Analyte detected in the associated Method Blank Corporate Address 1501 W. Knudsen Phoenix, AZ 85027 Phone: 623-780-4800 Toll Free: 800-651-4802 Fax: 623-780-7695 www.aerotechlabs.com
 Main Laboratory 1725 W. 17th Street Tempe, AZ 85281 Phone: 480-967-1310 Toll Free: 866-772-5227 Fax: 480-967-1019 www.palabs.com
 Tucson Facility 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520-807-3801 Fax: 520-807-3803 S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:



Mactec CLIENT: 02120918 Work Order: South Mesa WQARF/70211-2-0064-2.55

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

| Sample ID LCS-R30598 | SampType: LCS | TestCod | TestCode: T015 | Units: ppbv | | Prep Date: | | | Run ID: MS | Run ID: MS05_021218A | |
|---------------------------------|------------------|---------|----------------|---|--|----------------|--------------|-------------|----------------------|----------------------|-----------|
| Client ID: ZZZZZ | Batch ID: R30598 | TestN | TestNo: T015 | | | Analysis Date: | 12/18/2002 | 002 | SeqNo: 341817 | 817 | 500420St. |
| Analyte | Result | Pal | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Heptane | 11.34 | 0.50 | 10 | 0 | 113 | 65 | 135 | 0 | 0 | | |
| Hexachlorobutadiene | 9.44 | 1.0 | 10 | 0 | 94.4 | 92 | 135 | 0 | 0 | | |
| Hexane | 12.29 | 0.50 | 10 | 0 | 123 | 92 | 135 | 0 | 0 | | |
| m&p-Xylene | 24.55 | 1.0 | 20 | 0 | 123 | 92 | 135 | 0 | 0 | | |
| Methyl tert-butyl ether | 11.25 | 1.0 | 10 | 0 | 112 | 65 | 135 | 0 | 0 | | |
| Methylene chloride | 9.19 | 0.50 | 10 | 0 | 91.9 | 65 | 135 | 0 | 0 | | |
| o-Xylene | 12.35 | 0.50 | 10 | 0 | 124 | 92 | 135 | 0 | 0 | | |
| Propene (Propylene) | 10.29 | 0.50 | 10 | 0 | 103 | 65 | 135 | 0 | 0 | | |
| Styrene | 10.12 | 0.50 | 10 | 0 | 101 | 65 | 135 | 0 | 0 | | |
| Tetrachloroethene | 11.23 | 0.50 | 10 | 0 | 112 | 92 | 135 | 0 | 0 | | |
| Tetrahydrofuran | 11.8 | 1.0 | 10 | 0 | 118 | 92 | 135 | 0 | 0 | | |
| Toluene | 12.55 | 0.50 | 9 | 0 | 126 | 65 | 135 | 0 | 0 | | |
| trans-1,2-Dichloroethene | 10.88 | 0.50 | 10 | 0 | 109 | 65 | 135 | 0 | 0 | | |
| trans-1,3-Dichloropropene | 12.12 | 0.50 | 10 | 0 | 121 | 65 | 135 | 0 | 0 | | |
| Trichloroethene | 11.06 | 0.50 | 10 | 0 | 111 | 65 | 135 | 0 | 0 | | |
| Trichlorofluoromethane(F-11) | 10.33 | 0.50 | 10 | 0 | 103 | 92 | 135 | 0 | 0 | | |
| Trichlorotrifluoroethane(F-113) | 10.33 | 0.50 | 10 | 0 | 103 | 92 | 135 | 0 | 0 | | |
| Vinyl acetate | 12.14 | 0.50 | 10 | 0 | 121 | 92 | 135 | 0 | 0 | | |
| Vinyl chloride | 10.02 | 0.50 | 10 | 0 | 100 | 65 | 135 | 0 | 0 | | |
| Surr: 4-Bromofluorobenzene | 10.17 | 0.50 | 10 | 0 | 102 | 70 | 130 | 0 | 0 | | |
| Sample ID LCSD-R30598 | SampType: LCSD | TestCod | TestCode: TO15 | Units: ppbv | | Prep Date: | | | Run ID: MS05_021218A | 05_021218A | |
| Client ID: ZZZZZ | Batch ID: R30598 | TestN | TestNo: TO15 | | | Analysis Date: | : 12/19/2002 | 002 | SeqNo: 341818 | 818 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | 10.66 | 0.50 | 10 | 0 | 107 | 65 | 135 | 10.67 | 0.0938 | 25 | |
| 1,1,2,2-Tetrachloroethane | 10.64 | 0.50 | 10 | 0 | 106 | 92 | 135 | 10.58 | 0.566 | 25 | |
| 1,1,2-Trichloroethane | 10.91 | 0.50 | 10 | 0 | 109 | 65 | 135 | 10.81 | 0.921 | 25 | |
| | | | | Max later program to copye y province and a second of the | and the same of th | | | | | | |

