October 30, 2007

Mr. Mark Riggle
Project Manager
Voluntary Cleanup Section
Texas Commission on Environmental Quality
Mail Code 221
12118 North IH 35, Building D
Austin, Texas 78753
Pr

Project No. 0060761

Subject:

Third Quarter 2007 Monitoring Data Transmittal Former Cameron Iron Works Facility, Houston, Texas VCP No. 221

Dear Mr. Riggle:

On behalf of Cameron International Corporation (Cameron), Environmental Resources Management (ERM) is providing this transmittal of ground water data to the Texas Commission on Environmental Quality (TCEQ) for your records. This report presents a summary of the actions undertaken in responses to an apparent movement of the plume in some areas of the Former Cameron Iron Works Facility (the facility). A summary table (Table 1) has been created to convey this information, as well as the future course of action for each area.

Six ground water samples were collected between July 31 and August 28, 2007 at monitor well locations (MW-70, MW-78, MW-79, MW-93, MW-96, and MW-125) and analyzed for the site-specific constituents of concern (COCs). Additionally, MW-70 was re-sampled on August 28, 2007 to confirm a concentration of trichloroethene (TCE) reported on July 31, 2007. These sample locations are located in the residential neighborhood south of the facility. This quarterly sampling event was performed at these locations because the results from April 2007 exceeded the following trigger:

- the method quantitation limits (MQLs) at MW-70; and
- the MQLs and critical protective concentration levels (PCLs) at MW-78, MW-79, MW-93, MW-96, and MW-125.

A summary of the ground water analytical data for the Third Quarter 2007 Sampling Event is presented in Table 2. The data usability summaries and laboratory reports are provided as Attachment 2. The ground water analytical results were compared to the response action items outlined in the *Response Action Plan* (RAP) dated August 28, 2003 and summarized in Table 1.

Environmental Resources Management

15810 Park Ten Place Suite 300 Houston, Texas 77084 (281) 600-1000 (281) 600-1001 (fax)



October 30, 2007 Mr. Mark Riggle Texas Commission on Environmental Quality Page 2

### Conclusion

The following response actions will be initiated to meet the requirements of the RAP:

- COC concentrations will be monitored in ground water at MW-70, MW-78, MW-93, MW-96, and MW-125 on a quarterly basis;
- Affected ground water downgradient of MW-96 will be delineated;
- In the areas of MW-78, MW-93, and MW-125, monitoring/injection wells (MW-150 though MW-155 and IW-47 through IW-52) will be monitored for the presence of permanganate; and
- The need for additional treatment will be evaluated at MW-78, MW-93, and MW-125.

Cameron was recently granted access in the vicinity of MW-96 to delineate the affected ground water in the area downgradient of MW-96. The drilling activities are being scheduled and should be completed by November 15, 2007. The next quarterly sampling event will be in January 2008 because a regularly scheduled semiannual event is scheduled for October 2007.

Please contact Mr. Ted Fasting of Cameron International Corporation at (713) 513-3325 or me at (281) 600-1074 with any questions or comments.

Sincerely,

**Environmental Resources Management** 

Gregory J. Wheeler, P.G.

GJW/mnt Attachments

cc: Ted Fasting, Cameron International Corporation
Bruce Himmelreich, Cameron International Corporation (without attachments)
Paul Stefan, Environmental Resources Management (Houston)
Marsha Hill, Texas Commission on Environmental Quality, Region X II

# **Tables**

Attachment 1

October 30, 2007 Project No. 0060761

Environmental Resources Management 15810 Park Ten Place, Suite 300 Houston, Texas 77084 (281) 600-1000

TABLE 1

Summary of Response Action Plan Implementation Third Quarter 2007 Monitoring Data Transmittal

Former Cameron Iron Works Facility Houston, Texas

| Sampling                               | Frequency               |                    |                        | Quarterly       |                    | Quarterly          | Semiannually | Quarterly         | Quarterly          | Quarterly         |
|--|-------------------------|--------------------|------------------------|-----------------|--------------------|--------------------|--------------|-------------------|--------------------|-------------------|
| In-situ<br>Treatment                   | (Yes or No)             |                    |                        | no (b)          |                    | yes                | υo           | yes               | по (е)             | yes               |
| Need for<br>Additional<br>Notification | (Yes or No)             |                    |                        | no (a)          |                    | yes (c)            | υo           | по (а)            | yes (d)            | no (a)            |
| COCs elevated                          | above PCL               |                    |                        | trichloroethene |                    | 1,1-dichloroethene | none         | tetrachloroethene | 1,1-dichloroethene | tetrachloroethene |
|  | COCs elevated above MQL | 1,1-dichloroethane | cis-1,2-dichloroethane | trichloroethene | 1,1-dichloroethane | 1,1-dichloroethene | none         | tetrachloroethene | 1,1-dichloroethene | tetrachloroethene |
| ;                                      | Well                    |                    | MW-70                  |                 |                    | MW-78              | MW-79        | MW-93             | MW-96              | MW-125            |

# NOTES:

COCs = Chemicals of Concern

MQL = Method Quantitation Limit

PCL = Protective Concentration Level

(a) Properties in the vicinity of the affected ground water have been previously notified.

(b) MW-70 will continue to be monitored on a quarterly basis until the slightly elevated reported concentration of trichloroethene is confirmed with four quarters of reported concentrations above the critical PCL.

(c) Notification letters were sent to property owners in the vicinity of MW-78 on June 29, 2007; therefore, additional notification is not necessary.

(d) Notification letters were sent to property owners in the vicinity of MW-96 on April 19, 2007; therefore, additional notification is not necessary. (e) The in-situ treatment in the vicinity of MW-96 will be evaluated after delineation is complete.

TABLE 2

Third Quarter 2007 Monitoring Data Transmittal Summary of Monitor Well Ground Water Data

Former Cameron Iron Works Facility Houston, Texas

| 79        |            | 8/2/2007    | ND (0:0050)        | 0.0050             | ND (0.0050)        | ND (0.0050)            | ND (0.0050)       | ND (0.0050)     | ND (0.0020)    |           |            |             |                    |                    |                    |                        |                   |                 |                |
|-----------|------------|-------------|--------------------|--------------------|--------------------|------------------------|-------------------|-----------------|----------------|-----------|------------|-------------|--------------------|--------------------|--------------------|------------------------|-------------------|-----------------|----------------|
| WW-79     | 26         | 5/21/2007   | 0.0011 J           | 0.039              | ND (0:0050)        | ND (0.0050)            | ND (0:0050)       | ND (0.0050)     | ND (0.0020)    | .125      | 2          | 8/6/2007    | ND (0.0050)        | ND (0.0050)        | ND (0:0050)        | ND (0.0050)            | 0.033             | ND (0.0050)     | ND (0.0020)    |
| -78       | 3          | 8/1/2007    | 0.011              | 0.26               | ND (0.0050)        | 0.0016 J               | ND (0.0050)       | ND (0.0050)     | ND (0.0020)    | MW-125    | 32         | 4/26/2007   | ND (0:0050)        | ND (0:0050)        | ND (0:0050)        | ND (0.0050)            | 0.014             | ND (0.0050)     | ND (0.0020)    |
| MW-78     | 26         | 4/24/2007   | 0.016              | 0.13               | ND (0.0050)        | 0.0040                 | ND (0.0050)       | ND (0.0050)     | 0.00079        | 96        |            | 8/15/2007   | 0.0012 J           | 0.018              | ND (0.0050)        | ND (0.0050)            | ND (0.0050)       | ND (0.0050)     | ND (0.0020)    |
|           |            | 8/28/2007   | AA                 | ΑΝ                 | ΑN                 | ΝΑ                     | ΝΑ                | 0.0064          | NA             | 96-WW     | 33         | 4/26/2007   | ND (0,0050)        | 0.015              | ND (0.0050)        | ND (0.0050)            | ND (0.0050)       | ND (0.0050)     | ND (0.0020)    |
| MW-70     | 25         | 7/31/2007   | 0.010              | 0.00088 J          | ND (0.0050)        | 0.018                  | 0.00069 J         | 0.0058          | 0.0015 J       | 33        |            | 8/6/2007    | ND (0.0050)        | ND (0.0050)        | ND (0.0050)        | 0.00073 J              | 0.080             | ND (0.0050)     | ND (0.0020)    |
|           |            | 4/24/2007   | 0.0075             | ND (0.0050)        | ND (0.0050)        | 0.0055                 | ND (0.0050)       | 0.0016 J        | ND (0.0020)    | WW-93     | 43         | 4/25/2007   | ND (0.0050)        | ND (0.0050)        | ND (0.0050)        | ND (0.0050)            | 0.15              | (0.0050) CIN    | ND (0.0020)    |
| Location: | Depth: (b) | Date:       | I                  |                    |                    |                        |                   |                 |                | Location: | Depth: (b) | . Date:     | •                  |                    |                    |                        | <b>L</b>          | J               |                |
|           | Critical   | PCLs (a)    | 2.4                | 0.0070             | 0.0050             | 0.070                  | 0.0050            | 0.0050          | 0.0020         |           | Critical   | PCLs (a)    | 2.4                | 0.0070             | 0.0050             | 0.070                  | 0.0050            | 0.0050          | 0.0020         |
|           |            | MQL         | 0.0050             | 0.0050             | 0.0050             | 0,0050                 | 0.0050            | 0.0050          | 0.0020         |           |            | MQL         | 0.0050             | 0.0050             | 0.0050             | 0.0050                 | 0.0050            | 0.0050          | 0.0020         |
|           |            | Constituent | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | cis-1,2-Dichloroethene | Tetrachloroethene | Trichloroethene | Vinyl Chloride |           |            | Constituent | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | cis-1,2-Dichloroethene | Tetrachloroethene | Trichloroethene | Vinyl Chloride |

# NOTES:

0.0070] = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater critical PCLs.

Bold values exceed the MQL.

The reported concentrations are in mg/L.

ND (0.0050) = Not Defected above the method quantitation limit given in parentheses.

NA = Not Analyzed

MOL = Method Quantitation Limit.

<sup>(</sup>a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater PCLs, 30-acre source area, Table 3, table for TRRP Rule dated April 24, 2007. (b) The sample depths are reported in feet below ground surface.

J = Estimated data, the reported sample concentration is below the sample quantitation limit.

# **Data Usability Summaries and Laboratory Reports** *Attachment* 2

October 30, 2007 Project No. 0060761

Environmental Resources Management 15810 Park Ten Place, Suite 300 Houston, Texas 77084 (281) 600-1000

#### Attachment 2-1

Data Usability Summary and Laboratory Report (0708117)
Third Quarter Ground Water Sampling Event

Former Cameron Iron Works Facility Houston, Texas

Environmental Resources Management (ERM) reviewed a laboratory analytical data package (0708117) from e-Lab Analytical, Inc. of Houston, Texas for the analysis of seven ground water samples collected on July 31, August 1, 6, and 15, 2007 at the Former Cameron Iron Works Site in Houston, Texas (the facility). Data were reviewed to assess conformance with the requirements of the *Review and Reporting of COC Concentration Data* TRRP-13 (December 2002), and adherence to project data quality objectives.

**Purpose of Sampling Event:** Quarterly sampling event to monitor select VOCs downgradient of the facility as a response action triggered by the April 2007 results.

The data generated were evaluated in terms of representativeness, precision, accuracy, completeness and comparability.

Analysis requested included:

• SW-846 8260B – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

The data were reviewed and validated as described in the TRRP-13 Guidance Document and the results of the review/validation are discussed in this Data Usability Summary (DUS).

#### INTRODUCTION

Twelve ground water samples and one field blank were provided to the laboratory for analysis. Thirteen samples were analyzed for seven volatile organic compounds (VOCs) (1,1-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride). Two trip blank were provided to the laboratory but were not analyzed per ERM's request. Rinsate and equipment blanks were not provided to the laboratory for analysis. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

## DATA REVIEW/VALIDATION RESULTS

#### Analytical Results

The sample data are reported in mg/L for ground water samples. *Not Detected* results are reported as less than the value of the sample quantitation limit as defined by the TRRP rule. Method detection limits (MDLs) and method quantitation limits (MQLs) were also provided as part of the analytical results.

## Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody. The samples were received in the appropriate containers and in good condition with the paperwork properly completed. Sample receipt temperatures were within the acceptance criteria of  $4 \pm 2$  °C. The samples were preserved in the field as specified in SW-846 Table 2-36. Samples were prepared and analyzed within holding times as specified in SW-846 Table 2-36.

#### Calibrations and Tunes

Initial and continuing calibration verification was within method acceptance limits for VOC. The LRC also documents satisfactory instrument performance calibrations (GC/MS tunes) for VOC analyses.

### **Blanks**

VOCs were reported as *Not Detected* in the method blanks and the field blanks.

## **Surrogate Recoveries**

VOC sample surrogate recoveries were within the TRRP defined acceptance limits.

### **Internal Standards**

According to the LRC, the internal standards were within method-required limits.

## **Laboratory Control Samples**

The laboratory control sample/laboratory control sample duplicates (LCS/LCSD) recoveries met the TRRP defined acceptance limits for VOCs.

## Matrix Spike/Matrix Spike Duplicates

Batch R53324 matrix spike/matrix spike duplicate (MS/MSD) recoveries were within the TRRP defined acceptance limits for VOCs.

VOC analysis batches R53125, R53171, and R53226 were not project related and therefore were not assessed.

#### Field Precision

Field duplicate samples were not collected during this sampling event.

#### Field Procedures

The samples were collected using documented sampling procedures.

### **SUMMARY**

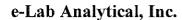
The data quality objectives and characteristics (i.e., representativeness, precision and accuracy, completeness, and comparability) for the project were met. Therefore, the ground water analytical data are useable for the purpose of providing current data on concentrations of chemicals of concern (COCs) in the ground water beneath and downgradient of the Former Cameron Iron Works Facility.

## **TABLE 2-1-1**

## Cross Reference Field Sample Identifications and Laboratory Identifications Third Quarter Ground Water Sampling Event

## Former Cameron Iron Works Facility Houston, Texas

| Field ID   | Laboratory ID   |
|------------|-----------------|
| 0708117-01 | MW-132          |
| 0708117-02 | MW-70           |
| 0708117-03 | MW-138          |
| 0708117-04 | MW-146          |
| 0708117-05 | MW-78           |
| 0708117-06 | MW-135          |
| 0708117-07 | MW-136          |
| 0708117-08 | MW-137          |
| 0708117-09 | MW-140          |
| 0708117-10 | FB-080107       |
| 0708117-11 | Trip Blank      |
| 0708117-12 | MW-93           |
| 0708117-13 | MW-125          |
| 0708117-14 | Trip Blank 1301 |
| 0708117-15 | MW-96           |





10450 Standliff Rd, Suite 210 Houston, Texas 77099-4338 (281) 530-5656 Fax (281) 530-5887

August 20, 2007

Marcel St. Marie ERM Southwest, Inc. 15810 Park Ten Place Suite 300 Houston, TX 77084

Tel: (281) 600-1130 Fax: (281) 600-1001

Re: Silber Road Project Work Order: 0708117

Dear Marcel St. Marie,

e-Lab Analytical, Inc. received 15 samples on 8/15/2007 through 8/6/2007 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 31.

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

Sincerely,

Electronically approved by: Rebecca L. Hunf

Lora Terrill

Lora Terrill

**VP** Lab Operations



CLIENT:

ERM Southwest, Inc.

Project:

Silber Road Project

Work Order:

0708117

TRRP Laboratory Data Package Cover Page

Date: August 20, 2007

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c)The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD OC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;?
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [NA] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

## Lora Terrill

Lora Terrill

VP Lab Operations

|          | *              | Laboratory Review Ch   | necklist: Reportable Data  |  | •          | ·  | ·               |  |
|----------|----------------|--|--|--|--|--|-----------------|--|
| Lab      | orato          | ry Name: e-Lab Analytical, Inc.  | LRC Date: 08/14/2007   |  |  |  |                 |  |
| Proj     | ect N          | ame: Silber Rd   | Laboratory Job Number: 0708117   |  |  |  |                 |  |
| Rev      | iewei          | r Name: Lora Terrill   | Prep Batch Number(s): R53125, R53171, R53521   | R53226   | , and  | l R53  | 521,            |  |
| $\#^1$   | A <sup>2</sup> | Description  |  | Yes  | No   | NA <sup>3</sup>                                  | NR <sup>4</sup> | ER# <sup>5</sup>                                 |
| R1       | OI             | CHAIN-OF-CUSTODY (C-O-C)   |  | 17, 5110.1<br>17, 5110.1<br>17, 6211.15  |  |  |                 |  |
|          |                | 1) Did samples meet the laboratory's standard conditions                                     | of sample acceptability upon receipt?  | X  |  |  |                 |  |
|          |                | 2) Were all departures from standard conditions described                                    |  | X  |  | <del>                                     </del> | İ               |  |
| R2       | OI             | SAMPLE AND QUALITY CONTROL (QC) IDENTI   |  | 5/76/00  | 140404   | 1 1000000  | 36643           | 10000000   |
| <u> </u> | 01             | 1) Are all field sample ID numbers cross-referenced to the                                   |  | X  |  | A (13, 11)                                       | Laware          |  |
| ĺ        |                | 2) Are all laboratory ID numbers cross-referenced to the                                     |  | $\frac{\lambda}{X}$  |  | ├  | <del> </del>    | <del>                                     </del> |
| R3       | OI             | TEST REPORTS   | corresponding QC data:   |  | 111511   | 107500   |                 |  |
|          | 01             | Were all samples prepared and analyzed within holding  | artimee?   | X  | Transition                                       |  | 1,000           | 100000000000000000000000000000000000000          |
| İ        |                | 2) Other than those results < MQL, were all other raw va                                     |  | X  | -  | -  | _               | <del> </del>                                     |
| l        |                | 3) Were calculations checked by a peer or supervisor?  | nuos oracketed by campration standards:  | $\frac{x}{x}$  | ┢  |  |                 |  |
| l        |                | 4) Were all analyte identifications checked by a peer or s                                   | unervisor?   | X  |  |  |                 | <del>                                     </del> |
| l        |                | 5) Were sample quantitation limits reported for all analytic                                 |  | X  | <b></b>  |  |                 |  |
| l        |                | 6) Were all results for soil and sediment samples reported                                   |  | 12   | $\vdash$   | X  | <del> </del>    |  |
| l        |                | 7) Was % moisture (or solids) reported for all soil and sec                                  |  |  |  | X  | <u> </u>        |  |
| l        |                | 8) If required for the project, TICs reported?   |  | _  | <del>                                     </del> | X  |                 |  |
| R4       | 0              | SURROGATE RECOVERY DATA  |  | 100000   |  |  |                 |  |
|          | <del> </del>   | 1) Were surrogates added prior to extraction?  |  | X  |  |  |                 | 1  |
| l        |                | 2) Were surrogate percent recoveries in all samples within                                   | n the laboratory OC limits?  | X  |  |  |                 |  |
| R5       | OI             | TEST REPORTS/SUMMMARY FORMS FOR BLAN   |  | le de la constante de la const | 1,000  | 95000  | 3031            | -0.00001100                                      |
|          |                | 1) Were appropriate type(s) of blanks analyzed?  | TOTAL POLICE AND ADDRESS OF THE POLICE AND A | X  |  |  |                 |  |
| l        |                | 2) Were blanks analyzed at the appropriate frequency?  |  | X  | <b></b>  |  |                 |  |
| l        |                | 3) Were method blanks taken through the entire analytical                                    | al process, including preparation and, if  | X  |  |  |                 |  |
| l        |                | applicable, cleanup procedures?  |  |  |  |  |                 |  |
|          |                | 4) Were blank concentrations < MQL?  |  | X  |  |  |                 |  |
| R6       | OI             | LABORATORY CONTROL SAMPLES (LCS):  |  |  | 11,511   |  |                 |  |
| 1        |                | 1) Were all COCs included in the LCS?  |  | X  |  |  |                 |  |
|          |                | 2) Was each LCS taken through the entire analytical proc                                     | edure, including prep and cleanup steps?   | X  |  |  |                 |  |
|          |                | 3) Were LCSs analyzed at the required frequency?   |  | X  |  |  |                 |  |
|          |                | 4) Were LCS (and LCSD, if applicable) %Rs within the la                                      |  | X  | L  | ļ  |                 |  |
|          |                | 5) Does the detectability data document the laboratory's c                                   | capability to detect the COCs at the MDL   | X  |  |  |                 |  |
|          | 1              | used to calculate the SQLs?  |  |  | ļ  | L  |                 | $\sqcup$   |
| D-       | 0.7            | 6) Was the LCSD RPD within QC limits?  |  | 5,3327.5   | 100000   | X  |                 |  |
| R7       | OI             | MATRIX SPIKE (MS) AND MATRIX SPIKE DUPL  |  |  |  |  |                 |  |
|          |                | 1) Were the project/method specified analytes included in                                    |  | X  |  | _  |                 |  |
|          |                | 2) Were MS/MSD analyzed at the appropriate frequency   | *****  | X  | 37   |  | <u> </u>        |  |
|          |                | 3) Were MS (and MSD, if applicable) %Rs within the lat                                       | poratory QC limits?  | 1 77   | X  |  |                 | 1  |
| R8       | OI             | 4) Were MS/MSD RPDs within laboratory QC limits?   |  | X  | turita is  | 1.5353-935                                       | 346.14          | 546050503  |
| Ko       | OI.            | ANALYTICAL DUPLICATE DATA   1) Were appropriate analytical duplicates analyzed for ea        | مام سرمان و  | 989.03   | 444444   | v  | Assist          |  |
|          |                | 2) Were analytical duplicates analyzed for each 2.   |  | -  |  | X  | ļ               |  |
|          |                |  |  | +  |  | X  |                 |  |
| R9       | OI             | 3) Were RPDs or relative standard deviations within the                                      | laboratory QC ilmits?  | 100000   | 330003   | _^   | 2.3.37          | SEA HOLES  |
|          | 101            | METHOD QUANTITATION LIMITS (MQLS):  1) Are the MQLs for each method analyte listed and inclu | ided in the laboratory data poeksasa?  | X  | 100,000  |  | nayaya          | ringna in  |
|          |                | 2) Do the MQLs correspond to the concentration of the lo                                     |  | X  | <u> </u>   | <del>                                     </del> |                 |  |
|          |                | 3) Are unadjusted MQLs included in the laboratory data r                                     |  | $\frac{\lambda}{X}$  | $\vdash$   |  |                 | $\vdash$   |
| R10      | OL             | OTHER PROBLEMS/ANOMALIES   | +  |  |  | 1000000  |                 |  |
|          |                | 1) Are all known problems/anomalies/special conditions r                                     | noted in this I RC and ER?   | X  |  | 10.000,00  | 140,000         | 1 4 4 4 5 7 5 6 7 5                              |
|          |                | 2) Were all necessary corrective actions performed for the                                   |  | X  | _  | -  |                 |  |
|          |                | 3) If requested, is the justification for elevated SQLs docu                                 |  | X  |  |  |                 |  |
| <b>—</b> | -              | -, requesters, as the justification for otovated by L8 does                                  |  |  |  | $\vdash$   | $\vdash$        | $\vdash$   |