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

Page 5 of 8

B - Analyte detected in the associated Method Blank



Mactec CLIENT:

02120918 Work Order: South Mesa WQARF/70211-2-0064-2.55

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

| Sample ID LCSD-R30598 | SampType: LCSD | TestCoc | TestCode: T015 | Units: ppbv | | Prep Date: | | | Run ID: MS | Run ID: MS05_021218A | |
|----------------------------|------------------|---------|----------------|-------------|------|----------------|------------|-------------|---------------|----------------------|---------------------------------------|
| Client ID: ZZZZZ | Batch ID: R30598 | Testh | TestNo: TO15 | | | Analysis Date: | 12/19/2002 | 002 | SeqNo: 341818 | 1818 | · · · · · · · · · · · · · · · · · · · |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit Hi | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethane | 10.75 | 0.50 | 10 | 0 | 108 | 65 | 135 | 10.74 | 0.0931 | 25 | |
| 1,1-Dichloroethene | 10.14 | 0.50 | 10 | 0 | 101 | 65 | 135 | 10.25 | 1.08 | 25 | |
| 1,2,4-Trichlorobenzene | 10.09 | 1.0 | 10 | 0 | 101 | 65 | 135 | 10.05 | 0.397 | 25 | |
| 1,2,4-Trimethylbenzene | 12.25 | 0.50 | 10 | 0 | 122 | 65 | 135 | 12.16 | 0.737 | 25 | |
| 1,2-Dibromoethane | 11.28 | 0.50 | 10 | 0 | 113 | 65 | 135 | 11.17 | 0.980 | 25 | |
| 1,2-Dichlorobenzene | 11.02 | 0.50 | 10 | 0 | 110 | 65 | 135 | 10.94 | 0.729 | 25 | |
| 1,2-Dichloroethane | 10.81 | 0.50 | 10 | 0 | 108 | 65 | 135 | 10.84 | 0.277 | 25 | |
| 1,2-Dichloropropane | 11.02 | 0.50 | 10 | 0 | 110 | 65 | 135 | 11.01 | 0.0908 | 25 | |
| 1,3,5-Trimethylbenzene | 12.63 | 0.50 | 10 | 0 | 126 | 65 | 135 | 12.58 | 0.397 | 25 | |
| 1,3-Butadiene | 6.63 | 0.50 | 10 | 0 | 99.3 | 65 | 135 | 10.01 | 0.802 | 25 | |
| 1,3-Dichlorobenzene | 11.22 | 0.50 | 10 | 0 | 112 | 65 | 135 | 11.1 | 1.08 | 25 | |
| 1,4-Dichlorobenzene | 11.35 | 0.50 | 10 | 0 | 114 | 65 | 135 | 11.33 | 0.176 | 25 | |
| 2,2,4-Trimethylpentane | 11.54 | 0.50 | 10 | 0 | 115 | 65 | 135 | 11.47 | 0.608 | 25 | |
| 2-Butanone (MEK) | 10.72 | 1.0 | 10 | 0 | 107 | 65 | 135 | 10.63 | 0.843 | 25 | |
| 2-Hexanone | 12.4 | 1.0 | 10 | 0 | 124 | 65 | 135 | 12.21 | 1.54 | 25 | |
| 2-Propanol | 9.18 | 1.0 | 10 | 0 | 91.8 | 65 | 135 | 9.04 | 1.54 | 25 | |
| 4-Ethyltoluene | 12.59 | 0.50 | 10 | 0 | 126 | 65 | 135 | 12.54 | 0.398 | 25 | |
| 4-Methyl-2-pentanone | 12.06 | 1.0 | 10 | 0 | 121 | 65 | 135 | 11.98 | 0.666 | 25 | |
| Acetone | 10.41 | 2.0 | 10 | 0 | 104 | 65 | 135 | 10.17 | 2.33 | 25 | |
| Allyl chloride | 11.45 | 0.50 | 10 | 0 | 114 | 65 | 135 | 11.36 | 0.789 | 25 | |
| Benzene | 11.65 | 0.50 | 10 | 0 | 116 | 65 | 135 | 11.54 | 0.949 | 25 | |
| Benzyl chloride | 11.58 | 2.0 | 10 | 0 | 116 | 65 | 135 | 11.52 | 0.519 | 25 | |
| Bromodichloromethane | 10.84 | 0.50 | 10 | 0 | 108 | 65 | 135 | 10.69 | 1.39 | 25 | |
| Bromoethene(Vinyl Bromide) | 10.03 | 0.50 | 10 | 0 | 100 | 65 | 135 | 10.05 | 0.199 | 25 | |
| Bromoform | 10.72 | 0.50 | 10 | 0 | 107 | 65 | 135 | 10.65 | 0.655 | 25 | |
| Bromomethane | 10.16 | 0.50 | 10 | 0 | 102 | 65 | 135 | 10.21 | 0.491 | 25 | |
| Carbon disulfide | 9.78 | 0.50 | 10 | 0 | 97.8 | 65 | 135 | 9.77 | 0.102 | 25 | |
| Carbon tetrachloride | 10.76 | 0.50 | 10 | 0 | 108 | 65 | 135 | 10.82 | 0.556 | 25 | |
| | | | | | | | | | | | |

S - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 6 of 8

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Mactec CLIENT: 02120918 Work Order: South Mesa WQARF/70211-2-0064-2.55

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

| Sample ID LCSD-R30598 | SampType: LCSD | TestCo | TestCode: T015 | Units: ppbv | | Prep Date: | | | Run ID: MS | Run ID: MS05_021218A | |
|----------------------------------|------------------|--------|----------------|-------------|------|----------------|-------------|-------------|---------------|----------------------|------|
| Client ID: ZZZZZ | Batch ID: R30598 | Test | TestNo: T015 | | | Analysis Date: | 12/19/2002 | 7 | SeqNo: 341818 | 818 | |
| Analyte | Result | PoL | SPK value | SPK Ref Val | %REC | LowLimit H | HighLimit R | RPD Ref Val | %RPD | RPDLimit Q | Qual |
| Chlorobenzene | 10.75 | 0.50 | 10 | 0 | 108 | 65 | 135 | 10.69 | 0.560 | 25 | |
| Chloroethane | 10.1 | 0.50 | 10 | 0 | 101 | . 65 | 135 | 10.07 | 0.297 | 25 | |
| Chloroform | 10.69 | 0.50 | 10 | 0 | 107 | 65 | 135 | 10.66 | 0.281 | 25 | |
| Chloromethane | 9.87 | 0.50 | 10 | 0 | 98.7 | 65 | 135 | 9.88 | 0.101 | 25 | |
| cis-1,2-Dichloroethene | 11.49 | 0.50 | 10 | 0 | 115 | 65 | 135 | 11.41 | 0.699 | 25 | |
| cis-1,3-Dichloropropene | 12.4 | 0.50 | 10 | 0 | 124 | 65 | 135 | 12.15 | 2.04 | 25 | |
| Cyclohexane | 12.36 | 0.50 | 10 | 0 | 124 | 65 | 135 | 12.53 | 1.37 | 25 | |
| Dibromochloromethane | 10.78 | 0.50 | 10 | 0 | 108 | 65 | 135 | 10.66 | 1.12 | 25 | |
| Dichlorodifluoromethane(F-12) | 10.1 | 0.50 | 10 | 0 | 101 | 65 | 135 | 10.14 | 0.395 | 25 | |
| Dichlorotetrafluoroethane(F-114) | 10.08 | 0.50 | 10 | 0 | 101 | 65 | 135 | 10.1 | 0.198 | 25 | |
| Ethyl Acetate | 11.57 | 0.50 | 10 | 0 | 116 | 65 | 135 | 11.49 | 0.694 | 25 | |
| Ethylbenzene | 12.48 | 0.50 | 10 | 0 | 125 | 65 | 135 | 12.43 | 0.401 | 25 | |
| Heptane | 11.45 | 0.50 | 10 | 0 | 114 | 65 | 135 | 11.34 | 0.965 | 25 | |
| Hexachlorobutadiene | 9.49 | 1.0 | 10 | 0 | 94.9 | 65 | 135 | 9.44 | 0.528 | 25 | |
| Hexane | 12.29 | 0.50 | 10 | 0 | 123 | 65 | 135 | 12.29 | 0 | 25 | |
| m&p-Xylene | 24.71 | 1.0 | 20 | 0 | 124 | 65 | 135 | 24.55 | 0.650 | 25 | |
| Methyl tert-butyl ether | 11.34 | 1.0 | 10 | 0 | 113 | 65 | 135 | 11.25 | 0.797 | 25 | |
| Methylene chloride | 9.12 | 0.50 | 10 | 0 | 91.2 | 92 | 135 | 9.19 | 0.765 | 25 | |