<sup>1</sup> Items identified by the letter "R" should be included in the laboratory data package submitted in 0 the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

<sup>3</sup> NA = Not applicable;

<sup>4</sup> NR = Not Reviewed;

<sup>5</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

|                |          | Laboratory Review Check  | dist: Supporting Data                   |              |                 |                     |  |                     |
|----------------|----------|--|---|--------------|-----------------|---------------------|--|---------------------|
| Lab            | orato    | ory Name: e-lab Analytical, Inc LRC I  | Date: 08/14/2007                        |              |                 |                     |  |                     |
| Pro            | ject N   | Name: Silber Rd Labora   | atory Job Number: 0708117               |              |                 |                     |  |                     |
| Rev            | iewe     | r Name: Lora Terrill Prep E  | Satch Number(s): R53125, R53171, R53    | 3226         | , and           | R5352               | 21                                       |                     |
| # <sup>1</sup> | $A^2$    | Description  |   |              |                 | NA <sup>3</sup>     |  | ER#5                |
| S1             |          | INITIAL CALIBRATION (ICAL)   |   |              |                 |                     |  |                     |
| <u> </u>       | 01       | 1) Were response factors (RFs) and/or relative response factors limits?                                      | (RRFs) for each analyte within the QC   | X            |                 |                     | man and an and an analysis               |                     |
|                |          | 2) Were percent RSDs or correlation coefficient criteria met?  |   | X            |                 |                     |  |                     |
|                |          | 3) Was the number of standards recommended in the method us  | ed for all analytes?                    | X            |                 |                     |  |                     |
|                |          | 4) Were all points generated between the lowest and highest star   | ndard used to calculate the curve?      | X            |                 |                     |  |                     |
|                |          | 5) Are ICAL data available for all instruments used?   |   | X            |                 |                     |  |                     |
|                |          | 6) Has the initial calibration curve been verified using an approp   | oriate second source standard?          | X            |                 |                     |  |                     |
| S2             | OI       | INITIAL AND CONTINUING CALIBRATION VERIFIC   |   |              |                 |                     | 160 50 50 100                            | 8 33 0 52           |
|                |          | 1) Was the CCV analyzed at the method-required frequency?  |   | X            |                 |                     |  |                     |
|                |          | 2) Were percent differences for each analyte within the method-  | required OC limits?                     | X            |                 |                     |  |                     |
|                |          | 3) Was the ICAL curve verified for each analyte?   |   | X            |                 |                     |  | $\Box$              |
|                |          | 4) Was the absolute value of the analyte concentration in the inc  | organic CCB < MDL?                      |              |                 | Х                   |  |                     |
| S3             | O        | MASS SPECTRAL TUNING:  | , , , , , , , , , , , , , , , , , , ,   |              |                 |                     | 201000000000000000000000000000000000000  |                     |
|                |          | 1) Was the appropriate compound for the method used for tunin  | σ?                                      | X            |                 |                     | 105052-011500                            |                     |
|                |          | 2) Were ion abundance data within the method-required QC lim   |   | X            |                 |                     |  | +                   |
| S4             | 0        | INTERNAL STANDARDS (IS):   | ALO,                                    | Simil        |                 |                     |  |                     |
| -              |          | Were IS area counts and retention times within the method-requ   | ired OC limite?                         | X            |                 | 117.0-111.0         |  | 317003703           |
| S5             | OI       | RAW DATA (NELAC SECTION 1 APPENDIX A GLO   |   |              |                 | (50000000           | Second Second                            | NAME OF THE         |
| 55             | OI       | 1) Were the raw data (e.g., chromatograms, spectral data) review   |   | X            | 12000000        |                     | 2014110000                               | 2144411441          |
|                |          | 2) Were data associated with manual integrations flagged on the  |   | X            |                 |                     |  | +                   |
| S6             | _        | <del>/                                    </del>   | raw uata:                               | A.           | Annual Control  | X                   | en men men                               | X HAZARE            |
| 30             | <u> </u> | DUAL COLUMN CONFIRMATION   | 0.09                                    | General S    | 95.45R          | 37                  |  | 3 55555             |
| S7             | _        | Did dual column confirmation results meet the method-required  | QC7                                     | 20/0241333   | 000-4,000       | X                   |  | A POWER             |
| 3/             | 0        | TENTATIVELY IDENTIFIED COMPOUNDS (TICS):   |   | 107741793    |                 | T.                  |  | d market            |
| C D            | 7        | If TICs were requested, were the mass spectra and TIC data sub   | ject to appropriate checks?             | 2010/00/2010 | 10000000        | X                   | 50010001000                              | X 555 XX            |
| S8             | Ţ        | INTERFERENCE CHECK SAMPLE (ICS) RESULTS:   |   | \$100 EEEE   | A PERSONAL      | Addition Square     | Security Sec                             |                     |
| 50             | ·        | Were percent recoveries within method QC limits?   | No remise of of the land                | 100000       |                 | X                   | #2000 NOON INCOM                         | NEW COST            |
| S9             | 1        | SERIAL DILUTIONS, POST DIGESTION SPIKES, A   |   |              | 2000            |                     |  |                     |
| 010            | - X      | Were percent differences, recoveries, and the linearity within the   | e QC limits specified in the method?    |              | i kultukan kasa | X                   | constant New                             | S CONTRACTOR        |
| S10            | OI       | PROFICIENCY TEST REPORTS:  |   |              |                 | 2000                |  |                     |
| ~              |          | Are proficiency testing or inter-laboratory comparison results or  | ı file?                                 | X            |                 | a decorate decorate | 100                                      | \$24 Section 57 Aug |
| S11            | OI       | METHOD DETECTION LIMIT (MDL) STUDIES   |   | Mini         | GE AE           | (CE1050)            | <b>SELECTION</b>                         |                     |
|                |          | 1) Was a MDL study performed for each reported analyte?  |   | X            |                 |                     |  | 4                   |
|                |          | 2) Is the MDL either adjusted or supported by the analysis of De   | CSs?                                    | X            |                 |                     |  |                     |
| S12            | OI       | STANDARDS DOCUMENTATION  |   |              |                 |                     |  |                     |
|                |          | Are all standards used in the analyses NIST-traceable or obtaine   |   | X            |                 |                     |  |                     |
| S13            | OI       | COMPOUND/ANALYTE IDENTIFICATION PROCEDUR   |   | 450.00       | 112112          |                     |  | 31 23, 3423         |
|                |          | Are the procedures for compound/analyte identification docume  | nted?                                   | Χ            |                 |                     |  |                     |
| S14            | OI       | DEMONSTRATION OF ANALYST COMPETENCY (DOC   |   | 40000        |                 |                     | 2000 100 100 100 100 100 100 100 100 100 |                     |
|                |          | 1) Was DOC conducted consistent with NELAC 5C or ISO/IEC   |   | X            |                 |                     |  | ot                  |
|                |          | 2) Is documentation of the analyst's competency up-to-date and   | on file?                                | Χ            |                 | 114000              |  |                     |
| S15            | OI       | VERIFICATION/VALIDATION DOCUMENTATION FOR  |   |              |                 |                     |  | A 2004              |
|                |          | Are all the methods used to generate the data documented, ver (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)? | ified, and validated, where applicable, | Х            |                 |                     |  |                     |
| S16            | OI       | LABORATORY STANDARD OPERATING PROCEDURE  | ES (SOPS):                              |              |                 |                     |  |                     |
|                |          | Are laboratory SOPs current and on file for each method perform  |   | X            | 10.000000       |                     |  |                     |

Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

- NA = Not applicable.
- NR = Not Reviewed.
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

|                  | Laboratory I                     | Review Checklist: Exception Report                       |
|------------------|----------------------------------|--|
| Laborat          | ory Name: e-Lab Analytical, Inc. | LRC Date: 08/14/2007                                     |
| Project          | Name: Silber Rd                  | Laboratory Job Number: 0708117                           |
| Review           | er Name: Lora Terrill            | Prep Batch Number(s): R53125, R53171, R53226, and R53521 |
| ER# <sup>1</sup> | DESCRIPTION                      |  |
| 1                | Batch R53125 Volatiles MS/MSD is | an unrelated sample.                                     |
|                  | Batch R53171 Volatiles MS/MSD is | an unrelated sample.                                     |
|                  | Batch R53226 Volatiles MS/MSD is | an unrelated sample.                                     |

<sup>1</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

CLIENT:

ERM Southwest, Inc.

Project:

Silber Road Project

Work Order:

0708117

# Work Order Sample Summary

Date: August 20, 2007

| Lab Samp II | Client Sample ID | <u>Matrix</u> | <u>Tag Number</u> | Collection Date | Date Received   | <u>Hold</u> |
|-------------|------------------|---------------|-------------------|-----------------|-----------------|-------------|
| 0708117-01  | MW-132           | Water         |                   | 7/31/2007 09:30 | 8/3/2007 13:20  |             |
| 0708117-02  | MW-70            | Water         |                   | 7/31/2007 16:35 | 8/3/2007 13:20  |             |
| 0708117-03  | MW-138           | Water         |                   | 8/1/2007 09:20  | 8/3/2007 13:20  |             |
| 0708117-04  | MW-146           | Water         |                   | 8/1/2007 10:35  | 8/3/2007 13:20  |             |
| 0708117-05  | MW-78            | Water         |                   | 8/1/2007 11:30  | 8/3/2007 13:20  |             |
| 0708117-06  | MW-135           | Water         |                   | 8/1/2007 12:25  | 8/3/2007 13:20  |             |
| 0708117-07  | MW-136           | Water         |                   | 8/1/2007 13:40  | 8/3/2007 13:20  |             |
| 0708117-08  | MW-137           | Water         |                   | 8/1/2007 14:45  | 8/3/2007 13:20  |             |
| 0708117-09  | MW-140           | Water         |                   | 8/1/2007 15:45  | 8/3/2007 13:20  |             |
| 0708117-10  | FB-080107        | Water         |                   | 8/1/2007 17:10  | 8/3/2007 13:20  |             |
| 0708117-11  | Trip Blank       | Water         |                   | 8/1/2007 17:10  | 8/3/2007 13:20  |             |
| 0708117-12  | MW-93            | Water         |                   | 8/6/2007 09:15  | 8/6/2007 14:30  |             |
| 0708117-13  | MW-125           | Water         |                   | 8/6/2007 12:10  | 8/6/2007 14:30  |             |
| 0708117-14  | Trip Blank 1301  | Water         |                   | 8/6/2007 12:10  | 8/6/2007 14:30  |             |
| 0708117-15  | MW-96            | Water         |                   | 8/15/2007 12:42 | 8/15/2007 17:00 |             |
|             |                  |               |                   |                 |                 |             |

**CLIENT:** 

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-01

Date: August 20, 2007

Client Sample ID: MW-132

**Collection Date:** 7/31/2007 9:30:00 AM

| Analyses                    | Result | Qual | SDL               | MQL    | Units | Dilution<br>Factor | Date Analyzed      |
|-----------------------------|--------|------|-------------------|--------|-------|--------------------|--------------------|
| TCL VOLATILE ORGANICS       |        | Meth | od: <b>SW8260</b> |        |       |                    | Analyst: <b>PC</b> |
| 1,1-Dichloroethane          | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| 1,1-Dichloroethene          | U      |      | 0.00060           | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| 1,2-Dichloroethane          | · U    |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| cis-1,2-Dichloroethene      | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| Tetrachloroethene           | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| Trichloroethene             | U      |      | 0.00070           | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| Vinyl chloride              | U      |      | 0.00060           | 0.0020 | mg/L  | 1                  | 8/7/2007           |
| Surr: 1,2-Dichloroethane-d4 | 103    |      |                   | 70-125 | %REC  | 1                  | 8/7/2007           |
| Surr: 4-Bromofluorobenzene  | 104    |      |                   | 72-125 | %REC  | 1                  | 8/7/2007           |
| Surr: Dibromofluoromethane  | 106    |      |                   | 71-125 | %REC  | 1                  | 8/7/2007           |
| Surr: Toluene-d8            | 104    |      |                   | 75-125 | %REC  | 1                  | 8/7/2007           |

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-02

Date: August 20, 2007

Client Sample ID: MW-70

Collection Date: 7/31/2007 4:35:00 PM

| Analyses                    | Result  | Qual | SDL                | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|---------|------|--------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |         | Meth | nod: <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | 0.010   |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| 1,1-Dichloroethene          | 0.00088 | J    | 0.00060            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| 1,2-Dichloroethane          | U       |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| cis-1,2-Dichloroethene      | 0.018   |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Tetrachloroethene           | 0.00069 | J    | 0.00050            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Trichloroethene             | 0.0058  |      | 0.00070            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Vinyl chloride              | 0.0015  | J    | 0.00060            | 0.0020 | mg/L  | 1                  | 8/7/2007      |
| Surr: 1,2-Dichloroethane-d4 | 100     |      |                    | 70-125 | %REC  | 1                  | 8/7/2007      |
| Surr: 4-Bromofluorobenzene  | 101     | -    |                    | 72-125 | %REC  | 1                  | 8/7/2007      |
| Surr: Dibromofluoromethane  | 102     |      |                    | 71-125 | %REC  | 1                  | 8/7/2007      |
| Surr: Toluene-d8            | 103     |      |                    | 75-125 | %REC  | 1                  | 8/7/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-03

Date: August 20, 2007

Client Sample ID: MW-138

**Collection Date:** 8/1/2007 9:20:00 AM

| Analyses                    | Result | Qual      | SDL   | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|--------|-----------|-------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |        | Method: S | W8260 |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | U      | 0.        | 00050 | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| 1,1-Dichloroethene          | U      | 0.        | 00060 | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| 1,2-Dichloroethane          | U      | 0.        | 00050 | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| cis-1,2-Dichloroethene      | U      | 0.        | 00050 | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Tetrachloroethene           | U      | 0.        | 00050 | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Trichloroethene             | U      | 0.        | 00070 | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Vinyl chloride              | Ù      | 0.        | 00060 | 0.0020 | mg/L  | 1                  | 8/7/2007      |
| Surr: 1,2-Dichloroethane-d4 | 102    |           |       | 70-125 | %REC  | 1                  | 8/7/2007      |
| Surr: 4-Bromofluorobenzene  | 103    |           |       | 72-125 | %REC  | 1                  | 8/7/2007      |
| Surr: Dibromofluoromethane  | 104    |           |       | 71-125 | %REC  | 1                  | 8/7/2007      |
| Surr: Toluene-d8            | 103    |           |       | 75-125 | %REC  | 1                  | 8/7/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-04

Date: August 20, 2007

Client Sample ID: MW-146

Collection Date: 8/1/2007 10:35:00 AM

| Analyses                    | Result ( | Qual SDL       | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|----------|----------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |          | Method: SW8260 |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | U        | 0.00050        | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| 1,1-Dichloroethene          | U        | 0.00060        | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| 1,2-Dichloroethane          | U        | 0.00050        | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| cis-1,2-Dichloroethene      | U        | 0.00050        | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Tetrachloroethene           | U        | 0.00050        | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Trichloroethene             | U        | 0.00070        | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Vinyl chloride              | U        | 0.00060        | 0.0020 | mg/L  | 1                  | 8/7/2007      |
| Surr: 1,2-Dichloroethane-d4 | 99.5     |                | 70-125 | %REC  | 1                  | 8/7/2007      |
| Surr: 4-Bromofluorobenzene  | 103      |                | 72-125 | %REC  | 1                  | 8/7/2007      |
| Surr: Dibromofluoromethane  | 104      |                | 71-125 | %REC  | 1                  | 8/7/2007      |
| Surr: Toluene-d8            | 103      |                | 75-125 | %REC  | 1                  | 8/7/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-05

Date: August 20, 2007

Client Sample ID: MW-78

Collection Date: 8/1/2007 11:30:00 AM

| Analyses                    | Result | Qual | SDL                | MQL             | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|--------|------|--------------------|-----------------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |        | Meth | nod: <b>SW8260</b> |                 |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | 0.011  |      | 0.00050            | 0.0050          | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | 0.26   |      | 0.0060             | 0.050           | mg/L  | 10                 | 8/8/2007      |
| 1,2-Dichloroethane          | U      |      | 0.00050            | 0.0050          | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichloroethene      | 0.0016 | J    | 0.00050            | 0.0050          | mg/L  | 1                  | 8/8/2007      |
| Tetrachloroethene           | Ŭ      |      | 0.00050            | 0.0050          | mg/L  | 1                  | 8/8/2007      |
| Trichloroethene             | U      |      | 0.00070            | 0.0050          | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | U      |      | 0.00060            | 0.0020          | mg/L  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 116    |      |                    | 70-125          | %REC  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 115    |      |                    | 70-125          | %REC  | 10                 | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 95.8   |      |                    | 72-125          | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 92.7   |      |                    | 72-125          | %REC  | 10                 | 8/8/2007      |
| Surr: Dibromofluoromethane  | 115    |      |                    | 71-125          | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 114    |      |                    | 71-125          | %REC  | 10                 | 8/8/2007      |
| Surr: Toluene-d8            | 103    |      |                    | 7 <b>5</b> -125 | %REC  | 1                  | 8/8/2007      |
| Surr: Toluene-d8            | 101    |      |                    | 75-125          | %REC  | 10                 | 8/8/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-06

Date: August 20, 2007

Client Sample ID: MW-135

Collection Date: 8/1/2007 12:25:00 PM

| Analyses                    | Result  | Qual | SDL                | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|---------|------|--------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |         | Metl | nod: <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | 0.00056 | J    | 0.00050            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| 1,1-Dichloroethene          | 0.0044  | J    | 0.00060            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| 1,2-Dichloroethane          | U       |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| cis-1,2-Dichloroethene      | 0.00085 | J    | 0.00050            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Tetrachloroethene           | 0.0062  |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Trichloroethene             | U       |      | 0.00070            | 0.0050 | mg/L  | 1                  | 8/7/2007      |
| Vinyl chloride              | U       |      | 0.00060            | 0.0020 | mg/L  | 1                  | 8/7/2007      |
| Surr: 1,2-Dichloroethane-d4 | 99.5    |      |                    | 70-125 | %REC  | 1                  | 8/7/2007      |
| Surr: 4-Bromofluorobenzene  | 104     |      |                    | 72-125 | %REC  | 1                  | 8/7/2007      |
| Surr: Dibromofluoromethane  | 105     |      |                    | 71-125 | %REC  | 1                  | 8/7/2007      |
| Surr: Toluene-d8            | 106     |      |                    | 75-125 | %REC  | 1                  | 8/7/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-07

Date: August 20, 2007

Client Sample ID: MW-136

Collection Date: 8/1/2007 1:40:00 PM

| Analyses                    | Result  | Qual | SDL         | MQL    | Units | Dilution<br>Factor | Date Analyzed      |
|-----------------------------|---------|------|-------------|--------|-------|--------------------|--------------------|
| TCL VOLATILE ORGANICS       |         | Meth | nod: SW8260 |        |       |                    | Analyst: <b>PC</b> |
| 1,1-Dichloroethane          | 0.00062 | J    | 0.00050     | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| 1,1-Dichloroethene          | 0.011   |      | 0.00060     | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| 1,2-Dichloroethane          | U       |      | 0.00050     | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| cis-1,2-Dichloroethene      | 0.00057 | J    | 0.00050     | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| Tetrachloroethene           | 0.0035  | J    | 0.00050     | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| Trichloroethene             | U       |      | 0.00070     | 0.0050 | mg/L  | 1                  | 8/7/2007           |
| Vinyl chloride              | U       |      | 0.00060     | 0.0020 | mg/L  | 1                  | 8/7/2007           |
| Surr: 1,2-Dichloroethane-d4 | 101     |      |             | 70-125 | %REC  | 1                  | 8/7/2007           |
| Surr: 4-Bromofluorobenzene  | 103     |      |             | 72-125 | %REC  | 1                  | 8/7/2007           |
| Surr: Dibromofluoromethane  | 104     |      |             | 71-125 | %REC  | 1                  | 8/7/2007           |
| Surr: Toluene-d8            | 104     |      |             | 75-125 | %REC  | 1                  | 8/7/2007           |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

**CLIENT:** 

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-08

Date: August 20, 2007

Client Sample ID: MW-137

**Collection Date:** 8/1/2007 2:45:00 PM

| Analyses                    | Result  | Qual | SDL                | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|---------|------|--------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |         | Meth | nod: <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | 0.034   |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | 0.062   |      | 0.00060            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,2-Dichloroethane          | U       |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichloroethene      | 0.0019  | J    | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Tetrachloroethene           | 0.00088 | J    | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Trichloroethene             | 0.00080 | J    | 0.00070            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | 0.0069  |      | 0.00060            | 0.0020 | mg/L  | 4                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 114     |      |                    | 70-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 94.4    |      |                    | 72-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 115     |      |                    | 71-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Toluene-d8            | 102     |      |                    | 75-125 | %REC  | 1                  | 8/8/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-09

Date: August 20, 2007

Client Sample ID: MW-140

Collection Date: 8/1/2007 3:45:00 PM

| Analyses                    | Result | Qual | SDL                | SDL MQL Uni |      | Dilution<br>Factor | Date Analyzed |  |
|-----------------------------|--------|------|--------------------|-------------|------|--------------------|---------------|--|
| TCL VOLATILE ORGANICS       |        | Meth | lod: <b>SW8260</b> |             |      |                    | Analyst: PC   |  |
| 1,1-Dichloroethane          | 0.0055 |      | 0.00050            | 0.0050      | mg/L | 1                  | 8/8/2007      |  |
| 1,1-Dichloroethene          | 0.23   |      | 0.0060             | 0.050       | mg/L | 10                 | 8/9/2007      |  |
| 1,2-Dichloroethane          | U      |      | 0.00050            | 0.0050      | mg/L | 1                  | 8/8/2007      |  |
| cis-1,2-Dichloroethene      | U      |      | 0.00050            | 0.0050      | mg/L | 1                  | 8/8/2007      |  |
| Tetrachloroethene           | U      |      | 0.00050            | 0.0050      | mg/L | 1                  | 8/8/2007      |  |
| Trichloroethene             | U      |      | 0.00070            | 0.0050      | mg/L | 1                  | 8/8/2007      |  |
| Vinyl chloride              | U      |      | 0.00060            | 0.0020      | mg/L | 1                  | 8/8/2007      |  |
| Surr: 1,2-Dichloroethane-d4 | 116    |      |                    | 70-125      | %REC | 1                  | 8/8/2007      |  |
| Surr: 1,2-Dichloroethane-d4 | 113    |      |                    | 70-125      | %REC | 10                 | 8/9/2007      |  |
| Surr: 4-Bromofluorobenzene  | 94.3   |      |                    | 72-125      | %REC | 1                  | 8/8/2007      |  |
| Surr: 4-Bromofluorobenzene  | 90.7   |      |                    | 72-125      | %REC | 10                 | 8/9/2007      |  |
| Surr: Dibromofluoromethane  | 115    |      |                    | 71-125      | %REC | 1                  | 8/8/2007      |  |
| Surr: Dibromofluoromethane  | 112    |      |                    | 71-125      | %REC | 10                 | 8/9/2007      |  |
| Surr: Toluene-d8            | 102    |      |                    | 75-125      | %REC | 1                  | 8/8/2007      |  |
| Surr: Toluene-d8            | 98.1   |      |                    | 75-125      | %REC | 10                 | 8/9/2007      |  |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-10

Date: August 20, 2007

Client Sample ID: FB-080107

Collection Date: 8/1/2007 5:10:00 PM

| Analyses                    | Result | Qual | SDL        | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|--------|------|------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |        | Meth | od: SW8260 |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | U      |      | 0.00050    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | · U    |      | 0.00060    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,2-Dichloroethane          | U      |      | 0.00050    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichloroethene      | U      |      | 0.00050    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Tetrachloroethene           | U      |      | 0.00050    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Trichloroethene             | U      |      | 0.00070    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | U      |      | 0.00060    | 0.0020 | mg/L  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 115    |      |            | 70-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 92.8   |      |            | 72-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 114    |      |            | 71-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Toluene-d8            | 101    |      |            | 75-125 | %REC  | 1                  | 8/8/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

**CLIENT:** 

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-12

Date: August 20, 2007

Client Sample ID: MW-93

Collection Date: 8/6/2007 9:15:00 AM

| Analyses                    | Result  | Qual | SDL                | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|---------|------|--------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |         | Meti | hod: <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | U       |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | U       |      | 0.00060            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,2-Dichloroethane          | U       |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichloroethene      | 0.00073 | j    | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Tetrachloroethene           | 0.080   |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Trichloroethene             | Ŭ       |      | 0.00070            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | U       |      | 0.00060            | 0.0020 | mg/L  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 117     |      |                    | 70-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 92.3    |      |                    | 72-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 112     |      |                    | 71-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Toluene-d8            | 100     |      |                    | 75-125 | %REC  | . 1                | 8/8/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-13

Date: August 20, 2007

Client Sample ID: MW-125

**Collection Date:** 8/6/2007 12:10:00 PM

| Analyses                    | Result ( | Qual SDL       | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|----------|----------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |          | Method: SW8260 |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | U        | 0.00050        | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | U        | 0.00060        | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,2-Dichloroethane          | U        | 0.00050        | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichloroethene      | U        | 0.00050        | 0.0050 | mg/L  | . 1                | 8/8/2007      |
| Tetrachloroethene           | 0.033    | 0.00050        | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Trichloroethene             | U        | 0.00070        | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | U        | 0.00060        | 0.0020 | mg/L  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 116      |                | 70-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 91.5     |                | 72-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 114      |                | 71-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Toluene-d8            | 100      |                | 75-125 | %REC  | 1                  | 8/8/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

**CLIENT:** 

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Lab ID:

0708117-15

Date: August 20, 2007

Client Sample ID: MW-96

Collection Date: 8/15/2007 12:42:00 PM

| Analyses                    | Result       | Qual | SDL                | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|--------------|------|--------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |              | Meth | nod; <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | 0.0012       | J    | 0.00050            | 0.0050 | mg/L  | 1                  | 8/17/2007     |
| 1,1-Dichloroethene          | 0.018        |      | 0.00060            | 0.0050 | mg/L  | 1                  | 8/17/2007     |
| 1,2-Dichloroethane          | U            |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/17/2007     |
| cis-1,2-Dichloroethene      | U            |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/17/2007     |
| Tetrachloroethene           | U            |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/17/2007     |
| Trichloroethene             | U            |      | 0.00070            | 0.0050 | mg/L  | 1                  | 8/17/2007     |
| Vinyl chloride              | U            |      | 0.00060            | 0.0020 | mg/L  | 1                  | 8/17/2007     |
| Surr: 1,2-Dichloroethane-d4 | 99.9         |      |                    | 70-125 | %REC  | 1                  | 8/17/2007     |
| Surr: 4-Bromofluorobenzene  | 90.3         |      |                    | 72-125 | %REC  | 1                  | 8/17/2007     |
| Surr: Dibromofluoromethane  | 98. <i>4</i> |      |                    | 71-125 | %REC  | 1                  | 8/17/2007     |
| Surr: Toluene-d8            | 9 <i>5.4</i> |      |                    | 75-125 | %REC  | 1                  | 8/17/2007     |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

Date: Aug 20, 2007

**METHOD DETECTION /** 

**REPORTING LIMITS** 

Test Code:

8260\_TCL\_W

Test Number: Test Name: SW8260

TCL Volatile Organics

Matrix:

Aqueous

.

| Matrix | : Aqueous Units: mg/L       |            |        |                |
|--------|-----------------------------|------------|--------|----------------|
| Туре   | Analyte                     | CAS        | MDL    | Unadjusted MQL |
| A      | 1,1-Dichloroethane          | 75-34-3    | 0.0005 | 0.005          |
| A      | 1,1-Dichloroethene          | 75-35-4    | 0.0006 | 0.005          |
| Α      | 1,2-Dichloroethane          | 107-06-2   | 0.0005 | 0.005          |
| Α      | cis-1,2-Dichloroethene      | 156-59-2   | 0.0005 | 0.005          |
| Α      | Tetrachloroethene           | 127-18-4   | 0.0005 | 0.005          |
| Α      | Trichloroethene             | 79-01-6    | 0.0007 | 0.005          |
| Α      | Vinyl chloride              | 75-01-4    | 0.0006 | 0.002          |
| S      | Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 0      | 0              |
| S      | Surr: 4-Bromofluorobenzene  | 460-00-4   | 0      | . 0            |
| S      | Surr: Dibromofluoromethane  | 1868-53-7  | 0      | 0              |
| S      | Surr: Toluene-d8            | 2037-26-5  | 0      | 0              |
|        |                             |            |        |                |

CLIENT:

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

Date: Aug 20 2007

| Batch ID: R53125 Instrume   | nt ID VOA1 |                   | Metho   | d: <b>SW82</b> 6 | 0   |                |            |  |            |                   |           |
|-----------------------------|------------|-------------------|---------|------------------|-----|----------------|------------|--|------------|-------------------|-----------|
| MBLK Sample ID: VBLKW-08    | 30707      |                   |         |                  | -   | U              | nits: µg/L |  | Analysis D | ate: <b>08/07</b> | /07 14:40 |
| Client ID:                  | Run I      | D: <b>VOA1_</b>   | 070807A |                  | Sec | No: <b>118</b> | 5889       | Prep Date:                             |            | DF: 1             |           |
|                             |            |                   |         | SPK Ref          |     |                | Control    | RPD Ref                                |            | RPD               |           |
| Analyte                     | Result     | MQL               | SPK Val | Value            |     | %REC           | Limit      | Value                                  | %RPD       | Limit             | Qual      |
| 1,1-Dichìoroethane          | U          | 5.0               |         |                  |     |                |            |  |            |                   |           |
| 1,1-Dichloroethene          | U          | 5.0               |         |                  |     |                |            |  |            |                   | 35-04     |
| 1,2-Dichioroethane          | U          | 5.0               |         |                  |     |                |            |  |            |                   |           |
| cis-1,2-Dichloroethene      | U          | 5.0               |         |                  |     |                |            |  |            |                   | ,         |
| Tetrachloroethene .         | U          | 5.0               |         |                  |     |                |            |  |            |                   |           |
| Trichloroethene             | U          | 5.0               |         |                  |     |                |            |  |            |                   |           |
| Vinyl chloride              | U          | 2.0               |         |                  |     |                |            |  |            |                   |           |
| Surr: 1,2-Dichloroethane-d4 | 51.95      | 5.0               | 50      |                  | 0   | 104            | 70-125     |  | 0          |                   |           |
| Surr: 4-Bromofluorobenzene  | 52.26      | 5.0               | 50      |                  | 0   | 105            | 72-125     |  | 0          |                   |           |
| Surr: Dibromofluoromethane  | 52.22      | 5.0               | 50      |                  | 0   | 104            | 71-125     |  | 0          |                   | 770.27    |
| Surr: Toluene-d8            | 51.51      | 5.0               | 50      |                  | 0   | 103            | 75-125     |  | 0          |                   |           |
| LCS Sample ID: VLCSW-08     | 30707      |                   |         |                  |     | U              | nits: µg/L |  | Analysis D | ate: 08/07        | /07 13:23 |
| Client ID:                  | Run I      | D: <b>VOA1_</b> I | 070807A |                  | Sec | No: 118        | 5888       | Prep Date:                             |            | DF: 1             |           |
|                             |            |                   |         | SPK Ref          |     |                | Control    | RPD Ref                                |            | RPD               |           |
| Analyte                     | Result     | MQL               | SPK Val | Value            |     | %REC           | Limit      | Value                                  | %RPD       | Limit             | Qual      |
| 1,1-Dichloroethane          | 51.83      | 5.0               | 50      |                  | 0   | 104            | 76-120     |  | 0          |                   |           |
| 1,1-Dichloroethene          | 51.57      | 5.0               | 50      |                  | 0   | 103            | 73-124     | ************************************** | 0          |                   |           |
| 1,2-Dichloroethane          | 50.88      | 5.0               | 50      |                  | 0   | 102            | 78-120     |  | 0          |                   |           |
| cis-1,2-Dichloroethene      | 49.67      | 5.0               | 50      |                  | 0   | 99.3           | 78-120     |  | 0          |                   |           |
| Tetrachloroethene           | 51.34      | 5.0               | 50      |                  | 0   | 103            | 79-120     |  | 0          |                   |           |
| Trichloroethene             | 49.65      | 5.0               | 50      |                  | 0   | 99.3           | 80-120     |  | 0          |                   |           |
| Vinyl chloride              | 48.74      | 2.0               | 50      |                  | 0   | 97.5           | 74-122     |  | 0          |                   |           |
| Surr: 1,2-Dichloroethane-d4 | 51.12      | 5.0               | 50      |                  | 0   | 102            | 70-125     |  | 0          |                   |           |
| Surr: 4-Bromofluorobenzene  | 53.01      | 5.0               | 50      |                  | 0   | 106            | 72-125     |  | 0          |                   |           |
| Surr: Dibromofluoromethane  | 52.01      | 5.0               | 50      |                  | 0   | 104            | 71-125     |  | 0          |                   |           |
| Surr: Toluene-d8            | 53.23      | 5.0               | 50      |                  | 0   | 106            | 75-125     |  | 0          |                   |           |

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

| Batch ID: <b>R53125</b>    | nstrument ID VOA1         |                         | Method:                                   | SW826            | 30     |                  |                  |   |          |      |              |          |
|----------------------------|---------------------------|-------------------------|---|------------------|--------|------------------|------------------|---|----------|------|--------------|----------|
| MS Sample ID: 07           | 08145-01AMS               | HALL STONE OF THE STONE | 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |                  | erine. | U                | nits: μg/L       | *************************************** | Analysis | Date | : 08/07/     | 07 16:22 |
| Client ID:                 | Run ID:                   | VOA1_                   | _070807A                                  |                  | Se     | qNo: <b>118</b>  | 5893             | Prep Date:                              |          | D    | F: <b>1</b>  |          |
| Analyte                    | Result                    | MQL                     | SPK Val                                   | SPK Ref<br>Value |        | %REC             | Control<br>Limit | RPD Ref<br>Value                        | %RPI     |      | RPD<br>Limit | Qual     |
| 1,1-Dichloroethane         | 50.95                     | 5.0                     | 50  |                  | 0      | 102              | 76-120           |   | 0        |      |              |          |
| 1,1-Dichloroethene         | 30.92                     | 5.0                     | 50  |                  | 0      | 61.8             | 73-124           |   | 0        |      |              | S        |
| 1,2-Dichloroethane         | 52.92                     | 5.0                     | 50  |                  | 0      | 106              | 78-120           |   | 0        |      |              |          |
| cis-1,2-Dichloroethene     | 50.6                      | 5.0                     | 50  |                  | 0      | 101              | 78-120           |   | 0        |      |              |          |
| Tetrachioroethene          | 48.99                     | 5.0                     | 50  |                  | 0      | 98               | 79-120           |   | 0        |      |              |          |
| Trichloroethene            | 48.76                     | 5.0                     | 50  |                  | 0      | 97.5             | 80-120           |   | 0        |      |              |          |
| Vinyl chloride             | 45.93                     | 2.0                     | 50  |                  | 0      | 91.9             | 74-122           |   | 0        |      |              |          |
| Surr: 1,2-Dichloroethane-d | 4 52.16                   | 5.0                     | 50  |                  | 0      | 104              | 70-125           |   | 0        |      |              |          |
| Surr: 4-Bromofluorobenzer  | ne 52.14                  | 5.0                     | 50  |                  | 0      | 104              | 72-125           |   | 0        |      |              |          |
| Surr: Dibromofluoromethar  | ne 52.03                  | 5.0                     | 50  |                  | 0      | 104              | 71-125           |   | 0        |      |              |          |
| Surr: Toluene-d8           | 52.49                     | 5.0                     | 50  |                  | 0      | 105              | 75-125           |   | 0        |      |              |          |
| MSD Sample ID: 07          | 08145-01AMSD              |                         |   |                  |        | U                | nits: μg/L       |   | Analysis | Date | : 08/07/     | 07 16:48 |
| Client ID:                 | Run ID:                   | VOA1_                   | 070807A                                   |                  | Se     | qNo: <b>118</b>  | 5895             | Prep Date:                              |          | D    | F: <b>1</b>  |          |
|                            |                           |                         |   | SPK Ref          |        |                  | Cantual          | RPD Ref                                 |          | c    | RPD          |          |
| Analyte                    | Result                    | MQL                     | SPK Val                                   | Value            |        | %REC             | Control<br>Limit | Value                                   | %RPI     | 1    | _imit        | Qual     |
| 1,1-Dichloroethane         | 52.44                     | 5.0                     | 50  |                  | 0      | 105              | 76-120           | 50.9                                    | 5 2      | .88  | 20           |          |
| 1,1-Dichloroethene         | 30.67                     | 5.0                     | 50  |                  | 0      | 61.3             | 73-124           | 30.9                                    | 2 0.8    | 324  | 20           | s        |
| 1,2-Dichloroethane         | 53.24                     | 5.0                     | 50  |                  | 0      | 106              | 78-120           | 52.9                                    | 2 0.6    | 613  | 20           |          |
| cis-1,2-Dichloroethene     | 52.19                     | 5.0                     | 50  |                  | 0      | 104              | 78-120           | 50.                                     | 6 3      | .08  | 20           |          |
| Tetrachloroethene          | 48.4                      | 5.0                     | 50  |                  | 0      | 96.8             | 79-120           | 48.9                                    | 9 1      | .22  | 20           |          |
| Trichloroethene            | 49.78                     | 5.0                     | 50  |                  | 0      | 99.6             | 80-120           | 48.7                                    | 6 2      | .07  | 20           |          |
| Vinyl chloride             | 44.97                     | 2.0                     | 50  |                  | 0      | 89.9             | 74-122           | 45.9                                    | 3 2      | .12  | 20           |          |
| Surr: 1,2-Dichloroethane-d | 4 52.4                    | 5.0                     | 50  |                  | 0      | 105              | 70-125           | 52.1                                    | 6 0.4    | 154  | 20           |          |
| Surr: 4-Bromofluorobenzer  | ne 52.35                  | 5.0                     | 50  |                  | 0      | 105              | 72-125           | 52.1                                    | 4 0.3    | 391  | 20           | *****    |
| Surr: Dibromofluoromethar  | ne 53.51                  | 5.0                     | 50  |                  | 0      | 107              | 71-125           | 52.0                                    | 3 2      | .81  | 20           |          |
| Surr: Toluene-d8           | 51.5                      | 5.0                     | 50  |                  | 0      | 103              | 75-125           | 52.4                                    | 9        | 1.9  | 20           |          |
| The following samples were | e analyzed in this batch: |                         | 708117-01A<br>708117-04A                  |                  |        | 17-02A<br>17-06A |                  | 08117-03A<br>08117-07A                  |          |      |              |          |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

Trichloroethene

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Vinyl chloride

0708117

Project:

Silber Road Project

46.27

44.4

50.1

48.93

52.61

50.33

5.0

2.0

5.0

5.0

5.0

5.0

50

50

50

50

50

50

0

0

0

0

0

0

92.5

88.8

100

97.9

105

101

80-120

74-122

70-125

72-125

71-125

75-125

Batch ID: R53171 Instrument ID VOA2 Method: SW8260 MBLK Sample ID: VBLKW-080807 Units: µg/L Analysis Date: 08/08/07 11:46 Client ID: Run ID: VOA2\_070808B SeqNo: 1186514 Prep Date: DF: 1 RPD SPK Ref RPD Ref Control Value Limit Value Limit Analyte Result MQL. SPK Val %REC %RPD Qual U 1,1-Dichloroethane 5.0 1,1-Dichloroethene U 5.0 1,2-Dichloroethane Ų 5.0 U cis-1,2-Dichloroethene 5.0 Tetrachloroethene U 5.0 Trichloroethene U 5.0 U Vinyl chloride 2.0 Surr: 1,2-Dichloroethane-d4 54.39 5.0 50 0 70-125 0 109 Surr: 4-Bromofluorobenzene 46.16 5.0 50 0 92.3 72-125 0 0 Surr: Dibromofluoromethane 5.0 50 71-125 0 55.93 112 Surr: Toluene-d8 50.21 5.0 50 0 0 100 75-125 LCS Sample ID: VLCSW-080807 Units: µg/L Analysis Date: 08/08/07 10:58 Client ID: Run ID: VOA2\_070808B SeqNo: 1186513 Prep Date: DF: 1 RPD SPK Ref Control RPD Ref Limit Value Value Limit MQL SPK Val %REC %RPD Qual Analyte Result 48.21 1,1-Dichloroethane 5.0 50 0 96.4 76-120 0 1,1-Dichloroethene 45.93 5.0 50 0 91.9 73-124 0 1,2-Dichloroethane 47.56 50 0 5.0 95.1 78-120 0 cis-1,2-Dichloroethene 54.29 5.0 50 0 109 78-120 0 Tetrachloroethene 42,92 5.0 50 0 85.8 79-120 0

| ND - Not Detected at the Reporting Limit | ND - Not | Detected | at the | Reporting | Limit |
|--|----------|----------|--------|-----------|-------|
|--|----------|----------|--------|-----------|-------|

J - Analyte detected below quantitation limits

QC BATCH REPORT

0

0

0

0

0

0

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

| Batch ID: R53171 Insti       | rument ID VOA2         |   | Metho                    | d: <b>SWB26</b> 0                                    | 0              |                  |                  |                              |               |                   |          |
|------------------------------|------------------------|---|--------------------------|--|----------------|------------------|------------------|------------------------------|---------------|-------------------|----------|
| MS Sample ID: 07080          | 072-01AMS              | والمواقع والمواقع المارية والمواقع المارية والمواقع المارية |                          | again at galain ain ga ga a maing at ag mag Againnea |                | Ų                | nits: µg/L       | Manager of the second second | Analysis Da   | ate: <b>08/08</b> | 07 14:36 |
| Client ID:                   | Run ID                 | : VOA2_   | 070808B                  | ;  | Sec            | No: <b>118</b>   | 6516             | Prep Date:                   |               | DF: 20            |          |
| Analyte                      | Result                 | MQL   | SPK Val                  | SPK Ref<br>Value                                     |                | %REC             | Control<br>Limit | RPD Ref<br>Value             | %RPD          | RPD<br>Limit      | Qual     |
| 1,1-Dichloroethane           | 936.9                  | 100   | 1000                     |  | 0              | 93.7             | 76-120           | C                            | 1             |                   |          |
| 1,1-Dichloroethene           | 784                    | 100   | 1000                     | (  | 0              | 78.4             | 73-124           | C                            | 1             |                   |          |
| 1,2-Dichloroethane           | 970.3                  | 100   | 1000                     | (  | 0              | 97               | 78-120           | C                            | )             |                   |          |
| cis-1,2-Dichloroethene       | 1050                   | 100   | 1000                     |  | 0              | 105              | 78-120           | C                            | 1             |                   |          |
| Tetrachioroethene            | 758.4                  | 100   | 1000                     | (  | 0              | 75.8             | 79-120           | C                            | 1             |                   | S        |
| Trichloroethene              | 847.7                  | 100   | 1000                     | (  | 0              | 84.8             | 80-120           | C                            | 1             |                   |          |
| Vinyl chloride               | 739.8                  | 40  | 1000                     |  | 0              | 74               | 74-122           | C                            | 1             |                   | S        |
| Surr: 1,2-Dichloroethane-d4  | 1067                   | 100   | 1000                     | (  | 0              | 107              | 70-125           | C                            | )             |                   |          |
| Surr: 4-Bromofluorobenzene   | 1026                   | 100   | 1000                     | (  | 0              | 103              | 72-125           | C                            | )             |                   |          |
| Surr: Dibromofluoromethane   | 1081                   | 100   | 1000                     |  | 0              | 108              | 71-125           | C                            | )             |                   |          |
| Surr: Toluene-d8             | 1029                   | 100   | 1000                     | (  | 0              | 103              | 75-125           | C                            | )             |                   |          |
| MSD Sample ID: 07080         | 072-01AMSD             |   |                          |  |                | U                | nits: µg/L       |                              | Analysis Da   | ate: <b>08/08</b> | 07 15:00 |
| Client ID:                   | Run ID.                | VOA2_   | 070808B                  | ;  | SeqNo: 1186517 |                  |                  | Prep Date:                   | DF: <b>20</b> |                   |          |
|                              |                        |   |                          | SPK Ref  |                |                  | Control          | RPD Ref                      |               | RPD               |          |
| Analyte                      | Result                 | MQL   | SPK Val                  | Value  |                | %REC             | Limit            | Value                        | %RPD          | Limit             | Qual     |
| 1,1-Dichloroethane           | 918                    | 100   | 1000                     | (  | 0              | 91.8             | 76-120           | 936.9                        | 2.05          | 20                |          |
| 1,1-Dichloroethene           | 786.1                  | 100   | 1000                     | (  | 0              | 78.6             | 73-124           | 784                          | 0.258         | 20                |          |
| 1,2-Dichloroethane           | 975                    | 100   | 1000                     | (  | 0              | 97.5             | 78-120           | 970.3                        | 0.485         | 20                |          |
| cis-1,2-Dichloroethene       | 1039                   | 100   | 1000                     |  | 0              | 104              | 78-120           | 1050                         | 0.997         | 20                |          |
| Tetrachloroethene            | 732.2                  | 100   | 1000                     |  | 0              | 73.2             | 79-120           | 758.4                        | 3.51          | 20                | S        |
| Trichloroethene              | 845.5                  | 100   | 1000                     |  | 0              | 84.5             | 80-120           | 847.7                        | 0.26          | 20                |          |
| Vinyl chloride               | 754.5                  | 40  | 1000                     | (  | 0              | 75.4             | 74-122           | 739.8                        | 1.97          | 20                |          |
| Surr: 1,2-Dichloroethane-d4  | 1040                   | 100   | 1000                     |  | 0              | 104              | 70-125           | 1067                         | 2.55          | 20                |          |
| Surr: 4-Bromofluorobenzene   | 987.7                  | 100   | 1000                     |  | 0              | 98.8             | 72-125           | 1026                         | 3.76          | 20                |          |
| Surr: Dibromofluoromethane   | 1068                   | 100   | 1000                     | (  | 0              | 107              | 71-125           | 1081                         | 1.15          | 20                |          |
| Surr: Toluene-d8             | 1009                   | 100   | 1000                     | (  | 0              | 101              | 75-125           | 1029                         | 2.02          | 20                |          |
| The following samples were a | nalyzed in this batch: | 1 -   | 708117-05A<br>708117-10A |  |                | 17-08A<br>17-12A |                  | 08117-09A<br>08117-13A       |               |                   |          |