| o-Xylene | 12.39 | 0.50 | 10 | 0 | 124 | 65 | 135 | 12.35 | 0.323 | 25 | |
| Propene (Propylene) | 10.23 | 0.50 | 10 | 0 | 102 | 65 | 135 | 10.29 | 0.585 | 25 | |
| Styrene | 10.24 | 0.50 | 10 | 0 | 102 | 65 | 135 | 10.12 | 1.18 | 25 | |
| Tetrachloroethene | 11.28 | 0.50 | 10 | 0 | 113 | 65 | 135 | 11.23 | 0.444 | 25 | |
| Tetrahydrofuran | 11.78 | 1.0 | 10 | 0 | 118 | 65 | 135 | 11.8 | 0.170 | 25 | |
| Toluene | 12.65 | 0.50 | 10 | 0 | 126 | 65 | 135 | 12.55 | 0.794 | 25 | |
| trans-1,2-Dichloroethene | 10.83 | 0.50 | 10 | 0 | 108 | 99 | 135 | 10.88 | 0.461 | 25 | |
| trans-1,3-Dichloropropene | 12.24 | 0.50 | 10 | 0 | 122 | 65 | 135 | 12.12 | 0.985 | 25 | |
| Trichloroethene | 11.14 | 0.50 | 10 | 0 | 111 | 65 | 135 | 11.06 | 0.721 | 25 | |
| Trichlorofluoromethane(F-11) | 10.32 | 0.50 | 10 | 0 | 103 | 65 | 135 | 10.33 | 0.0969 | 52 | |
| | | | | | | | | | | | |

Page 7 of 8 B - Analyte detected in the associated Method Blank S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

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Mactec CLIENT:

02120918 Work Order: South Mesa WQARF/70211-2-0064-2.55

Project:

ANALYTICAL QC SUMMARY REPORT TestCode: TO15

| Sample ID LCSD-R30598 | SampType: LCSD | TestCoo | TestCode: T015 | Units: ppbv | | Prep Date: | :e: | | Run ID: MS | Run ID: MS05_021218A | _ |
|---------------------------------|------------------|---------|----------------|-----------------------|------|--------------|---------------------------|-------------------------------------|---------------|----------------------|------|
| Client ID: ZZZZZ | Batch ID: R30598 | Test | TestNo: TO15 | | | Analysis Dat | Analysis Date: 12/19/2002 | 002 | SeqNo: 341818 | 818 | |
| Analyte | Result | PQL | SPK value | SPK value SPK Ref Val | %REC | LowLimit | HighLimit | %REC LowLimit HighLimit RPD Ref Val | %RPD | %RPD RPDLimit Qual | Qual |
| Trichlorotrifluoroethane(F-113) | 10.28 | 0.50 | 10 | 0 | 103 | 65 | 135 | 10.33 | 0.485 | 25 | |
| Vinyl acetate | 12.24 | 0.50 | 10 | 0 | 122 | 65 | 135 | 12.14 | 0.820 | 25 | |
| Vinyl chloride | 10.01 | 0.50 | 10 | 0 | 100 | 65 | 135 | 10.02 | 0.0999 | 25 | |
| Surr: 4-Bromofluorobenzene | 10.19 | 0.50 | 10 | 0 | 102 | 20 | 130 | 0 | 0 | | |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 8 of 8