ND - Not Detected at the Reporting Limit

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

|  |   |   |   |                           |                            | •  |  |  |  |  |                          |
|--|---|---|---|---------------------------|----------------------------|--|--|--|--|--|--------------------------|
| MBLK Sample ID: VBLKW-080907   |   |   | ***************************************   |                           |                            | U  | nits: μ <b>g/L</b>   |  | Analysis Da  | ie: <b>08/09</b>   | /07 11:3                 |
| Client ID:   | Run   | ID: VOA2_                                   | 070809A   |                           | Sec                        | qNo: <b>118</b> '  | 7246   | Prep Date:   |  | DF: 1  |                          |
| Analyte  | Result  | MQL   | SPK Val   | SPK Ref<br>Value          |                            | %REC   | Control<br>Limit   | RPD Ref<br>Value   | %RPD   | RPD<br>Limit   | Qual                     |
| 1,1-Dichloroethene   | U   | 5.0   |   |                           |                            |  | * *  |  |  |  |                          |
| Surr: 1,2-Dichloroethane-d4  | 54.75   | 5.0   | 50  |                           | 0                          | 110  | 70-125   |  | 0  |  |                          |
| Surr: 4-Bromofluorobenzene   | 46.23   | 5.0   | 50  |                           | 0                          | 92.5   | 72-125   |  | 0  |  |                          |
| Surr: Dibromofluoromethane   | 55.6  | 5.0   | 50  |                           | 0                          | 111  | 71-125   |  | 0  |  |                          |
| Surr: Toluene-d8   | 50.86   | 5.0   | 50  | 114                       | 0                          | 102  | 75-125   |  | 0  |  |                          |
| LCS Sample ID: VLCSW-080907  |   |   |   |                           |                            | U  | nits: µg/L   |  | Analysis Da  | ate: <b>08/09</b>  | /07 10:49                |
| Client ID:   | Run   | ID: VOA2_                                   | 070809A   |                           | Sec                        | No: <b>118</b>   | 7245   | Prep Date:   |  | DF: 1  | •                        |
| Analyte  | Result  | MQL   | SPK Val   | SPK Ref<br>Value          |                            | %REC   | Control<br>Limit   | RPD Ref<br>Value   | %RPD   | RPD<br>Limit   | Qual                     |
| 1,1-Dichloroethene   | 44.78   | 5.0   | 50  |                           | 0                          | 89.6   | 73-124   |  | 0  |  |                          |
| Surr: 1,2-Dichloroethane-d4  | 49.13   | 5.0   | 50  |                           | 0                          | 98.3   | 70-125   |  | 0  |  |                          |
| Surr: 4-Bromofluorobenzene   | 49.82`  | 5.0   | 50  |                           | 0                          | 99.6   | 72-125   |  | 0  |  |                          |
| Surr: Dibromofluoromethane   | 51.84   | 5.0   | 50  |                           | 0                          | 104  | 71-125   |  | 0  |  |                          |
|  |   |   |   |                           |                            |  |  |  |  |  |                          |
| Surr: Toluene-d8   | 50.88   | 5.0   | 50  |                           | 0                          | 102  | 75-125   |  | 0  |  |                          |
|  |   | 5.0   | 50  |                           | 0                          |  |  | THE RESIDENCE OF STREET  |  | nte: 08/00   | IN7 1A-53                |
| MS Sample ID: 0708171-33AMS  |   | 5.0<br>ID: <b>VOA2_</b>                     |   |                           |                            |  | nits: µg/L   | Prep Date:   | 0<br>Analysis Da   | ate: <b>08/09</b><br>DF: <b>1</b>                        | /07 14:52                |
| MS Sample ID: 0708171-33AMS  |   |   |   | SPK Ref                   |                            | U  | nits: µg/L<br>7252   | Prep Date:   |  | DF: <b>1</b>   | /07 14:52                |
| MS Sample ID: 0708171-33AMS<br>Client ID:  |   |   |   | SPK Ref<br>Value          |                            | U  | nits: µg/L   |  |  |  | <b>/07 14:52</b><br>Qual |
| MS Sample ID: 0708171-33AMS<br>Client ID:<br>Analyte   | Run   | ID: <b>VOA2_</b>                            | 070809A   |                           |                            | U<br>No: <b>118</b>  | nits: µg/L<br>7252<br>Control  | Prep Date:<br>RPD Ref  | Analysis Da  | DF: <b>1</b><br>RPD                                      |                          |
| MS Sample ID: 0708171-33AMS<br>Client ID:<br>Analyte   | Run<br>Result   | ID: <b>VOA2_</b>                            | 070809A<br>SPK Val  |                           | Sec                        | U<br>qNo: <b>118</b><br>%REC                                 | nits: µg/L<br>7252<br>Control<br>Limit   | Prep Date:<br>RPD Ref  | Analysis Da  | DF: <b>1</b><br>RPD                                      | Qual                     |
| MS Sample ID: 0708171-33AMS Client ID: Analyte 1,1-Dichloroethene  | Run<br>Result<br>35.82  | ID: <b>VOA2_</b><br>MQL<br>5.0              | 0 <b>70809A</b><br>SPK Val  |                           | Sec<br>0                   | U<br>qNo: <b>118</b><br>%REC<br>71.6                         | nits: µg/L<br>7252<br>Control<br>Limit<br>73-124   | Prep Date:<br>RPD Ref  | Analysis Da<br>%RPD  | DF: <b>1</b><br>RPD                                      | Qual                     |
| MS Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene  Surr: 1,2-Dichloroethane-d4   | Run<br>Result<br>35.82<br>52.09   | MQL<br>5.0                                  | 50<br>50  |                           | Sec<br>0<br>0              | U<br>qNo: <b>118</b><br>%REC<br>71.6<br>104                  | nits: µg/L<br>7252<br>Control<br>Limit<br>73-124<br>70-125   | Prep Date:<br>RPD Ref  | Analysis Da<br>%RPD<br>0   | DF: <b>1</b><br>RPD                                      | Qual                     |
| MS Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene  Surr: 1,2-Dichloroethane-d4  Surr: 4-Bromofluorobenzene   | Run<br>Result<br>35.82<br>52.09<br>49.26  | MQL<br>5.0<br>5.0<br>5.0                    | 50<br>50<br>50  |                           | Sec<br>0<br>0              | U<br>No: <b>118</b><br>%REC<br>71.6<br>104<br>98.5           | nits: µg/L<br>7252<br>Control<br>Limit<br>73-124<br>70-125<br>72-125   | Prep Date:<br>RPD Ref  | Analysis Da %RPD 0 0   | DF: <b>1</b><br>RPD                                      | Qual                     |
| MS Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane  | Run  Result  35.82  52.09  49.26  53.72  50.34                                      | MQL 5.0 5.0 5.0 5.0                         | 50<br>50<br>50<br>50<br>50  |                           | 0<br>0<br>0                | VIQNO: 118:<br>%REC  71.6  104  98.5  107  101               | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125   | Prep Date:<br>RPD Ref  | %RPD 0 0 0 0   | DF: 1<br>RPD<br>Limit                                    | Qual<br>S                |
| MS Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8   | Result 35.82 52.09 49.26 53.72 50.34  | MQL 5.0 5.0 5.0 5.0                         | 50<br>50<br>50<br>50<br>50<br>50  |                           | 0<br>0<br>0<br>0           | VIQNO: 118:<br>%REC  71.6  104  98.5  107  101               | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125 nits: µg/L                                   | Prep Date:<br>RPD Ref  | %RPD 0 0 0 0 0   | DF: 1<br>RPD<br>Limit                                    | Qual<br>S                |
| MS Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708171-33AMS Client ID:  | Result 35.82 52.09 49.26 53.72 50.34  | MQL<br>5.0<br>5.0<br>5.0<br>5.0             | 50<br>50<br>50<br>50<br>50<br>50  |                           | 0<br>0<br>0<br>0           | 71.6<br>104<br>98.5<br>101                                   | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125 nits: µg/L                                   | Prep Date:<br>RPD Ref<br>Value                                       | %RPD 0 0 0 0 0   | DF: 1 RPD Limit  | Qual<br>S                |
| MS Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8  MSD Sample ID: 0708171-33AMS Client ID:  Analyte  | Run  Result  35.82  52.09  49.26  53.72  50.34  D  Run  Result                      | MQL 5.0 5.0 5.0 5.0 1D: VOA2_               | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50                                    | Value  SPK Ref Value      | 0<br>0<br>0<br>0           | WREC 71.6 104 98.5 107 101 Unano: 118:                       | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125 nits: µg/L 7253  Control Limit               | Prep Date:  RPD Ref Value  Prep Date:  RPD Ref Value                 | %RPD 0 0 0 0 Analysis Da   | DF: 1  RPD Limit  ste: 08/09  DF: 1  RPD Limit           | Qual<br>S<br>/07 15:10   |
| MS Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene                             | Run  Result  35.82  52.09  49.26  53.72  50.34  D  Run  Result  39.49               | MQL 5.0 5.0 5.0 5.0 1D: VOA2                | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50                                    | Value<br>SPK Ref<br>Value | 0<br>0<br>0<br>0           | UqNo: 118:<br>%REC 71.6 104 98.5 107 101 UqNo: 118:  %REC 79 | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125 nits: µg/L 7253  Control Limit 73-124        | Prep Date:  RPD Ref Value  Prep Date:  RPD Ref Value  35.8           | %RPD 0 0 0 0 Analysis Da %RPD 32 9.76                            | DF: 1  RPD Limit  ate: 08/09  DF: 1  RPD Limit           | Qual<br>S<br>/07 15:10   |
| MS Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 | Run  Result  35.82  52.09  49.26  53.72  50.34  D  Run  Result                      | MQL 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0     | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5 | Value<br>SPK Ref<br>Value | 0<br>0<br>0<br>0<br>0<br>0 | WREC 71.6 104 98.5 107 101 Unano: 1183 %REC 79 105           | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125 nits: µg/L 7253  Control Limit 73-124 70-125 | Prep Date:  RPD Ref Value  Prep Date:  RPD Ref Value  35.8 52.0      | %RPD 0 0 0 0 0 Analysis Da %RPD 32 9.76                          | DF: 1 RPD Limit  ate: 08/09 DF: 1 RPD Limit 20 20        | Qual<br>S<br>/07 15:1    |
| MS Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene                             | Result  35.82  52.09  49.26  53.72  50.34  D  Run  Result  39.49  52.55             | MQL 5.0 5.0 5.0 5.0 1D: VOA2                | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5 | Value<br>SPK Ref<br>Value | 0<br>0<br>0<br>0<br>0      | UqNo: 118:<br>%REC 71.6 104 98.5 107 101 UqNo: 118:  %REC 79 | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125 nits: µg/L 7253  Control Limit 73-124        | Prep Date:  RPD Ref Value  Prep Date:  RPD Ref Value  35.8           | %RPD 0 0 0 0 Analysis Da %RPD 32 9.76 99 0.886 26 1.47           | DF: 1  RPD Limit  ate: 08/09  DF: 1  RPD Limit  20 20 20 | Qual<br>S<br>/07 15:1    |
| MS Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 2-Bromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708171-33AMS Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene | Run  Result  35.82  52.09  49.26  53.72  50.34  D  Run  Result  39.49  52.55  49.99 | MQL 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5 | Value  SPK Ref Value      | 0<br>0<br>0<br>0<br>0<br>0 | WREC 71.6 104 98.5 107 101 Unano: 1183 %REC 79 105 100       | nits: µg/L 7252  Control Limit 73-124 70-125 71-125 75-125 nits: µg/L 7253  Control Limit 73-124 70-125 72-125 | Prep Date:  RPD Ref Value  Prep Date:  RPD Ref Value  35.8 52.0 49.2 | %RPD 0 0 0 0 0 Analysis Da %RPD 32 9.76 99 0.886 96 1.47 72 0.82 | DF: 1 RPD Limit  ate: 08/09 DF: 1 RPD Limit 20 20        | Qual<br>S<br>/07 15:10   |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708117

Project: Silber Road Project Batch ID: R53521 Instrument ID VOA2 Method: SW8260 **MBLK** Sample ID: VBLKW-081707 Units: µg/L Analysis Date: 08/17/07 11:31 Client ID: Run ID: VOA2\_070817A SeqNo: 1192418 Prep Date: DF: 1 RPD SPK Ref Control RPD Ref Value Limit Value Limit Analyte Result MQL SPK Val %REC %RPD Qual U 1,1-Dichloroethane 5.0 1,1-Dichloroethene U 5.0 U 5.0 1,2-Dichloroethane Ų cis-1,2-Dichloroethene 5.0 U Tetrachloroethene 5.0 Trichloroethene U 5.0 U Vinyl chloride 2.0 Surr: 1,2-Dichloroethane-d4 48.29 5.0 50 0 96.6 0 70-125 Surr: 4-Bromofluorobenzene 44.95 5.0 50 0 89.9 72-125 0 Surr: Dibromofluoromethane 5.0 0 48.41 50 96.8 71-125 0 Surr: Toluene-d8 47.93 5.0 50 0 75-125 0 95.9 LCS Sample ID: VLCSW-081707 Units: ua/L Analysis Date: 08/17/07 10:42

| cos Sample ID. VLCSVV-U6 1701 |        |                 |         |                  |    | U                 | nus. µg/L        | •                | Analysis L | ale. <b>06/1/</b> | 707 10:42 |
|-------------------------------|--------|-----------------|---------|------------------|----|-------------------|------------------|------------------|------------|-------------------|-----------|
| Client ID:                    | Run I  | D: <b>VOA2_</b> | 070817A |                  | Se | qNo: <b>119</b> : | 2417             | Prep Date:       |            | DF: <b>1</b>      |           |
| Analyte                       | Result | MQL             | SPK Val | SPK Ref<br>Value |    | %REC              | Control<br>Limit | RPD Ref<br>Value | %RPD       | RPD<br>Limit      | Qual      |
| 1,1-Dichloroethane            | 45.96  | 5.0             | 50      |                  | 0  | 91.9              | 76-120           |                  | 0          |                   |           |
| 1,1-Dichloroethene            | 44.32  | 5.0             | 50      |                  | 0  | 88.6              | 73-124           |                  | 0          |                   |           |
| 1,2-Dichloroethane            | 48.63  | 5.0             | 50      |                  | 0  | 97.3              | 78-120           |                  | 0          |                   |           |
| cis-1,2-Dichloroethene        | 49.62  | 5.0             | 50      |                  | 0  | 99.2              | 78-120           |                  | 0          |                   |           |
| Tetrachioroethene             | 45.03  | 5.0             | 50      |                  | 0  | 90.1              | 79-120           |                  | 0          |                   |           |
| Trichloroethene               | 46.99  | 5.0             | 50      |                  | 0  | 94                | 80-120           |                  | 0          |                   |           |
| Vinyl chloride                | 45.08  | 2.0             | 50      |                  | 0  | 90.2              | 74-122           |                  | 0          |                   |           |
| Surr: 1,2-Dichloroethane-d4   | 42.87  | 5.0             | 50      |                  | 0  | 85.7              | 70-125           |                  | 0          |                   |           |
| Surr: 4-Bromofluorobenzene    | 48.16  | 5.0             | 50      |                  | 0  | 96.3              | 72-125           |                  | 0          |                   |           |
| Surr: Dibromofluoromethane    | 45.44  | 5.0             | 50      |                  | 0  | 90.9              | 71-125           |                  | 0          |                   |           |
| Surr: Toluene-d8              | 48.19  | 5.0             | 50      |                  | 0  | 96.4              | 75-125           |                  | 0          |                   |           |

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708117

Project:

Silber Road Project

| MS Sample ID: 0708117-1  | 5AMS  |  |  |  | U  | nits: µg/L   |   | Analysis Da  | ite: <b>08/17</b> /                               | 07 14:4                 |
|--|---|--|--|--|--|--|---|--|---|-------------------------|
| Client ID: MW-96   | Runi  | D: <b>VOA2</b> _I  | 070817A  | Se   | qNo: <b>119</b> :  | 2426   | Prep Date:  |  | DF: 1   |                         |
| Analyte  | Result  | MQL  | SPK Val  | SPK Ref<br>Value   | %REC   | Control<br>Limit   | RPD Ref<br>Value  | %RPD   | RPD<br>Limit                                      | Qual                    |
| 1,1-Dichloroethane   | 50.32   | 5.0  | 50   | 1.224  | 98.2   | 76-120   | (   | )  |   |                         |
| 1,1-Dichloroethene   | 60.38   | 5.0  | 50   | 17.8   | 85.2   | 73-124   | (   |  |   |                         |
| 1,2-Dichloroethane   | 53,55   | 5.0  | 50   | 0  | 107  | 78-120   | C   | )  |   |                         |
| cis-1,2-Dichloroethene   | 52.76   | 5.0  | 50   | 0  | 106  | 78-120   |   | )  |   |                         |
| Tetrachloroethene  | 47.45   | 5.0  | 50   | 0  | 94.9   | 79-120   | (   | )  |   |                         |
| Trichloroethene  | 49.36   | 5.0  | - 50   | 0  | 98.7   | 80-120   | (   | )  |   |                         |
| Vinyl chloride   | 44.7  | 2.0  | 50   | 0  | 89.4   | 74-122   | C   | )  |   |                         |
| Surr: 1,2-Dichloroethane-d4  | 45.14   | 5.0  | 50   | 0  | 90.3   | 70-125   | (   | )  |   |                         |
| Surr: 4-Bromofluorobenzene   | 48.72   | 5.0  | 50   | 0  | 97.4   | 72-125   | C   | )  |   |                         |
|  |   |  |  |  |  |  |   | •  |   |                         |
| Surr: Dibromofluoromethane   | 46.71   | 5.0  | 50   | 0  | 93. <i>4</i>   | 71-125   | (   | )  |   |                         |
| Surr: Dibromofluoromethane<br>Surr: Toluene-d8   | 48.11   | 5.0<br>5.0   | 50<br>50   | 0  | 96.2   | 71-125<br>75-125<br>nits: µg/L   | (   |  | ate: <b>08/17/</b>                                | /07 15:0                |
| Surr: Dibromofluoromethane<br>Surr: Toluene-d8   | 48.11<br>5AMSD  |  | 50   | 0<br>Se  | 96.2   | 75-125<br>nits: µg/L<br>2427   | C<br>Prep Date:   | )  | DF: <b>1</b>                                      | /07 15:0                |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1  | 48.11<br>5AMSD  | 5.0  | 50   | 0  | 96.2<br>U  | 75-125<br>nits: μ <b>g/</b> L  | C   | )  |   | <b>/07 15:0</b><br>Qual |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1 Client ID: MW-96   | 48.11<br>5AMSD<br>Run II  | 5.0<br>D: <b>VOA2</b> _0   | 50<br>070817A  | 0<br>Se<br>SPK Ref   | 96.2<br>U<br>qNo: <b>119</b> :   | 75-125 nits: µg/L 2427 Control   | Prep Date:<br>RPD Ref   | Analysis Da<br>%RPD  | DF: <b>1</b><br>RPD                               |                         |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1 Client ID: MW-96  Analyte  | 48.11  5AMSD  Run II  | 5.0<br>D: <b>VOA2_</b> (   | 50<br>070817A<br>SPK Val   | SPK Ref<br>Value   | 96.2<br>U<br>qNo: <b>119</b> :<br>%REC   | 75-125 nits: µg/L 2427 Control Limit   | Prep Date:<br>RPD Ref<br>Value                                      | Analysis Da<br>%RPD<br>2 3.98  | DF: <b>1</b><br>RPD<br>Limit                      |                         |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1 Client ID: MW-96  Analyte 1,1-Dichloroethane   | 48.11  5AMSD  Run II  Result  48.35                                   | 5.0<br>D: <b>VOA2_</b> (<br>MQL<br>5.0                             | 50<br>070817A<br>SPK Val<br>50                                     | SPK Ref<br>Value   | 96.2<br>U<br>qNo: <b>119</b><br>%REC<br>94.3   | 75-125 nits: µg/L 2427 Control Limit 76-120  | Prep Date:<br>RPD Ref<br>Value<br>50.32                             | Analysis Da  %RPD  2 3.98 3 9.03   | DF: <b>1</b> RPD Limit                            |                         |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1 Client ID: MW-96  Analyte 1,1-Dichloroethane 1,1-Dichloroethene  | 48.11  5AMSD  Run II  Result  48.35  55.16                            | 5.0<br>D: VOA2_0<br>MQL<br>5.0<br>5.0                              | 50<br>070817A<br>SPK Val<br>50<br>50                               | SPK Ref<br>Value<br>1.224<br>17.8                                    | 96.2<br>U<br>qNo: <b>119</b><br>%REC<br>94.3<br>74.7                                   | 75-125 nits: µg/L 2427 Control Limit 76-120 73-124   | Prep Date:  RPD Ref Value  50.32 60.38                              | Analysis Da  %RPD  2 3.98 3 9.03 5 3.88  | DF; 1 RPD Limit 20 20                             |                         |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1 Client ID: MW-96  Analyte 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane   | 48.11  5AMSD  Run II  Result  48.35  55.16  51.51                     | 5.0<br>D: <b>VOA2_</b> (<br>MQL<br>5.0<br>5.0<br>5.0               | 50<br>070817A<br>SPK Val<br>50<br>50<br>50                         | 0<br>Se<br>SPK Ref<br>Value<br>1.224<br>17.8<br>0                    | 96.2<br>U<br>qNo: <b>119</b><br>%REC<br>94.3<br>74.7<br>103                            | 75-125 nits: µg/L 2427 Control Limit 76-120 73-124 78-120                                    | Prep Date:  RPD Ref  Value  50.32  60.38  53.55                     | %RPD 2 3.98 3 9.03 5 3.88 6 4.21   | DF: 1 RPD Limit 20 20 20                          |                         |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1  Client ID: MW-96  Analyte  1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene Cis-1,2-Dichloroethene Tetrachloroethene  | 48.11  5AMSD  Run II  48.35  55.16  51.51  50.58                      | 5.0<br>D: VOA2_0<br>MQL<br>5.0<br>5.0<br>5.0                       | 50<br>070817A<br>SPK Val<br>50<br>50<br>50<br>50                   | 0<br>Set<br>SPK Ref<br>Value<br>1.224<br>17.8<br>0                   | 96.2<br>U<br>qNo: 119:<br>%REC<br>94.3<br>74.7<br>103<br>101                           | 75-125 nits: µg/L 2427 Control Limit 76-120 73-124 78-120 78-120                             | Prep Date:  RPD Ref Value  50.32 60.38 53.55 52.76                  | Analysis Da    %RPD     3.98     3   9.03     5   3.88     6   4.21     5   13.4 | DF: 1  RPD Limit  20 20 20 20                     |                         |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1 Client ID: MW-96  Analyte  1,1-Dichloroethane 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloroethene  | 48.11  5AMSD  Result  48.35  55.16  51.51  50.58  41.51               | 5.0<br>D: <b>VOA2_</b> (<br>MQL<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0 | 50<br>070817A<br>SPK Val<br>50<br>50<br>50<br>50<br>50             | 0 Set SPK Ref Value 1.224 17.8 0 0 0                                 | 96.2<br>U<br>qNo: <b>119</b><br>%REC<br>94.3<br>74.7<br>103<br>101<br>83               | 75-125 nits: µg/L 2427 Control Limit 76-120 73-124 78-120 78-120 79-120                      | Prep Date:  RPD Ref Value  50.32 60.38 53.55 52.76 47.45            | %RPD 2 3.98 3 9.03 5 3.88 6 4.21 5 13.4 6 5.74                                   | DF: 1  RPD Limit  20 20 20 20 20 20               |                         |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1  Client ID: MW-96  Analyte  1,1-Dichloroethane 1,2-Dichloroethane cis-1,2-Dichloroethene   | 48.11  Result  48.35 55.16 51.51 50.58 41.51 46.61                    | 5.0<br>D: VOA2_0<br>MQL<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0         | 50<br>070817A<br>SPK Val<br>50<br>50<br>50<br>50<br>50             | 0 Set SPK Ref Value 1.224 17.8 0 0 0 0 0                             | 96.2<br>U<br>qNo: <b>119</b><br>%REC<br>94.3<br>74.7<br>103<br>101<br>83<br>93.2       | 75-125  nits: µg/L 2427  Control Limit  76-120 73-124 78-120 78-120 79-120 80-120            | Prep Date:  RPD Ref Value  50.32 60.38 53.58 52.76 47.45 49.36      | %RPD 2 3.98 3 9.03 5 3.88 6 4.21 5 13.4 6 5.74 7 6.59                            | DF: 1  RPD Limit  20 20 20 20 20 20 20            |                         |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1 Client ID: MW-96  Analyte 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene Cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride                       | 48.11  SAMSD  Result  48.35  55.16  51.51  50.58  41.51  46.61  41.85 | 5.0<br>MQL<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0               | 50<br>070817A<br>SPK Val<br>50<br>50<br>50<br>50<br>50<br>50<br>50 | 0 Servalue  1.224  17.8  0  0  0  0  0                               | 96.2<br>UqNo: 119:<br>%REC<br>94.3<br>74.7<br>103<br>101<br>83<br>93.2<br>83.7         | 75-125 nits: µg/L 2427 Control Limit 76-120 73-124 78-120 78-120 79-120 80-120 74-122        | Prep Date:  RPD Ref Value  50.32 60.38 53.58 52.76 47.45 49.36 44.7 | %RPD 2 3.98 3 9.03 5 3.88 6 4.21 5 13.4 6 5.74 7 6.59                            | DF: 1  RPD Limit  20 20 20 20 20 20 20 20         |                         |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708117-1 Client ID: MW-96  Analyte  1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloroethene Vinyl chloride Surr: 1,2-Dichloroethane-d4 | 48.11  Fesult  48.35 55.16 51.51 50.58 41.51 46.61 41.85 44.13        | 5.0  MQL  5.0  5.0  5.0  5.0  5.0  5.0  5.0  5.                    | 50<br>070817A<br>SPK Val<br>50<br>50<br>50<br>50<br>50<br>50<br>50 | 0 Set SPK Ref Value 1.224 17.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 96.2<br>UqNo: 119:<br>%REC<br>94.3<br>74.7<br>103<br>101<br>83<br>93.2<br>83.7<br>88.3 | 75-125 nits: µg/L 2427 Control Limit 76-120 73-124 78-120 78-120 79-120 80-120 74-122 70-125 | Prep Date:  RPD Ref Value  50.32 60.38 53.58 52.76 47.48 49.36 44.7 | %RPD 2 3.98 3 9.03 5 3.88 6 4.21 5 13.4 7 6.59 4 2.26 2 1.42                     | DF: 1 RPD Limit  20 20 20 20 20 20 20 20 20 20 20 |                         |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

| <br>     |
|----------|
| SERVICE  |
|          |
| INTEGRIT |
| TY-IN    |
| QUALITY  |

e-Lub Annlytical, Inc. 10450 Stancliff Rd. #210 Houston, Texas 77099 (Tel) 281.530.5656 (Fax) 281.530.5887

# Chain of Custody Form

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Page \_

e-Lab Analytical, Inc. 3352 128th Avenue Holland, Michigan 49424 (Tel) 616.399.6070 (Fax) 616.399.6185 

|  |  | 在 10 元 10 元 10 元 10 元 10 元 10 元 10 元 10  | ***** e-Lab Project  | Manager      | Forest Constitution of Lab. Project Manager of project representations of the project of the constitution |
|--|--|--|--|--------------|---|
| Customer Information   |  | - 1                                      | Project Information  |              | Parameter/Method Request for Analysis   |
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|  | 101:18   | 9:30                                     | H20 1  | 3            |   |
|  | 8/11/67  | 1035                                     | H20 1  | 3            | X   |
|  | 8/1/01   | 1130                                     | 1120 1   | 8            |   |
|  | 1 10/1/8   | 1385                                     | H20 1  | 3            |   |
| MW-136   | 1/07   | 1340                                     | H20 1  | 3            | X   |
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Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.
2. Theses otherwise period in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

# Sample Receipt Checklist

| Clieлt Name: <u>ERMSW-HOU</u>  |                       | Date/Time Received:  | 8/3/2007 1:20:00 PM       |
|--|-----------------------|--|---------------------------|
| Work Order Number <u>0708117</u>   |                       | Received by: PS  | <b>3</b>                  |
| Checklist completed by Journal Hz  | 8/6/67<br>Date        | Reviewed by Initials   | \$ 707                    |
| Matrix: Carrie   | er name: <u>E-Lab</u> |  |                           |
| Shipping container/cooler in good condition?   | Yes 😾                 | No Not Present   |                           |
| Custody seals intact on shipping container/cooler?   | Yes 🗌                 | No 🗌 Not Preseлt   | lacktriangledown          |
| Custody seals Intact on sample bottles?  | Yes 🔲                 | No D Not Present   | $ \overline{\mathbf{v}} $ |
| Chain of custody present?  | Yes 🗸                 | No 🗌   |                           |
| Chain of custody signed when relinquished and received?  | Yes 🗹                 | No 🗀   |                           |
| Chain of custody agrees with sample labels?  | Yes 🗹                 | No 🗀   |                           |
| Samples in proper container/bottle?  | Yes 🗹                 | No 🗀   | ,                         |
| Sample containers intact?  | Yes 🗹                 | No 🗆   |                           |
| Sufficient sample volume for Indicated test?   | Yes 🗹                 | No 🗔   |                           |
| All samples received within holding time?  | Yes 🗹                 | No 🗀   |                           |
| Container/Temp Blank temperature in compliance?  | Yes 🗹                 | No 🗔   |                           |
| Temperature(s)/Thermometer(s):   | 3.8c                  | 002  |                           |
| Water - VOA vials have zero headspace?   | Yes 🗹                 | No 🗌 No VOA vials sub  | imitted 🔲                 |
| Water - pH acceptable upon receipt?  | Yes 🔲                 | No 🗌 N/A 😾   |                           |
| Adjusted?  | Ch                    | ecked by   |                           |
| Login Notes: Trip blank not on COC; logged in withou projects; trip blank split between both jot |                       | ved in single cooler that host   | ed two separate           |
| Client contacted: Date contact   | ated;                 | Person contacted   | 1                         |
| Contacted by: Regarding:   |                       | ANN MARKET MARKE |                           |
| Comments:  |                       |  |                           |
| Corrective Action  |                       |  |                           |

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Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.
2. Univer abservate novered in a formal contract, survices provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

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# Sample Receipt Checklist

| Client Name: ERMSW-HOU   |           |              | Date/Ti  | me Received:      | 8/6/200                    | 7 2:3D:00                | PM   |  |
|--|-----------|--------------|--|-------------------|----------------------------|--------------------------|--|--|
| Work Order Number 0708117  |           |              | Receive  | ed by: <u>RSZ</u> |                            |                          |  |  |
| Checklist completed by Signeture SUBJ Date  Matrix: Carrier name:    | ج<br>E-La | <u></u>      | Review   | ed by<br>(niliala | 4                          | Q 16                     | 107<br>Date  | •  |
| Shipping container/cooler in good condition?                         | Yes       | <b>V</b>     | No 🗆   | Not Present       |                            |                          |  |  |
| Custody seals intact on shipping container/cooler?                   | Yes       |              | No 🗆   | Not Present       | $\mathbf{V}$               |                          |  |  |
| Custody seals intact on sample bottles?                              | Yes       |              | No 🗆   | Not Present       | V                          |                          |  |  |
| Chain of custody present?  |           | <u> </u>     | No 🗀   |                   |                            |                          |  |  |
| Chain of custody signed when relinquished and received?              |           | <b>✓</b>     | No 🗔   |                   |                            |                          |  |  |
| Chain of custody agrees with sample labels?                          |           | <b>✓</b>     | No 🗀   |                   |                            |                          |  |  |
| Samples in proper conteiner/bottle?                                  | Yes       | <b>V</b>     | No 🗆   |                   |                            |                          |  |  |
| Sample containers intact?  | Yes       | $\checkmark$ | No 🗌   |                   |                            |                          |  |  |
| Sufficient sample volume for indicated test?                         | Yes       | <b>~</b>     | No □   |                   |                            |                          |  |  |
| All samples received within holding time?                            | Yes       | $\mathbf{V}$ | No 🗆   |                   |                            |                          |  |  |
| Container/Temp Blank temperature in compliance?                      | Yes       | ď            | No 🗆   |                   |                            |                          |  |  |
| Temperature(s)/Thermometer(s):                                       | 2.1c      |              | 002  |                   |                            |                          |  |  |
| Water - VOA vials have zero headspace?                               | Yes       | V            | No 🗌   | No VOA vials sub  | omitted                    |                          |  |  |
| Water - pH acceptable upon receipt?                                  | Yes       |              | No 🗆   | N/A ☑             |                            |                          |  |  |
| Adjusted?  |           |              | Checked by   |                   |                            |                          |  |  |
| Login Notes: <u>Trip blank not on COC; logged in without analyst</u> | <u>s.</u> |              |  |                   |                            | •                        |  |  |
|  |           |              |  |                   |                            |                          |  |  |
|  |           |              |  |                   |                            |                          |  |  |
|  |           |              |  |                   |                            |                          |  |  |
|  |           |              |  |                   |                            |                          |  |  |
| Client contacted: Date contacted:                                    |           |              | A STATE OF THE STA | -Person-contacte: | to the state of the second | Clarke Corner don a con- |  | and the second s |
| Contacted by: Regarding:   |           |              |  |                   |                            |                          |  |  |
| Comments:  | ·         |              | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,   |                   |                            |                          |  |  |
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|  |           |              |  |                   |                            |                          |  |  |
|  |           |              |  |                   |                            |                          |  |  |
| Corrective Action  |           |              |  |                   |                            |                          |  |  |
|  |           |              |  |                   |                            |                          |  |  |
|  |           |              |  |                   |                            |                          |  |  |

### Attachment 2-2

Data Usability Summary and Laboratory Report (0708118)
Third Quarter Ground Water Sampling Event

# Former Cameron Iron Works Facility Houston, Texas

Environmental Resources Management (ERM) reviewed a laboratory analytical data package (0708118) from e-Lab Analytical, Inc. of Houston, Texas for the analysis of seven ground water samples collected on August 2, 2007 at the Former Cameron Iron Works Site in Houston, Texas (the facility). Data were reviewed to assess conformance with the requirements of the *Review and Reporting of COC Concentration Data* TRRP-13 (December 2002), and adherence to project data quality objectives.

**Purpose of Sampling Event:** Quarterly sampling event to monitor select VOCs downgradient of the facility as a response action triggered by the April 2007 results.

The data generated were evaluated in terms of representativeness, precision, accuracy, completeness and comparability.

Analysis requested included:

 SW-846 8260B – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

The data were reviewed and validated as described in the TRRP-13 Guidance Document and the results of the review/validation are discussed in this Data Usability Summary (DUS).

### INTRODUCTION

Seven ground water samples including one duplicate ground water sample, and one field blank were provided to the laboratory for analysis. Eight samples were analyzed for seven volatile organic compounds (VOCs) (1,1-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride). One trip blank was provided to the laboratory but was not analyzed per ERM's request. Rinsate and equipment blanks were not provided to the laboratory for analysis. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

## DATA REVIEW/VALIDATION RESULTS

### **Analytical Results**

The sample data are reported in mg/L for ground water samples. *Not Detected* results are reported as less than the value of the sample quantitation limit as defined by the TRRP rule. Method detection limits (MDLs) and method quantitation limits (MQLs) were also provided as part of the analytical results. Qualified sample data are listed in Table 2.

### **Preservation and Holding Times**

The samples were evaluated for agreement with the chain-of-custody. The samples were received in the appropriate containers and in good condition with the paperwork properly completed. Sample receipt temperatures were within the acceptance criteria of  $4 \pm 2$  °C. The samples were preserved in the field as specified in SW-846 Table 2-36. Samples were prepared and analyzed within holding times as specified in SW-846 Table 2-36.

### Calibrations and Tunes

Initial and continuing calibration verification was within method acceptance limits for VOC. The LRC also documents satisfactory instrument performance calibrations (GC/MS tunes) for VOC analyses.

### **Blanks**

VOCs were reported as *Not Detected* in the method blanks and the field blanks.

### **Surrogate Recoveries**

VOC sample surrogate recoveries were within the TRRP defined acceptance limits.

### **Internal Standards**

According to the LRC, the internal standards were within method-required limits.

# **Laboratory Control Samples**

The laboratory control sample/laboratory control sample duplicates (LCS/LCSD) recoveries met the TRRP defined acceptance limits for VOCs.

### Matrix Spike/Matrix Spike Duplicates

Batch R53324 matrix spike/matrix spike duplicate (MS/MSD) recoveries were below the TRRP defined acceptance limits for 1,1-Dichloroethene. Samples in preparation batch were qualified as estimated bias low (JL) for results reported as detected and *Not Detected* estimated (UJ) for results reported as *Not Detected*.

VOC analysis batches R53171, R53178, and R53226 were not project related and therefore were not assessed.

### Field Precision

One field duplicate sample was collected during this sampling event (MW-143/Dup-1).

Sample MW- 143 and duplicate sample Dup-1 were reported as *Not Detected* for the analyzed VOCs; therefore the field precision assessment was not completed.

### **Field Procedures**

The samples were collected using documented sampling procedures.

### **SUMMARY**

The data quality objectives and characteristics (i.e., representativeness, precision and accuracy, completeness, and comparability) for the project were met. Therefore, the ground water analytical data are useable for the purpose of providing current data on concentrations of chemicals of concern (COCs) in the ground water beneath and downgradient of the Former Cameron Iron Works Facility.

Qualifiers were added to the original data sheets by applying the most stringent qualifier assigned during the data usability process. When a compound had more than one qualifier assigned due to multiple reasons for qualification (MS/MSD, LCS, surrogates, etc.), the most stringent qualifier was applied to the original data sheets. For example, if benzene were assigned a J flag for calibration and a JL flag for low MS recovery during the review process, a JL flag would have been written on the original laboratory data sheets.

# TABLE 2-2-1

# Cross Reference Field Sample Identifications and Laboratory Identifications Third Quarter Ground Water Sampling Event

# Former Cameron Iron Works Facility Houston, Texas

| Field ID   | Laboratory ID |
|------------|---------------|
| 0708118-01 | MW-79         |
| 0708118-02 | MW-126        |
| 0708118-03 | MW-141        |
| 0708118-04 | MW-142        |
| 0708118-05 | MW-143        |
| 0708118-06 | MW-147        |
| 0708118-07 | Dup-1         |
| 0708118-08 | FB080207      |
| 0708118-09 | Trip Blank    |

# **TABLE 2-2-2**

# Qualified Analytical Data Third Quarter Ground Water Sampling Event

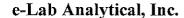
# Former Cameron Iron Works Facility Houston, Texas

| Field<br>Identification | Analyte            | Qualification | Reason for Qualification |
|-------------------------|--------------------|---------------|--------------------------|
| DUP-1                   | 1,1-dichloroethene | UJ            | MS/MSD below QC limits   |
| FB080207                | 1,1-dichloroethene | UJ            | MS/MSD below QC limits   |

Notes:

J = Estimated value

U = Not Detected





10450 Stanciiff Rd, Suite 210 Houston, Texas 77099-4338 (281) 530-5656 Fax (281) 530-5887

August 14, 2007

Marcel St. Marie ERM Southwest, Inc. 15810 Park Ten Place Suite 300 Houston, TX 77084

Tel: (281) 600-1130 Fax: (281) 600-1001

Dear Marcel St. Marie,

Re: Silber Rd Work Order: 0708118

e-Lab Analytical, Inc. received 9 samples on 8/3/2007 09:40 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 24.

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

Sincerely,

Electronically approved by: Rebecca L. Hunt

Lora Terrill

Lora Terrill

**VP** Lab Operations

helat

Certificate No: T104704231-06-TX

CLIENT:

ERM Southwest, Inc.

Project: Work Order: Silber Rd

0708118

Date: August 14, 2007

**TRRP Laboratory Data** Package Cover Page

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- Field chain-of-custody documentation:
- Sample identification cross-reference
- Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- Surrogate recovery data including: R4
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c)The laboratory's LCS QC limits.
- Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- List of method quantitation limits (MQLs) for each analyte for each method and matrix;?
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [NA] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