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Sample Receipt Checklist

| Client Name MACTEC | Date an | d Time Received | 15/18/05 1 | 350 |
|--|------------------|---------------------------------------|-----------------------------|---------------------|
| Lab Number 0-3(2-09(8 | Receive | ed by $\bigcap \varphi$ | | |
| Checklist completed by Signature / | 12/18/02 Date | Containers: | Brass Sleeves Glass Jars | |
| Matrix: A | Carrier name: | DP | Methanol Kits | |
| Shipping container/cooler in good condition? | | Yes 🔀 | No | Not Present |
| Custody seals intact on shipping container/coole | r? | Yes | No | Not Present 🔀 |
| Custody seals intact on sample bottles? | | Yes | No | Not Present 👱 |
| Chain of custody present? | | Yes 👱 | No | |
| Chain of custody signed when relinquished and | received? | Yes 🔀 | No | |
| Chain of custody agrees with sample labels? | | Yes 座 | No | |
| Samples in proper container/bottle? | v | Yes y | No | |
| Sample containers intact? | | Yes 🗩 | No | |
| All samples received within holding time? | | Yes 🗩 | No | |
| Water - VOA vials have zero headspace? | | | Yes | No |
| Number of sample bottles: 7 5 16 + 7 frow | Preserved: | | Unpreserved: | |
| Temperature of samples? regulators | <u>Ambiento</u> | Blue Ice | Wet Ice | Not Present \succeq |
| Water - pH acceptable upon receipt? | | Yes | No | Not applicable _> |
| pH: Metals 413.1 Cyanide 418.1 Nutrients Sulfide | | Other | | |
| Adjusted? Results? | | | | |
| Any No response must be detailed in the comments section | below: | | | |
| Person/Client contacted: | | | | |
| Comments: | | | | |
| | | | | |
| Corrective Action: | | · · · · · · · · · · · · · · · · · · · | | |
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| 1 (480) 967-1310 F/ 5027 (623) 780-470 | 2 85714 (520) 807-3 | 366-772-5227) |
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| 5281 (480) 967-1310 F/ \Z 85027 (623) 780-470 | n, AZ 85714 (520) 807-3 | (1-866-772-5227) |
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| mpe, AZ 85281 (480) 967-1310 F/ Phoenix, AZ 85027 (623) 780-470 | 10, Tucson, AZ 85714 (520) 807-3 | -7PALABS (1-866-772-5227) |
| Tempe, AZ 85281 (480) 967-1310 F/ n, Phoenix, AZ 85027 (623) 780-470 | . 110, Tucson, AZ 85714 (520) 807-3 | 56-7PALABS (1-866-772-5227) |
| t, Tempe, AZ 85281 (480) 967-1310 F/ sen, Phoenix, AZ 85027 (623) 780-470 | ite 110, Tucson, AZ 85714 (520) 807-3 | -866-7PALABS (1-866-772-5227) |
| et, Tempe, AZ 85281 (480) 967-1310 F/ Idsen, Phoenix, AZ 85027 (623) 780-470 | Suite 110, Tucson, AZ 85714 (520) 807-3 | 1-866-7PALABS (1-866-772-5227) |
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| 1725 W. 17th Street, Tempe, AZ 85281 (480) 967-1310 F/ lix - 1501 W. Knudsen, Phoenix, AZ 85027 (623) 780-470 | 55 S. Park Ave, Suite 110, Tucson, AZ 85714 (520) 807-3 | m or call toll-free 1-866-7PALABS (1-866-772-5227) |
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PALCOC01

Patrick Cook - MACFEC

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