# Lora Terrill

Lora Terrill

**VP Lab Operations** 

|      |                | Laboratory Review Ch   | ecklist: Reportable Data                 |                     |             |           |                  |              |
|------|----------------|--|--|---------------------|-------------|-----------|------------------|--------------|
| Lab  | orato          | ry Name: e-Lab Analytical, Inc.  | LRC Date: 08/14/2007                     |                     |             |           |                  |              |
| Proj | ect N          | lame: SILBER RD. PROJECT   | Laboratory Job Number: 0708118           |                     |             |           |                  |              |
| Rev  | iewe           | r Name: Lora Terrill   | Prep Batch Number(s): R53171, R53178,    | R53226              | 5, R5       | 3324      |                  |              |
| #1   | A <sup>2</sup> | Description  | *  | Yes                 |             |           | NR <sup>4</sup>  | ER#⁵         |
| R1   | OI             | CHAIN-OF-CUSTODY (C-O-C)   |  | A Links             |             | 3453      |                  |              |
|      | .              | 1) Did samples meet the laboratory's standard conditions   | of sample acceptability upon receipt?    | X                   |             | 000000000 |                  |              |
|      |                | 2) Were all departures from standard conditions described  |  | $\frac{X}{X}$       |             |           | <u> </u>         |              |
| D2   | OT             |  |  | 1                   |             | 10.50     |                  | 143.14.13    |
| R2   | OI             | SAMPLE AND QUALITY CONTROL (QC) IDENTI   |  | 37                  | 1(2)%       | 1000000   | Mangran          | 11000000     |
|      |                | 1) Are all field sample ID numbers cross-referenced to the   |  | X                   | _           | _         | _                |              |
| R3   | OI             | 2) Are all laboratory ID numbers cross-referenced to the   | corresponding QC data?                   | X                   | 1.00        |           | 120000000        | interview    |
| IK3  | OI             | TEST REPORTS   |  | 111100              | alana,      | 1144214   | 2003000          | 4.444        |
|      |                | 1) Were all samples prepared and analyzed within holdin  |  | X                   |             |           |                  |              |
| l    |                | 2) Other than those results < MQL, were all other raw va   | lues bracketed by calibration standards? | X                   | -           |           |                  |              |
| l    |                | 3) Were calculations checked by a peer or supervisor?  |  | X                   |             | ļ         | ļ                |              |
| l    |                | 4) Were all analyte identifications checked by a peer or s   |  | X                   |             |           |                  |              |
|      |                | 5) Were sample quantitation limits reported for all analyt   |  | X                   |             |           |                  |              |
|      |                | 6) Were all results for soil and sediment samples reported   |  |                     |             | X         | <u> </u>         |              |
|      |                | 7) Was % moisture (or solids) reported for all soil and sec  | liment samples?                          |                     | <u> </u>    | X         |                  |              |
| L    |                | 8) If required for the project, TICs reported?   |  |                     | X           |           |                  |              |
| R4   | 0              | SURROGATE RECOVERY DATA  |  |                     |             | \$150 H   |                  |              |
| l    |                | Were surrogates added prior to extraction?   |  | X                   |             |           |                  |              |
|      | ļ              | 2) Were surrogate percent recoveries in all samples within   |  | X                   | <u> </u>    | <u> </u>  |                  |              |
| R5   | OI             | TEST REPORTS/SUMMMARY FORMS FOR BLAN   | IK SAMPLES                               |                     | 10000       |           | (ASSE)           |              |
| l    |                | 1) Were appropriate type(s) of blanks analyzed?  |  | X                   | <u> </u>    |           | <u> </u>         |              |
|      |                | 2) Were blanks analyzed at the appropriate frequency?  |  | X                   |             |           |                  |              |
| l    |                | 3) Were method blanks taken through the entire analytical  | l process, including preparation and, if | X                   |             |           |                  |              |
| l    |                | applicable, cleanup procedures?  |  |                     |             |           |                  |              |
|      |                | 4) Were blank concentrations < MQL?  | X  |                     |             |           |                  |              |
| R6   |                |  |  |                     |             |           |                  |              |
| •    |                | 1) Were all COCs included in the LCS?  |  | X                   |             |           |                  |              |
|      |                | 2) Was each LCS taken through the entire analytical processing   | edure, including prep and cleanup steps? | X                   |             |           |                  |              |
|      |                | 3) Were LCSs analyzed at the required frequency?   |  | X                   |             |           |                  |              |
|      |                | 4) Were LCS (and LCSD, if applicable) %Rs within the la  | aboratory QC limits?                     | X                   |             |           |                  |              |
|      |                | 5) Does the detectability data document the laboratory's cused to calculate the SQLs?                          | apability to detect the COCs at the MDL  | X                   |             |           |                  |              |
|      |                | 6) Was the LCSD RPD within QC limits?  |  | +                   |             | X         |                  |              |
| R7   | OI             | MATRIX SPIKE (MS) AND MATRIX SPIKE DUPL  | ICATE (MCD) DATA                         | 188094              | skiandi     | Δ.        | 347543           |              |
| IX./ | OI.            | 1) Were the project/method specified analytes included in  |  | X                   | ingegied.   | 100000000 |                  | 101-101-101  |
|      |                |  |  |                     |             |           |                  |              |
|      |                | 2) Were MS/MSD analyzed at the appropriate frequency<br>3) Were MS (and MSD, if applicable) %Rs within the lal | overtow: OC limite?                      | $\frac{X}{X}$       | X           |           |                  | 1            |
|      |                |  | boratory QC limits?                      |                     |             |           |                  | 1            |
| De   | OI             | 4) Were MS/MSD RPDs within laboratory QC limits?   |  |                     | X           |           |                  | 1            |
| R8   | OI             | ANALYTICAL DUPLICATE DATA  | ·1                                       | 37                  | (Alexandra) | 4,000,00  | tabana<br>tabana | 10000000     |
|      |                | 1) Were appropriate analytical duplicates analyzed for ea  |  | X                   |             |           |                  |              |
|      |                | 2) Were analytical duplicates analyzed at the appropriate  |  | X                   |             |           |                  |              |
| 70.0 |                | 3) Were RPDs or relative standard deviations within the  | laboratory QC limits?                    | X                   |             |           | ********         | 125555555555 |
| R9   | Ol             | METHOD QUANTITATION LIMITS (MQLS):   |  | 2.1989.6            | NORTH       |           | 1000             | 2000000      |
|      |                | 1) Are the MQLs for each method analyte listed and inclu   | <u> </u>                                 | X                   | <u> </u>    |           |                  |              |
|      |                | 2) Do the MQLs correspond to the concentration of the lo   |  | X                   |             |           |                  |              |
| ļ    | <u> </u>       | 3) Are unadjusted MQLs included in the laboratory data p   | ackage?                                  | X                   |             |           |                  | .,           |
| R10  | OI             | OTHER PROBLEMS/ANOMALIES   |  | #497165<br>11771404 |             | W-1996    |                  |              |
|      |                | 1) Are all known problems/anomalies/special conditions r   |  | X                   |             |           |                  |              |
| l    |                | 2) Were all necessary corrective actions performed for the   |  | X                   |             |           |                  |              |
| ļ    | ļ              | 3) If requested, is the justification for elevated SQLs docu   | mented?                                  | X                   |             | L         |                  |              |
|      |                |  |  |                     |             |           | <u> </u>         |              |

<sup>1</sup> Items identified by the letter "R" should be included in the laboratory data package submitted in 0 the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; l = inorganic analyses (and general chemistry, when applicable);

NA = Not applicable;

NR = Not Reviewed;

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

|      |                | Laboratory Review Ch  | ecklist: Supporting Data                   |              |  | <del> </del>   |   |   |
|------|----------------|---|--|--------------|--|--|---|---|
| Lab  | orato          | ry Name: e-lab Analytical, Inc  | RC Date: 08/14/2007                        | •            |  |  |   |   |
|      |                |   | aboratory Job Number: 0708118              |              |  | -  |   |   |
|      |                |   |  | 2226         | D 52   | 224  |   |   |
|      |                |   | rep Batch Number(s): R53171, R53178, R53   |              |  |  | 1 /                                     | Ten 15                                  |
| #1   | A <sup>2</sup> | Description   |  | Yes          | No   | NA <sup>3</sup>  | NR <sup>4</sup>                         | ER#                                     |
| S1   | OI             | INITIAL CALIBRATION (ICAL)  | (777)                                      | 125422       | 20102002<br>111717                               |  |   |   |
|      |                | 1) Were response factors (RFs) and/or relative response fact<br>limits?                         | tors (RRFs) for each analyte within the QC | X            |  |  |   |   |
|      |                | 2) Were percent RSDs or correlation coefficient criteria me                                     | ?  | X            |  |  |   |   |
|      |                | 3) Was the number of standards recommended in the metho   |  | Х            |  |  |   |   |
|      |                | 4) Were all points generated between the lowest and highes                                      |  | X            |  |  |   |   |
|      |                | 5) Are ICAL data available for all instruments used?  |  | X            |  |  |   | -                                       |
|      |                | 6) Has the initial calibration curve been verified using an ap                                  | propriate second source standard?          | X            |  |  |   | $\top$                                  |
| S2   | OI             | INITIAL AND CONTINUING CALIBRATION VER  |  | Victoria de  |  | (40.000 to 10.000  |   |
|      |                | 1) Was the CCV analyzed at the method-required frequency  |  | Х            |  |  |   | 1                                       |
|      |                | 2) Were percent differences for each analyte within the met                                     |  | X            |  |  |   | $\top$                                  |
|      |                | 3) Was the ICAL curve verified for each analyte?  |  | X            |  |  |   | $\top$                                  |
|      |                | 4) Was the absolute value of the analyte concentration in the                                   | e inorganic CCB < MDL?                     |              |  | Х  |   | _                                       |
| S3   | 0              | MASS SPECTRAL TUNING:   | · morganie oda - maa.                      |              | Hense  |  |   |   |
|      |                | 1) Was the appropriate compound for the method used for the                                     | uning?                                     | X            |  | 2.555.002.00   |   |   |
|      |                | 2) Were ion abundance data within the method-required QC  |  | X            |  |  |   | +                                       |
| S4   | 0              | INTERNAL STANDARDS (IS):  | · AMAZIA DIJ I                             |              |  |  |   |   |
|      |                | Were IS area counts and retention times within the method-                                      | required OC limits?                        | Х            |  |  | 111100000000000000000000000000000000000 | ***********                             |
| S5   | OI             |   |  |              |  |  | oxubi ji                                | A Control                               |
| 00   | O1             | 1) Were the raw data (e.g., chromatograms, spectral data) re                                    |  | Χ            | 145519 1995                                      | Vizebijana.  | 100000000000000000000000000000000000000 | reconstitute                            |
|      |                | 2) Were data associated with manual integrations flagged or                                     |  | X            |  |  |   | +                                       |
| S6   | 0              | DUAL COLUMN CONFIRMATION  | i the raw data:                            |              | Many day   | Ceptionical  | N                                       | on Secretary                            |
|      |                | Did dual column confirmation results meet the method-requ                                       | ired OC?                                   |              |  | Х  |   |   |
| S7   | 0              | TENTATIVELY IDENTIFIED COMPOUNDS (TICS):  |  | ESANS 2      | San Alb  | 21   |   |   |
|      | Ÿ.             | If TICs were requested, were the mass spectra and TIC data                                      |  | made de S    | e 15 che language                                | X  | - September Office                      | 10,000,000,000                          |
| S8   | ī              | INTERFERENCE CHECK SAMPLE (ICS) RESULTS:  |  |              |  |  |   | 21 52 55 S                              |
| 50   | 1              | Were percent recoveries within method QC limits?  |  | SCHOOL STORY | CONTROLL   | X  |   | 180 2500 (500.00)                       |
| S9   | Т              | SERIAL DILUTIONS, POST DIGESTION SPIKES   | AND METHOD OF STANDARD                     | 10.5100 A.V. | 1367.03  | 2X   |   |   |
|      | ٨              | Were percent differences, recoveries, and the linearity within                                  |  | X            | politice   | WASHINGTON .   | \$27742760 AHD                          | (A) 20 (1950)                           |
| S10  | OI             | PROFICIENCY TEST REPORTS:   | in the QC minus specified in the memod:    |              | Name :   |  |   |   |
|      | -              | Are proficiency testing or inter-laboratory comparison resul                                    | ts on file?                                | X            | -5557754   | . Windy deliver  | tichidase matt                          | 200 00000000000000000000000000000000000 |
| \$11 | OI             | METHOD DETECTION LIMIT (MDL) STUDIES  | is on the:                                 |              | wen ve   | 111111111111111111111111111111111111111  | Singilia de                             |   |
| 511  | O1             | 1) Was a MDL study performed for each reported analyte?   |  | X            |  | 111111111111111111111111111111111111111  | 100000000000                            |   |
|      |                | 2) Is the MDL either adjusted or supported by the analysis of                                   | of DCSe?                                   | X            |  |  |   | +                                       |
| S12  | OI             | STANDARDS DOCUMENTATION   | I DCBs;                                    |              | NAME OF  |  |   | n canada.                               |
| 012  | O1             | Are all standards used in the analyses NIST-traceable or obtaining                              | tained from other appropriate sources?     | X            | totoproj   | American Company   |   | or involve                              |
| S13  | ΟĬ             | COMPOUND/ANALYTE IDENTIFICATION PROCE   |  | $\Delta$     |  |  |   |   |
| כנט  | OI             | Are the procedures for compound/analyte identification doc                                      |  | X            | WOOD IN  | of the property of   | 65065065                                | 294690EX                                |
| C 14 | OI             | DEMONSTRATION OF ANALYST COMPETENCY (   |  | <u> </u>     |  | national   |   |   |
| 717  | OI             | 1) Was DOC conducted consistent with NELAC 5C or ISO  |  | X            | 10120603   | North Control  |   |   |
|      |                | 2) Is documentation of the analyst's competency up-to-date                                      |  | X            | <del>                                     </del> |  |   | +-                                      |
| S15  | OT             |   |  | ^            | initiation of                                    | 1000000  |   |   |
| נוט  | UI             | VERIFICATION/VALIDATION DOCUMENTATION Are all the methods used to generate the data documented. |  | X            |  |  |   |   |
|      |                | (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?  | , vermen, and vanualed, where applicable,  | Λ            |  |  |   |   |
| S16  | ŌΙ             | LABORATORY STANDARD OPERATING PROCED  | URES (SOPS):                               | NEW YES      |  | struyii.   |   | ia Bonatsia                             |
|      |                | Are laboratory SOPs current and on file for each method pe                                      |  | Х            |  |  | T                                       |   |

I tems identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

- 3 NA = Not applicable.
- 4 NR = Not Reviewed,
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

<sup>2</sup> O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

| Laboratory Review Checklist: Exception Report |                                    |  |  |  |  |  |
|---|------------------------------------|--|--|--|--|--|
| Laborat                                       | ory Name: e-Lab Analytical, Inc.   | LRC Date: 08/14/2007   |  |  |  |  |
| Project                                       | Name: SILBER RD. PROJECT           | Laboratory Job Number: 0708118                               |  |  |  |  |
| Reviewer Name: Lora Terrill                   |                                    | Prep Batch Number(s): R53171, R53178, R53226, R53324         |  |  |  |  |
| ER#1  | DESCRIPTION                        |  |  |  |  |  |
| 1   | Batches R53171, R53178, and R5322  | 6 for Volatiles MS/MSDs or MS/MSD RPD are unrelated samples. |  |  |  |  |
|   | Batch R53324 Volatiles (Sample Dup | o-1) MS/MSD Recoveries below control limits for 1,1-         |  |  |  |  |
|   | · · · · · ·                        | trol limit for Vinyl chloride. RPDs in control.              |  |  |  |  |

<sup>1</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

CLIENT: ERM Southwest, Inc.

Project: Silber Rd
Work Order: 0708118

# Work Order Sample Summary

**Date:** August 14, 2007

| Lab Samp II | Client Sample ID | <u>Matrix</u> | Tag Number | Collection Date | Date Received  | Hold |
|-------------|------------------|---------------|------------|-----------------|----------------|------|
| 0708118-01  | MW-79            | Water         |            | 8/2/2007 13:43  | 8/3/2007 09:40 |      |
| 0708118-02  | MW-126           | Water         |            | 8/2/2007 15:44  | 8/3/2007 09:40 |      |
| 0708118-03  | MW-141           | Water         |            | 8/2/2007 10:09  | 8/3/2007 09:40 |      |
| 0708118-04  | MW-142           | Water         |            | 8/2/2007 11:54  | 8/3/2007 09:40 |      |
| 0708118-05  | MW-143           | Water         |            | 8/2/2007 14:38  | 8/3/2007 09:40 |      |
| 0708118-06  | MW-147           | Water         |            | 8/2/2007 09:13  | 8/3/2007 09:40 |      |
| 0708118-07  | Dup-1            | Water         |            | 8/2/2007 12:00  | 8/3/2007 09:40 |      |
| 0708118-08  | FB080207         | Water         |            | 8/2/2007 16:45  | 8/3/2007 09:40 |      |
| 0708118-09  | Trip Blank       | Water         |            | 8/2/2007 16:45  | 8/3/2007 09:40 |      |

CLIENT:

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

Lab ID:

0708118-01

Date: August 14, 2007

Client Sample ID: MW-79

**Collection Date:** 8/2/2007 1:43:00 PM

| Analyses                    | Result | Qual | SDL               | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|--------|------|-------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |        | Meth | od: <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | 0.0050 |      | 0.00060           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,2-Dichloroethane          | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichloroethene      | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Tetrachloroethene           | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Trichloroethene             | U      |      | 0.00070           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | U      |      | 0.00060           | 0.0020 | mg/L  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 111    |      |                   | 70-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 89.2   |      |                   | 72-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 110    |      |                   | 71-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Toluene-d8            | 97.1   |      |                   | 75-125 | %REC  | 1                  | 8/8/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

**CLIENT:** 

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

Lab ID:

0708118-02

Date: August 14, 2007

Client Sample ID: MW-126

Collection Date: 8/2/2007 3:44:00 PM

| Analyses                    | Result | Qual | SDL               | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|--------|------|-------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |        | Meth | od: <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | U      |      | 0.00060           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,2-Dichloroethane          | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichloroethene      | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Tetrachloroethene           | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Trichloroethene             | U      |      | 0.00070           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | U      |      | 0.00060           | 0.0020 | mg/L  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 117    |      |                   | 70-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 93.0   |      |                   | 72-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 115    |      |                   | 71-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Toluene-d8            | 102    |      |                   | 75-125 | %REC  | 1                  | 8/8/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

**CLIENT:** 

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

Lab ID:

0708118-03

Date: August 14, 2007

Client Sample ID: MW-141

**Collection Date:** 8/2/2007 10:09:00 AM

| Analyses                    | Result  | Qual | SDL                | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|---------|------|--------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |         | Meth | nod: <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | 0.022   |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | 0.52    |      | 0.0060             | 0.050  | mg/L  | 10                 | 8/9/2007      |
| 1,2-Dichloroethane          | 0.00089 | J    | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichioroethene      | 0.0021  | J    | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Tetrachloroethene           | U       |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Trichlaroethene             | U       |      | 0.00070            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | 0.0021  |      | 0.00060            | 0.0020 | mg/L  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 101     |      |                    | 70-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 111     |      |                    | 70-125 | %REC  | 10                 | 8/9/2007      |
| Surr: 4-Bromofluorobenzene  | 102     |      |                    | 72-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 91.8    |      |                    | 72-125 | %REC  | 10                 | 8/9/2007      |
| Surr: Dibromofluoromethane  | 107     |      |                    | 71-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 111     |      |                    | 71-125 | %REC  | 10                 | 8/9/2007      |
| Surr: Toluene-d8            | 101     |      |                    | 75-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Toluene-d8            | 101     |      |                    | 75-125 | %REC  | 10                 | 8/9/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

Lab ID:

0708118-04

Date: August 14, 2007

Client Sample ID: MW-142

**Collection Date:** 8/2/2007 11:54:00 AM

| Analyses                    | Result  | Qual | SDL                | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|---------|------|--------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |         | Meth | nod: <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | 0.0052  |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | 0.15    |      | 0.00060            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,2-Dichloroethane          | U       |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichioroethene      | 0.00057 | J    | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Tetrachloroethene           | U       |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Trichloroethene             | U       |      | 0.00070            | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | U       |      | 0.00060            | 0.0020 | mg/L  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 118     |      |                    | 70-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 93.9    |      |                    | 72-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 116     |      |                    | 71-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Toluene-d8            | 103     |      |                    | 75-125 | %REC  | 1                  | 8/8/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

**CLIENT:** 

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

Lab ID:

0708118-05

**Date:** August 14, 2007

Client Sample ID: MW-143

Collection Date: 8/2/2007 2:38:00 PM

| Analyses                    | Result | Qual | SDL        | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|--------|------|------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |        | Meth | od: SW8260 |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | U      |      | 0.00050    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | U      |      | 0.00060    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,2-Dichloroethane          | U      |      | 0.00050    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichloroethene      | U      |      | 0.00050    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Tetrachloroethene           | U      |      | 0.00050    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Trichloroethene             | U      |      | 0.00070    | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | U      |      | 0.00060    | 0.0020 | mg/L  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 111    |      |            | 70-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 91.2   |      |            | 72-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 111    |      |            | 71-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Toluene-d8            | 99.3   |      |            | 75-125 | %REC  | 1                  | 8/8/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

Lab ID:

0708118-06

Date: August 14, 2007

Client Sample ID: MW-147

**Collection Date:** 8/2/2007 9:13:00 AM

| Analyses                    | Result | Qual | SDL               | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|--------|------|-------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |        | Meth | od: <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,1-Dichloroethene          | U      |      | 0.00060           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| 1,2-Dichloroethane          | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| cis-1,2-Dichloroethene      | Ų      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Tetrachloroethene           | U      |      | 0.00050           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Trichloroethene             | U      |      | 0.00070           | 0.0050 | mg/L  | 1                  | 8/8/2007      |
| Vinyl chloride              | U      |      | 0.00060           | 0.0020 | mg/L  | 1                  | 8/8/2007      |
| Surr: 1,2-Dichloroethane-d4 | 105    |      |                   | 70-125 | %REC  | 1                  | 8/8/2007      |
| Surr: 4-Bromofluorobenzene  | 103    |      |                   | 72-125 | %REC  | 1                  | 8/8/2007      |
| Surr: Dibromofluoromethane  | 108    |      |                   | 71-125 | %REC  | 1                  | 8/8/2007      |
| Sun: Toluene-d8             | 103    |      |                   | 75-125 | %REC  | 1                  | 8/8/2007      |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order: Project:

0708118

Silber Rd

Lab ID:

0708118-07

Date: August 14, 2007

Client Sample ID: Dup-1

Collection Date: 8/2/2007 12:00:00 PM

Matrix: WATER

| Analyses                    | Result | Qual | SDL                | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|--------|------|--------------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       |        | Meth | nod: <b>SW8260</b> |        |       |                    | Analyst: PC   |
| 1,1-Dichloroethane          | Ü      |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/13/2007     |
| 1,1-Dichloroethene          | U      | uJ"  | 0.00060            | 0.0050 | mg/L  | 1                  | 8/13/2007     |
| 1,2-Dichloroethane          | U      |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/13/2007     |
| cis-1,2-Dichloroethene      | U      |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/13/2007     |
| Tetrachloroethene           | U      |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/13/2007     |
| Trichloroethene             | U      |      | 0.00070            | 0.0050 | mg/L  | 1                  | 8/13/2007     |
| Vinyl chloride              | U      |      | 0.00060            | 0.0020 | mg/L  | 1                  | 8/13/2007     |
| Surr: 1,2-Dichloroethane-d4 | 101    |      |                    | 70-125 | %REC  | 1                  | 8/13/2007     |
| Surr: 4-Bromofluorobenzene  | 107    |      |                    | 72-125 | %REC  | 1                  | 8/13/2007     |
| Surr: Dibromofluoromethane  | 104    |      |                    | 71-125 | %REC  | 1                  | 8/13/2007     |
| Surr: Toluene-d8            | 107    |      |                    | 75-125 | %REC  | 1                  | 8/13/2007     |

14 9/14/07

P - Dual Column results RPD > 40%

E - Value above quantitation range

CLIENT:

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

Lab ID:

0708118-08

Date: August 14, 2007

Client Sample ID: FB080207

Collection Date: 8/2/2007 4:45:00 PM

Matrix: WATER

| Analyses                    | Result | Qual | SDL                | MQL    | Units | Dilution<br>Factor | Date Analyzed      |  |
|-----------------------------|--------|------|--------------------|--------|-------|--------------------|--------------------|--|
| TCL VOLATILE ORGANICS       |        | Meth | nod: <b>SW8260</b> |        |       |                    | Analyst: <b>PC</b> |  |
| 1,1-Dichloroethane          | U      |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/13/2007          |  |
| 1,1-Dichloroethene          | U      | UJ   | 0.00060            | 0.0050 | mg/L  | 1                  | 8/13/2007          |  |
| 1,2-Dichloroethane          | U      |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/13/2007          |  |
| cis-1,2-Dichloroethene      | U      |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/13/2007          |  |
| Tetrachloroethene           | Ü      |      | 0.00050            | 0.0050 | mg/L  | 1                  | 8/13/2007          |  |
| Trichloroethene             | U      |      | 0.00070            | 0.0050 | mg/L  | 1                  | 8/13/2007          |  |
| Vinyl chloride              | U      |      | 0.00060            | 0.0020 | mg/L  | 1                  | 8/13/2007          |  |
| Surr: 1,2-Dichloroethane-d4 | 101    |      |                    | 70-125 | %REC  | 1                  | 8/13/2007          |  |
| Surr: 4-Bromofluorobenzene  | 103    |      |                    | 72-125 | %REC  | 1                  | 8/13/2007          |  |
| Surr: Dibromofluoromethane  | 101    |      |                    | 71-125 | %REC  | 1                  | 8/13/2007          |  |
| Surr: Toluene-d8            | 102    | 44   | ·                  | 75-125 | %REC  | 1                  | 8/13/2007          |  |
|                             |        | 9/10 | 1107               |        |       |                    |                    |  |

Qualifiers:

U - Analyzed for but Not Detected

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

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 8 of 8

Date: Aug 14, 2007

**METHOD DETECTION /** 

**REPORTING LIMITS** 

Test Code:

8260\_TCL\_W

Test Number: Test Name:

SW8260

TCL Volatile Organics

Matrix:

Units mo/I

| Matrix | : Aqueous Units: mg/L       |            | 100    |                |
|--------|-----------------------------|------------|--------|----------------|
| Туре   | Analyte                     | CAS        | MDL    | Unadjusted MQL |
| A      | 1,1-Dichloroethane          | 75-34-3    | 0.0005 | 0.005          |
| Α      | 1,1-Dichloroethene          | 75-35-4    | 0.0006 | 0.005          |
| A      | 1,2-Dichloroethane          | 107-06-2   | 0.0005 | 0.005          |
| Α      | cis-1,2-Dichloroethene      | 156-59-2   | 0.0005 | 0.005          |
| Α      | Tetrachloroethene           | 127-18-4   | 0.0005 | 0.005          |
| A      | Trichloroethene             | 79-01-6    | 0.0007 | 0.005          |
| Α      | Vinyl chloride              | 75-01-4    | 0.0006 | 0.002          |
| S      | Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 0      | 0              |
| S      | Surr: 4-Bromofluorobenzene  | 460-00-4   | 0      | 0              |
| S      | Surr: Dibromofluoromethane  | 1868-53-7  | 0      | 0              |
| S      | Surr: Toluene-d8            | 2037-26-5  | 0      | 0              |

CLIENT:

ERM Southwest, Inc.

Work Order: Project:

0708118

Silber Rd

Date: Aug 14 2007

| Batch ID: R53171 Instrumer  | nt ID VOA2 |                 | Metho   | d: SW826         | 0   |                   |                  |   |            |                    |            |
|-----------------------------|------------|-----------------|---------|------------------|-----|-------------------|------------------|---|------------|--------------------|------------|
| MBLK Sample ID: VBLKW-08    | 30807      |                 |         |                  |     | U                 | nits: µg/L       |   | Analysis D | ate: <b>08/0</b> 8 | /07 11:46  |
| Client ID:                  | Run I      | D: <b>VOA2_</b> | 070808B |                  | Se  | qNo: <b>118</b> ( | 6514             | Prep Date:                              |            | DF: <b>1</b>       |            |
| Analyte                     | Result     | MQL             | SPK Val | SPK Ref<br>Value |     | %REC              | Control<br>Limit | RPD Ref<br>Value                        | %RPD       | RPD<br>Limit       | Qual       |
| 1,1-Dichloroethane          | U          | 5.0             |         |                  |     |                   |                  |   |            |                    |            |
| 1,1-Dichloroethene          | U          | 5.0             |         |                  |     |                   | ~-               | ,                                       |            |                    |            |
| 1,2-Dichloroethane          | U          | 5.0             |         |                  |     |                   |                  |   |            |                    |            |
| cis-1,2-Dichloroethene      | U          | 5.0             |         |                  |     |                   |                  |   |            |                    |            |
| Tetrachloroethene           | U          | 5.0             |         |                  |     |                   |                  |   |            |                    |            |
| Trichloroethene             | U          | 5.0             |         |                  |     |                   |                  |   |            |                    |            |
| Vinyl chloride              | U          | 2.0             |         |                  |     |                   |                  |   |            |                    |            |
| Surr: 1,2-Dichloroethane-d4 | 54.39      | 5.0             | 50      |                  | 0   | 109               | 70-125           | ,                                       | 0          |                    |            |
| Surr: 4-Bromofluorobenzene  | 46.16      | 5.0             | 50      |                  | 0   | 92.3              | 72-125           |   | 0          |                    |            |
| Surr: Dibromofluoromethane  | 55.93      | 5.0             | 50      |                  | 0   | 112               | 71-125           |   | 0          |                    |            |
| Surr: Toluene-d8            | 50.21      | 5.0             | 50      |                  | 0   | 100               | 75-125           |   | 0          |                    |            |
| LCS Sample ID: VLCSW-08     | 0807       |                 |         |                  |     | U                 | nits: µg/L       |   | Analysis D | ate: <b>08/0</b> 8 | i/07 10:58 |
| Client ID:                  | Run I      | D: <b>VOA2_</b> | 070808B |                  | Sec | qNo: <b>118</b> 6 | 3513             | Prep Date:                              |            | DF: 1              |            |
|                             |            |                 |         | SPK Ref          |     |                   | Control          | RPD Ref                                 |            | RPD                |            |
| Analyte                     | Result     | MQL             | SPK Val | Value            |     | %REC              | Limit            | Value                                   | %RPD       | Limit              | Qual       |
| 1,1-Dichloroethane          | 48.21      | 5.0             | 50      |                  | 0   | 96.4              | 76-120           |   | 0          |                    |            |
| 1,1-Dichioroethene          | 45.93      | 5.0             | 50      |                  | 0   | 91.9              | 73-124           |   | 0          |                    |            |
| 1,2-Dichloroethane          | 47.56      | 5.0             | 50      |                  | 0   | 95.1              | 78-120           |   | 0          |                    |            |
| cis-1,2-Dichloroethene      | 54.29      | 5.0             | 50      |                  | 0   | 109               | 78-120           |   | 0          | <b>V</b>           |            |
| Tetrachloroethene           | 42.92      | 5.0             | 50      |                  | 0   | 85.8              | 79-120           |   | 0          |                    |            |
| Trichloroethene             | 46.27      | 5.0             | 50      |                  | 0   | 92.5              | 80-120           | *************************************** | 0          |                    |            |
| Vinyl chloride              | 44.4       | 2.0             | 50      |                  | 0   | 88.8              | 74-122           |   | 0          |                    |            |
| Surr: 1,2-Dichloroethane-d4 | 50.1       | 5.0             | 50      |                  | 0   | 100               | 70-125           |   | 0          |                    |            |
| Surr: 4-Bromofluorobenzene  | 48.93      | 5.0             | 50      |                  | 0   | 97.9              | 72-125           |   | 0          |                    |            |
| Surr: Dibromofluoromethane  | 52.61      | 5.0             | 50      |                  | 0   | 105               | 71-125           |   | 0          |                    |            |
|                             | 50.33      | 5.0             |         |                  |     |                   |                  |   | 0          |                    |            |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

|   |   |  | Metro   | d: <b>SW8260</b> | •   |  |  | TO SOLA VINITA I  |  |           |
|---|---|--|---|------------------|---|--|--|---|--|-----------|
| MS Sample ID: 0708  | 072-01AMS   | ara artama arta a arta arta arta arta ar   |   |                  |   | Jnits: µg/L  |  | Analysis Da   | ite: <b>08/08</b>  | /07 14:36 |
| Client ID:  | Run II  | D: <b>VOA2_</b>                            | 070808B   | 5                | SeqNo: 11   | 36516  | Prep Date:   |   | DF: <b>20</b>  |           |
| Analyte   | Result  | MQL.                                       | SPK Val   | SPK Ref<br>Value | %REC  | Control<br>Limit   | RPD Ref<br>Value   | %RPD  | RPD<br>Limit   | Qual      |
| 1,1-Dichloroethane  | 936.9   | 100  | 1000  | (                | 93.7  | 76-120   | (  | )   |  |           |
| 1,1-Dichloroethene  | 784   | 100  | 1000  | (                | 78.4  | 73-124   | (  | )   |  |           |
| 1,2-Dichloroethane  | 970.3   | 100  | 1000  | (                | 97  | 78-120   | (  | )   |  |           |
| cis-1,2-Dichloroethene  | 1050  | · 100                                      | 1000  | . (              | 105   | 78-120   | (  | )   |  |           |
| Tetrachloroethene   | 758.4   | 100  | 1000  | (                | 75.8  | 79-120   | (  | )   |  | S         |
| Trichloroethene   | 847.7   | 100  | 1000  | (                | 84.8  | 80-120   | (  | )   |  |           |
| Vinyl chloride  | 739.8   | 40   | 1000  | (                | 74  | 74-122   | (  | )   |  | s         |
| Surr: 1,2-Dichloroethane-d4   | 1067  | 100  | 1000  | (                | 107   | 70-125   | (  | )   |  |           |
| Surr: 4-Bromofluorobenzene  | 1026  | 100  | 1000  | (                | 103   | 72-125   | (  | )   |  | LITELY    |
| Surr: Dibromofluoromethane  | 1081  | 100  | 1000  | (                | 108   | 71-125   | (  | )   |  |           |
| Surr: Toluene-d8  | 1029  | 100  | 1000  | (                | ) 103   | 75-125   | (  | )   | ***  |           |
| MSD Sample ID: 0708   | 072-01AMSD  |  |   | 0                |   | Jnits: µg/L  |  | Anaiysis Da   | ite: 08/08   | /07 15:00 |
| Client ID:  | Run II  | D: <b>VOA2</b> _I                          | 070808B   |                  |   | _  | Prep Date:   | •   |  |           |
|   |   |  |   |                  | SECINO. TT  |  | i i co Dalc.   |   | DF: 20   |           |
|   |   | _  |   |                  | SeqNo: 118  |  | •  |   | DF: 20   |           |
| Analyte   | Result  | MQL  | SPK Val   | SPK Ref<br>Value | %REC  | Control<br>Limit   | RPD Ref<br>Value   | %RPD  | RPD<br>Limit   | Qual      |
| Analyte 1,1-Dichloroethane  | Result  | _  |   | SPK Ref<br>Value | ,   | Control  | RPD Ref  |   | RPD  | Qual      |
| 1,1-Dichloroethane  |   | MQL  | SPK Val   | SPK Ref<br>Value | %REC<br>) 91.8                                      | Control<br>Limit   | RPD Ref<br>Value   | 2.05  | RPD<br>Limit   | Qual      |
| 1,1-Dichloroethane<br>1,1-Dichloroethene  | 918   | MQL<br>100                                 | SPK Val   | SPK Ref<br>Value | %REC<br>91.8<br>78.6                                | Control<br>Limit<br>76-120   | RPD Ref<br>Value   | 2.05<br>0.258   | RPD<br>Limit   | Qual      |
| 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane  | 918<br>786.1  | MQL<br>100<br>100                          | SPK Val<br>1000<br>1000   | SPK Ref<br>Value | %REC 91.8 78.6 97.5                                 | Control<br>Limit<br>76-120<br>73-124   | RPD Ref<br>Value<br>936.9  | 2.05<br>4 0.258<br>3 0.485  | RPD<br>Limit<br>20<br>20   | Qual      |
| 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene   | 918<br>786.1<br>975   | MQL<br>100<br>100                          | SPK Val<br>1000<br>1000<br>1000   | SPK Ref<br>Value | %REC 91.8 78.6 97.5 104                             | 76-120<br>73-124<br>78-120   | PPD Ref<br>Value<br>936.9<br>784<br>970.3                          | 2.05<br>4 0.258<br>3 0.485<br>0 0.997   | RPD<br>Limit<br>20<br>20<br>20                                     | Qual      |
| 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene   | 918<br>786.1<br>975<br>1039   | MQL<br>100<br>100<br>100                   | SPK Val<br>1000<br>1000<br>1000<br>1000   | SPK Ref<br>Value | %REC 91.8 78.6 97.5 104 73.2                        | 76-120<br>73-124<br>78-120<br>78-120   | PPD Ref<br>Value<br>936.9<br>784<br>970.3                          | 2.05<br>4 0.258<br>3 0.485<br>0 0.997<br>4 3.51                                       | RPD<br>Limit<br>20<br>20<br>20<br>20<br>20                         |           |
| 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene   | 918<br>786.1<br>975<br>1039<br>732.2                                    | MQL<br>100<br>100<br>100<br>100            | SPK Val<br>1000<br>1000<br>1000<br>1000<br>1000                                 | SPK Ref<br>Value | %REC 91.8 78.6 97.5 104 73.2 84.5                   | Control<br>Limit<br>76-120<br>73-124<br>78-120<br>78-120   | 936.9<br>970.3<br>970.3<br>970.3                                   | 2.05<br>0.258<br>0.485<br>0.997<br>3.51<br>0.26                                       | RPD<br>Limit<br>20<br>20<br>20<br>20<br>20                         |           |
| 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene   | 918<br>786.1<br>975<br>1039<br>732.2<br>845.5                           | MQL<br>100<br>100<br>100<br>100<br>100     | SPK Val<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000                         | SPK Ref<br>Value | %REC 91.8 78.6 97.5 104 73.2 84.5 75.4              | 76-120<br>73-124<br>78-120<br>78-120<br>79-120<br>80-120   | 936.9<br>784<br>970.3<br>1050<br>758.4<br>847.7                    | 2.05<br>4 0.258<br>3 0.485<br>0 0.997<br>4 3.51<br>7 0.26<br>3 1.97                   | RPD<br>Limit<br>20<br>20<br>20<br>20<br>20<br>20<br>20             |           |
| 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride  | 918<br>786.1<br>975<br>1039<br>732.2<br>845.5<br>754.5                  | MQL 100 100 100 100 100 40                 | SPK Val<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000                         | SPK Ref<br>Value | %REC 91.8 78.6 97.5 104 73.2 84.5 75.4 104          | 76-120<br>73-124<br>78-120<br>78-120<br>79-120<br>80-120<br>74-122                               | 936.9<br>784<br>970.3<br>1050<br>758.4<br>847.7                    | 2.05<br>4 0.258<br>3 0.485<br>0 0.997<br>4 3.51<br>7 0.26<br>3 1.97<br>7 2.55         | RPD<br>Limit<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20       |           |
| 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride Surr: 1,2-Dichloroethane-d4                            | 918<br>786.1<br>975<br>1039<br>732.2<br>845.5<br>754.5                  | MQL 100 100 100 100 100 40 100             | SPK Val<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000         | SPK Ref<br>Value | %REC 91.8 78.6 97.5 104 73.2 84.5 75.4 104 98.8     | Control<br>Limit<br>76-120<br>73-124<br>78-120<br>78-120<br>79-120<br>80-120<br>74-122<br>70-125 | 936.9<br>936.9<br>970.3<br>1050<br>758.4<br>847.7<br>739.8<br>1060 | 2.05<br>0.258<br>0.485<br>0.997<br>0.26<br>1.97<br>2.55<br>3.76                       | RPD<br>Limit<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 |           |
| 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane cis-1,2-Dichloroethane Tetrachloroethene Trichloroethene Vinyl chloride Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene | 918<br>786.1<br>975<br>1039<br>732.2<br>845.5<br>754.5<br>1040<br>987.7 | MQL 100 100 100 100 100 100 100 100 100 10 | SPK Val<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000 | SPK Ref<br>Value | %REC 91.8 78.6 97.5 104 73.2 84.5 75.4 104 98.8 107 | Control<br>Limit<br>76-120<br>73-124<br>78-120<br>78-120<br>79-120<br>80-120<br>74-122<br>70-125 | 936.9<br>784<br>970.3<br>1050<br>758.4<br>847.7<br>739.8<br>1067   | 2.05<br>0.258<br>0.485<br>0.997<br>3.51<br>7.0.26<br>3.1.97<br>7.2.55<br>3.76<br>1.15 | RPD<br>Limit<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | A.        |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

| Batch ID: R53178 Instrume   | ent ID VOA1 |                 | Metho   | d: <b>SW826</b>   | 0   |                  |                  | ··   |            |                    |            |
|-----------------------------|-------------|-----------------|---|---|-----|------------------|------------------|--|------------|--------------------|------------|
| MBLK Sample ID: VBLKW-0     | 80807       |                 | ata gata garrin ata gasta tanahari 1944 ga ata ata ata gata garta arrin aga | tanka asalah da pintu at isa at a aka tita a a pintun isaka pintu |     | U                | nits: µg/L       |  | Analysis D | ate: <b>08/0</b> 8 | 3/07 12:24 |
| Client ID:                  | Run I       | D: <b>VOA1_</b> | 070808A   |   | Sec | No: <b>118</b> 0 | 6605             | Prep Date:   |            | DF: 1              |            |
| Analyte                     | Result      | MQL             | SPK Val   | SPK Ref<br>Value  |     | %REC             | Control<br>Limit | RPD Ref<br>Value   | %RPD       | RPD<br>Limit       | Qual       |
| 1,1-Dichloroethane          | U           | 5.0             |   |   |     |                  |                  |  |            |                    |            |
| 1,1-Dichloroethene          | U           | 5.0             |   |   |     |                  |                  |  |            |                    |            |
| 1,2-Dichloroethane          | U           | 5.0             |   |   |     |                  |                  |  |            |                    |            |
| cis-1,2-Dichloroethene      | U           | 5.0             | -   |   |     |                  |                  |  |            | •                  |            |
| Tetrachioroethene           | U           | 5.0             |   |   |     |                  |                  |  |            |                    |            |
| Trichloroethene             | U           | 5.0             |   |   |     |                  |                  |  |            |                    |            |
| Vinyl chloride              | U           | 2.0             |   |   |     |                  |                  |  |            |                    |            |
| Surr: 1,2-Dichloroethane-d4 | 48.86       | 5.0             | 50  |   | 0   | 97.7             | 70-125           |  | 0          |                    |            |
| Surr: 4-Bromofluorobenzene  | 50.36       | 5.0             | 50  |   | 0   | 101              | 72-125           |  | 0          |                    |            |
| Surr: Dibromofluoromethane  | 52.27       | 5.0             | 50  |   | 0   | 105              | 71-125           | THE CASE OF THE CA | 0          |                    |            |
| Surr: Toluene-d8            | 51.47       | 5.0             | 50  |   | 0   | 103              | 75-125           | 77 770 75004   | 0          |                    |            |
| LCS Sample ID: VLCSW-0      | 80807       |                 |   |   |     | Uı               | nits: µg/L       |  | Analysis D | ate: 08/08         | 3/07 11:08 |
| Client iD:                  | Run I       | D: <b>VOA1_</b> | 070808A   |   | Sec | No: 1186         |                  | Prep Date:   | •          | DF: 1              |            |
|                             |             |                 |   | SPK Ref   |     |                  | Control          | RPD Ref  |            | RPD                |            |
| Analyte                     | Result      | MQL             | SPK Val   | Value   |     | %REC             | Limit            | Value  | %RPD       | Limit              | Qual       |
| 1,1-Dichloroethane          | 53.63       | 5.0             | 50  |   | 0   | 107              | 76-120           |  | 0          |                    |            |
| 1,1-Dichloroethene          | 50.52       | 5.0             | 50  |   | 0   | 101              | 73-124           |  | 0          |                    |            |
| 1,2-Dichloroethane          | 52.09       | 5.0             | 50  |   | 0   | 104              | 78-120           |  | 0          |                    |            |
| cis-1,2-Dichloroethene      | 52.87       | 5.0             | 50  |   | 0   | 106              | 78-120           |  | 0          |                    |            |
| Tetrachloroethene           | 49          | 5.0             | 50  |   | 0   | 98               | 79-120           |  | 0          |                    |            |
| Trichloroethene             | 50.05       | 5.0             | 50  |   | 0   | 100              | 80-120           |  | 0          |                    |            |
| Vinyl chloride              | 52.55       | 2.0             | 50  |   | 0   | 105              | 74-122           |  | 0          |                    |            |
| Surr: 1,2-Dichloroethane-d4 | 52.95       | 5.0             | 50  |   | 0   | 106              | 70-125           |  | 0          |                    |            |
| Surr: 4-Bromofluorobenzene  | 51.87       | 5.0             | 50  |   | 0   | 104              | 72-125           |  | 0          |                    |            |
| Surr: Dibromofluoromethane  | 53.88       | 5.0             | 50  |   | 0   | 108              | 71-125           | T200000  | 0          |                    |            |
| Surr: Toluene-d8            | 51.93       | 5.0             | 50  |   | 0   | 104              | 75-125           |  | 0          |                    |            |

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

| MS Sample ID: 0708098-0  | 1AMS  |  |  |                  | Į  | inits: μg/L  |   | Analysis Da   | ate: <b>08/08</b> /                                    | 07 15:24                  |
|--|---|--|--|------------------|--|--|---|---|--|---------------------------|
| Client ID:   |   | D: <b>VOA1_</b>  | 070808A  | 5                | eqNo: 118  |  | Prep Date:  | ,   | DF: 1  |                           |
|  |   |  |  | SPK Ref          |  | Control  | RPD Ref   |   | RPD  |                           |
| Analyte  | Result  | MQL  | SPK Val  | Value            | %REC   | Limit  | Value   | %RPD  | Limit  | Qual                      |
| 1,1-Dichloroethane   | 48.82   | 5.0  | 50   | O                | 97.6   | 76-120   |   | 0   |  |                           |
| 1,1-Dichloroethene   | 42.36   | 5.0  | 50   | 0                | 84.7   | 73-124   |   | 0   |  |                           |
| 1,2-Dichloroethane   | 53.09   | 5.0  | 50   | 0                | 106  | 78-120   |   | 0   |  |                           |
| cis-1,2-Dichloroethene   | 49.99   | 5.0  | 50   | 0                | 100  | 78-120   |   | 0   |  |                           |
| Tetrachloroethene  | 42.23   | 5.0  | 50   | 0                | 84.5   | 79-120   |   | 0   |  |                           |
| Trichloroethene  | 44.08   | 5.0  | 50   | 0                | 88.2   | 80-120   |   | 0   |  |                           |
| Vinyl chloride   | 40.74   | 2.0  | 50   | 0                | 81.5   | 74-122   |   | 0   |  |                           |
| Surr: 1,2-Dichloroethane-d4  | 52.12   | 5.0  | 50   | 0                | 104  | 70-125   |   | 0   |  |                           |
| Surr: 4-Bromofluorobenzene   | 52.2  | 5.0  | 50   | 0                | 104  | 72-125   |   | 0   |  |                           |
|  |   |  |  |                  |  | 74 405   |   | _   |  |                           |
| Surr: Dibromofluoromethane   | 52.67   | 5.0  | 50   | 0                | 105  | 71-125   |   | 0   |  |                           |
| Surr: Dibromofluoromethane Surr: Toluene-d8  | 52.67<br>50.75  | 5.0<br>5.0   | 50<br>50   | 0                |  | 71-125<br>75-125   |   | 0   |  |                           |
| Surr: Toluene-d8   | 50.75   |  |  |                  | 102  | 75-125   |   | 0   | ate: 08/08/  | '07 15:4°                 |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0   | 50.75<br>D1AMSD   | 5.0  | 50   | 0                | <i>102</i>   | 75-125<br>Inits: µg/L  |   | ·   |  | 07 15:49                  |
| Surr: Toluene-d8   | 50.75<br>D1AMSD   |  | 50   | 9                | 102  | 75-125<br>Inits: µg/L<br>6609  | Prep Date:  | 0   | DF: <b>1</b>   | 07 15:49                  |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0   | 50.75<br>D1AMSD   | 5.0  | 50   | 0                | <i>102</i>   | 75-125<br>Inits: µg/L  |   | 0   |  | <b>'07 15:4</b> 9<br>Qual |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0  Client ID:   | <i>50.75</i><br><b>D1AMSD</b><br>Run I  | 5.0<br>D: <b>VOA1_</b>   | 50<br>070808A  | SPK Ref          | 102<br>L<br>eqNo: 118<br>%REC  | 75-125<br>Inits: µg/L<br>6609<br>Control   | Prep Date:  | 0<br>Analysis Da<br>%RPD  | DF: <b>1</b><br>RPD                                    |                           |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0  Client ID:  Analyte  | 50.75<br>D1AMSD<br>Run I<br>Result  | 5.0<br>D: <b>VOA1_</b><br>MQL                                    | 50<br>070808A<br>SPK Val   | SPK Ref<br>Value | 102<br>L<br>eqNo: 118<br>%REC<br>99  | 75-125<br>Inits: µg/L<br>6609<br>Control<br>Limit  | Prep Date:<br>RPD Ref<br>Value                                      | 0<br>Analysis Da<br>%RPD<br>2 1.36                                    | DF: 1<br>RPD<br>Limit                                  |                           |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0  Client ID:  Analyte  1,1-Dichloroethane  | 50.75<br>D1AMSD<br>Run I<br>Result<br>49.49                                   | 5.0<br>D: <b>VOA1_</b><br>MQL<br>5.0                             | 50<br>070808A<br>SPK Val<br>50   | SPK Ref<br>Value | 102<br>L<br>eqNo: 118<br>%REC<br>99<br>66.5  | 75-125  Inits: µg/L 6609  Control Limit 76-120   | Prep Date:<br>RPD Ref<br>Value<br>48.8                              | 0<br>Analysis Da<br>%RPD<br>2 1.36<br>6 24.1                          | DF: <b>1</b> RPD  Limit                                | Qual                      |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0 Client ID:  Analyte  1,1-Dichloroethane 1,1-Dichloroethene  | 50.75<br>D1AMSD<br>Run I<br>Result<br>49.49<br>33.25                          | 5.0<br>D: <b>VOA1_</b><br>MQL<br>5.0<br>5.0                      | 50<br>070808A<br>SPK Val<br>50<br>50                                     | SPK Ref<br>Value | 102<br>L<br>eqNo: 118<br>%REC<br>99<br>66.5<br>107                                       | 75-125  Units: µg/L 6609  Control Limit 76-120 73-124  | Prep Date:<br>RPD Ref<br>Value<br>48.8<br>42.3                      | 0 Analysis Da %RPD 2 1.36 6 24.1 9 0.322                              | DF: <b>1</b> RPD Limit 20 20                           | Qual                      |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0 Client ID:  Analyte  1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane   | 50.75  Plants  Run I  Result  49.49  33.25  53.26                             | 5.0<br>D: <b>VOA1_</b><br>MQL<br>5.0<br>5.0<br>5.0               | 50<br>070808A<br>SPK Val<br>50<br>50                                     | SPK Ref<br>Value | 102<br>LeqNo: 118<br>%REC<br>99<br>66.5<br>107<br>96.6                                   | 75-125 Units: µg/L 6609 Control Limit 76-120 73-124 78-120   | Prep Date:  RPD Ref  Value  48.8  42.3  53.0                        | 0 Analysis Da  %RPD 2 1.36 6 24.1 9 0.322 9 3.41                      | DF: 1  RPD Limit  20 20 20 20                          | Qual                      |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0 Client ID:  Analyte  1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene  | 50.75  Page 14.49 33.25 53.26 48.31   | 5.0<br>D: <b>VOA1_</b><br>MQL<br>5.0<br>5.0<br>5.0<br>5.0        | 50<br>070808A<br>SPK Val<br>50<br>50<br>50<br>50                         | SPK Ref<br>Value | 102<br>LeqNo: 118<br>%REC<br>99<br>66.5<br>107<br>96.6                                   | 75-125 Units: µg/L 6609 Control Limit 76-120 73-124 78-120 78-120                                  | Prep Date:  RPD Ref Value  48.8 42.3 53.0 49.9                      | %RPD  2 1.36 6 24.1 9 0.322 9 3.41 3 7.44                             | DF: 1  RPD Limit  20 20 20 20 20                       | Qual                      |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0  Client ID:  Analyte  1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene  Tretrachloroethene  Trichloroethene                                      | 50.75  PlamsD  Run I  Result  49.49  33.25  53.26  48.31  45.5                | 5.0<br>D: <b>VOA1_</b><br>MQL<br>5.0<br>5.0<br>5.0<br>5.0        | 50<br>070808A<br>SPK Val<br>50<br>50<br>50<br>50<br>50                   | SPK Ref<br>Value | 102<br>LeqNo: 118<br>%REC<br>99<br>66.5<br>107<br>96.6<br>91<br>90.2                     | 75-125 Inits: µg/L 6609 Control Limit 76-120 73-124 78-120 78-120 79-120                           | Prep Date:  RPD Ref  Value  48.8  42.3  53.0  49.9  42.2            | %RPD 2 1.36 6 24.1 9 0.322 9 3.41 3 7.44 8 2.26                       | DF: 1  RPD Limit  20 20 20 20 20 20                    | Qual                      |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0 Client ID:  Analyte  1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene Tretrachloroethene Trichloroethene   | 50.75  PlamsD  Run I  Result  49.49  33.25  53.26  48.31  45.5  45.09         | 5.0<br>D: <b>VOA1_</b><br>MQL<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0 | 50<br>070808A<br>SPK Val<br>50<br>50<br>50<br>50<br>50<br>50             | SPK Ref<br>Value | 102<br>LeqNo: 118<br>%REC<br>99<br>66.5<br>107<br>96.6<br>91<br>90.2<br>86               | 75-125  Inits: µg/L 6609  Control Limit  76-120 73-124 78-120 78-120 79-120 80-120                 | Prep Date:  RPD Ref Value  48.8 42.3 53.0 49.9 42.2 44.0            | %RPD 2 1.36 6 24.1 9 0.322 9 3.41 3 7.44 8 2.26 4 5.34                | DF: 1  RPD Limit  20 20 20 20 20 20 20 20              | Qual                      |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0 Client ID:  Analyte  1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride                           | 50.75  Plansd  Result  49.49  33.25  53.26  48.31  45.5  45.09  42.98         | 5.0  D: VOA1_  MQL  5.0  5.0  5.0  5.0  5.0  2.0                 | 50<br>070808A<br>SPK Val<br>50<br>50<br>50<br>50<br>50<br>50<br>50       | SPK Ref<br>Value | 102<br>LeqNo: 118<br>%REC<br>99<br>66.5<br>107<br>96.6<br>91<br>90.2<br>86<br>105        | 75-125  Inits: µg/L 6609  Control Limit  76-120 73-124 78-120 78-120 79-120 80-120 74-122          | Prep Date:  RPD Ref Value  48.8 42.3 53.0 49.9 42.2 44.0 40.7       | %RPD 2 1.36 6 24.1 9 0.322 9 3.41 3 7.44 8 2.26 4 5.34 2 0.736        | DF: 1 RPD Limit  20 20 20 20 20 20 20 20 20 20 20      | Qual                      |
| Surr: Toluene-d8  MSD Sample ID: 0708098-0 Client ID:  Analyte  1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane cis-1,2-Dichloroethene Trichloroethene Trichloroethene Vinyl chloride Surr: 1,2-Dichloroethane-d4 | 50.75  Plans I  Result  49.49  33.25  53.26  48.31  45.5  45.09  42.98  52.51 | 5.0  MQL  5.0  5.0  5.0  5.0  5.0  5.0  5.0  5.                  | 50<br>070808A<br>SPK Val<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50 | SPK Ref<br>Value | 102<br>LeqNo: 118<br>%REC<br>99<br>66.5<br>107<br>96.6<br>91<br>90.2<br>86<br>105<br>106 | 75-125  Prits: µg/L  16609  Control Limit  76-120 73-124 78-120 78-120 79-120 80-120 74-122 70-125 | Prep Date:  RPD Ref Value  48.8  42.3  53.0  49.9  44.0  40.7  52.1 | %RPD 2 1.36 6 24.1 9 0.322 9 3.41 3 7.44 8 2.26 4 5.34 2 0.736 2 1.88 | DF: 1 RPD Limit 20 20 20 20 20 20 20 20 20 20 20 20 20 | Qual                      |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

|   | ent ID <b>VOA2</b>   | ***************************************     | MEUIO   | d: <b>SW8260</b>  |  |   |   |  |   | Selection of the select |
|---|--|---|---|---|--|---|---|--|---|--|
| MBLK Sample ID: VBLKW-0   | 180907   |   |   |   | U  | nits: µg/L  |   | Analysis Da  | ite: <b>08/09</b>                                   | /07 11:38  |
| Client ID:  | Run I  | D: <b>VOA2_</b>                             | 070809A   | S   | eqNo: <b>118</b> '   | 7246  | Prep Date:  |  | DF: <b>1</b>  |  |
| Analyte   | Result   | MQL   | SPK Val   | SPK Ref<br>Value  | %REC   | Control<br>Limit  | RPD Ref<br>Value  | %RPD   | RPD<br>Limit  | Qual   |
|   |  |   | Si it vai   |   | MINEO  |   |   | 701111111111111111111111111111111111111              |   | Quui   |
| 1,1-Dichloroethene  | U  | 5.0   |   |   | 440  |   | Marin Land  |  |   |  |
| Surr: 1,2-Dichloroethane-d4   | <i>54.75</i><br><i>4</i> 6.23  | 5.0   | 50<br>50  | 0   | 110  | 70-125  |   | 0  |   |  |
| Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane   | 40.∠3<br>55.6  | 5.0<br>5.0                                  | 50<br>50  | 0   | 92.5<br>111  | 72-125<br>71-125  |   | 0  |   |  |
| Surr: Toluene-d8  | 50.86  | 5.0   | 50<br>50  | 0   | 102  | 75-125  |   | 0  |   |  |
| our. rotatio do   |  |   |   |   |  |   |   |  |   |  |
| LCS Sample ID: VLCSW-0  | 80907  |   |   |   | U  | nits: µg/L  |   | Analysis Da  | ite: 08/09  | /07 10:4   |
| Client 1D:  | Run I  | D: <b>VOA2_</b>                             | 070809A   | Si  | eqNo: <b>118</b>   | 7245  | Prep Date:  |  | DF: 1   |  |
|   |  |   |   | SPK Ref   |  | Control   | RPD Ref   |  | RPD   |  |
| Analyte   | Result   | MQL   | SPK Val   | Value   | %REC   | Limit   | Value   | %RPD   | Limit   | Qual   |
| 1,1-Dichloroethene  | 44.78  | 5.0   | 50  | 0   | 89.6   | 73-124  |   | 0  |   |  |
| Surr: 1,2-Dichloroethane-d4   | 49.13  | 5.0   | 50  | 0   | 98.3   | 70-125  |   | 0  |   |  |
| Surr: 4-Bromofluorobenzene  | 49.82  | 5.0   | 50  | 0   | 99.6   | 72-125  |   | 0  |   |  |
| Surr: Dibromofluoromethane  | 51.84  | 5.0   | 50  | 0   | 104  | 71-125  |   | 0  |   |  |
|   | 50.00  |   |   |   | 400  | 75 405  |   | ^  |   |  |
| Surr: Toluene-d8  | 50.88  | 5.0   | 50  | 0   | 102  | 75-125  |   | 0  |   |  |
|   |  | 5.0   | 50  | U   |  |   |   |  | ite: <b>08/09</b>                                   | /07 14:5   |
| MS Sample ID: 0708171-  | 33AMS  | 5.0<br>D: <b>VOA2_</b> _                    |   |   |  | nits: µg/L  | Prep Date:  | Analysis Da  | ite: <b>08/09</b><br>DF: <b>1</b>                   | /07 14:5   |
| MS Sample ID: 0708171-  | 33AMS  |   |   | Si  | U  | nits: µg/L  |   |  |   | /07 14:5   |
| MS Sample ID: 0708171-:<br>Client ID:   | 33AMS  |   |   |   | U  | nits: µg/L<br>7252  | Prep Date:  |  | DF: 1   | <b>/07 14:5</b><br>Qual  |
| MS Sample ID: 0708171-3 Client ID: Analyte  | 33AMS<br>Run I   | D: <b>VOA2_</b> !                           | 070809A   | Se<br>SPK Ref   | U<br>eqNo: <b>118</b> '  | nits: µg/L<br>7252<br>Control   | Prep Date:<br>RPD Ref   | Analysis Da  | DF: 1<br>RPD  |  |
| MS Sample ID: 0708171-3 Client ID: Analyte  | 33AMS<br>Run I<br>Result   | D: <b>VOA2_</b> I                           | <b>070809A</b><br>SPK Val   | SPK Ref<br>Value  | U<br>eqNo: 118°<br>%REC  | nits: µg/L<br>7252<br>Control<br>Limit  | Prep Date:<br>RPD Ref   | Analysis Da<br>%RPD                                  | DF: 1<br>RPD  | Qual   |
| MS Sample ID: 0708171-: Client ID: Analyte 1,1-Dichloroethene   | Run I<br>Result<br>35.82   | D: <b>VOA2_</b><br>MQL<br>5.0               | <b>070809A</b><br>SPK Val<br>50   | SPK Ref<br>Value  | U<br>eqNo: <b>118</b><br>%REC<br>71.6                                    | nits: µg/L<br>7252<br>Control<br>Limit<br>73-124  | Prep Date:<br>RPD Ref   | Analysis Da<br>%RPD                                  | DF: 1<br>RPD  | Qual   |
| MS Sample ID: 0708171-: Client ID:  Analyte  1,1-Dichloroethene  Surr: 1,2-Dichloroethane-d4  | Run I  Result  35.82  52.09  | D: <b>VOA2_</b><br>MQL<br>5.0<br>5.0        | 070809A<br>SPK Val<br>50<br>50  | SPK Ref<br>Value  | UeqNo: 118<br>%REC<br>71.6<br>104  | nits: µg/L<br>7252<br>Control<br>Limit<br>73-124<br>70-125  | Prep Date:<br>RPD Ref   | Analysis Da<br>%RPD<br>0                             | DF: 1<br>RPD  | Qual   |
| MS Sample ID: 0708171-; Client ID:  Analyte  1,1-Dichloroethene  Surr: 1,2-Dichloroethane-d4  Surr: 4-Bromofluorobenzene  | Result<br>35.82<br>52.09<br>49.26  | D: <b>VOA2_</b><br>MQL<br>5.0<br>5.0<br>5.0 | 50<br>50<br>50  | SPK Ref<br>Value<br>0<br>0  | UeqNo: 118<br>%REC<br>71.6<br>104<br>98.5                                | nits: µg/L<br>7252<br>Control<br>Limit<br>73-124<br>70-125<br>72-125                                    | Prep Date:<br>RPD Ref   | Analysis Da<br>%RPD<br>0<br>0                        | DF: 1<br>RPD  | Qual   |
| MS Sample ID: 0708171-; Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8  | Result  35.82  52.09  49.26  53.72  50.34                                | D: <b>VOA2_</b> MQL 5.0 5.0 5.0 5.0         | 50<br>50<br>50<br>50  | SPK Ref<br>Value  0 0 0 0   | UeqNo: 118  %REC  71.6  104  98.5  107  101                              | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125                                       | Prep Date:<br>RPD Ref<br>Value                                  | %RPD 0 0 0 0 0                                       | DF: 1<br>RPD<br>Limit                               | Qual<br>S  |
| MS Sample ID: 0708171-: Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8  MSD Sample ID: 0708171-:   | Result  35.82 52.09 49.26 53.72 50.34                                    | D: <b>VOA2_</b> MQL 5.0 5.0 5.0 5.0         | 50<br>50<br>50<br>50<br>50  | SPK Ref<br>Value  0 0 0 0   | UeqNo: 118  %REC  71.6  104  98.5  107  101                              | nits: µg/L<br>7252  Control<br>Limit  73-124  70-125  72-125  71-125  75-125  nits: µg/L                | Prep Date:<br>RPD Ref<br>Value                                  | %RPD 0 0 0   | DF: 1<br>RPD<br>Limit                               | Qual<br>S  |
| MS Sample ID: 0708171-: Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8  | Result  35.82 52.09 49.26 53.72 50.34                                    | D: <b>VOA2_</b> MQL 5.0 5.0 5.0 5.0 5.0     | 50<br>50<br>50<br>50<br>50  | SPK Ref<br>Value  0 0 0 0   | VeqNo: 118  %REC  71.6  104  98.5  107  101                              | nits: µg/L<br>7252  Control<br>Limit  73-124  70-125  72-125  71-125  75-125  nits: µg/L                | Prep Date:  RPD Ref  Value                                      | %RPD 0 0 0 0 0                                       | DF: 1 RPD Limit                                     | Qual<br>S  |
| MS Sample ID: 0708171-: Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708171-: Client ID:                               | Result  35.82 52.09 49.26 53.72 50.34                                    | D: <b>VOA2_</b> MQL 5.0 5.0 5.0 5.0 5.0     | 50<br>50<br>50<br>50<br>50  | SPK Ref<br>Value  0 0 0 0 0 Se  | VeqNo: 118  %REC  71.6  104  98.5  107  101                              | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125 nits: µg/L                            | Prep Date:  RPD Ref Value  . Prep Date:                         | %RPD 0 0 0 0 0                                       | DF: 1 RPD Limit  ate: 08/09. DF: 1                  | Qual<br>S  |
| MS Sample ID: 0708171-3 Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8  MSD Sample ID: 0708171-3 Client ID:  Analyte   | Result  35.82 52.09 49.26 53.72 50.34  33AMSD  Run I                     | MQL 5.0 5.0 5.0 5.0 5.0 5.0                 | SPK Val 50 50 50 50 50 070809A  | SPK Ref<br>Value  0 0 0 0 0 Second  | UeqNo: 118  %REC  71.6  104  98.5  107  101  UeqNo: 118                  | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125 nits: µg/L 7253  Control              | Prep Date:  RPD Ref Value  . Prep Date:  RPD Ref                | %RPD 0 0 0 0 0 Analysis Da                           | DF: 1  RPD Limit  te: 08/09.  DF: 1  RPD            | Qual<br>S<br>/07 15:1  |
| MS Sample ID: 0708171-3 Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8  MSD Sample ID: 0708171-3 Client ID:  Analyte   | Result  35.82 52.09 49.26 53.72 50.34  33AMSD  Run I                     | D: VOA2                                     | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50                                    | SPK Ref<br>Value  0 0 0 0 0 Sc SPK Ref                                      | UeqNo: 118*  %REC  71.6  104  98.5  107  101  UeqNo: 118*                | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125 nits: µg/L 7253  Control Limit        | Prep Date:  RPD Ref Value  . Prep Date:  RPD Ref Value          | %RPD 0 0 0 0 Analysis Da %RPD 32 9.76                | DF: 1  RPD Limit  ate: 08/09  DF: 1  RPD Limit      | Qual<br>S<br>/07 15:1  |
| MS Sample ID: 0708171-: Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708171-: Client ID:  Analyte  1,1-Dichloroethene  | Result  35.82  52.09  49.26  53.72  50.34  Run I  Result  39.49          | MQL 5.0 5.0 5.0 5.0 5.0 MQL D: VOA2         | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50            | SPK Ref Value  0 0 0 0 0 Set SPK Ref Value                                  | UeqNo: 118  %REC  71.6  104  98.5  107  101  UeqNo: 118  %REC  79        | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 71-125 75-125 nits: µg/L 7253  Control Limit 73-124 | Prep Date:  RPD Ref Value  . Prep Date:  RPD Ref Value  35.8    | %RPD 0 0 0 0 0 Analysis Da %RPD 32 9.76              | DF: 1 RPD Limit  tte: 08/09 DF: 1 RPD Limit         | Qual<br>S<br>/07 15:1  |
| MS Sample ID: 0708171-: Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Toluene-d8  MSD Sample ID: 0708171-: Client ID:  Analyte  1,1-Dichloroethene Surr: 1,2-Dichloroethane-d4 | Result  35.82 52.09 49.26 53.72 50.34  33AMSD  Run I  Result 39.49 52.55 | MQL 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0         | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5 | SPK Ref Value  0 0 0 0 0 SPK Ref Value  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | UeqNo: 118'  %REC  71.6  104  98.5  107  101  UeqNo: 118'  %REC  79  105 | nits: µg/L 7252  Control Limit 73-124 70-125 72-125 75-125 nits: µg/L 7253  Control Limit 73-124 70-125 | Prep Date:  RPD Ref Value  Prep Date:  RPD Ref Value  35.8 52.0 | %RPD 0 0 0 0 Analysis Da %RPD 32 9.76 99 0.886 61.47 | DF: 1 RPD Limit  tte: 08/09. DF: 1 RPD Limit  20 20 | Qual<br>S<br>/07 15:1  |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

QC BATCH REPORT

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

| Batch ID: R53324 Instrum    | nent ID VOA1 |                   | Metho  | d: <b>SW826</b> 0  | 0    |                  |            |            |                                       |                   |           |
|-----------------------------|--------------|-------------------|--|--|------|------------------|------------|------------|---------------------------------------|-------------------|-----------|
| MBLK Sample ID: VBLKW-      | -081307      |                   |  |  |      | Uı               | nits: µg/L |            | Analysis D                            | ate: <b>08/13</b> | /07 11:53 |
| Client ID:                  | Run I        | D: <b>VOA1_</b> ( | 07 <b>0</b> 813A   | ,  | Seq1 | No: 1188         | 3667       | Prep Date: |                                       | DF: <b>1</b>      |           |
|                             |              |                   |  | SPK Ref  |      |                  | Control    | RPD Ref    |                                       | RPD               |           |
| Analyte                     | Result       | MQL               | SPK Val  | Value  |      | %REC             | Limit      | Value      | %RPD                                  | Limit             | Qual      |
| 1,1-Dichloroethane          | U            | 5.0               |  |  |      |                  |            |            |                                       |                   |           |
| 1,1-Dichloroethene          | U            | 5.0               |  |  |      |                  |            |            |                                       |                   |           |
| 1,2-Dichloroethane          | U            | 5.0               |  |  |      |                  |            |            | · · · · · · · · · · · · · · · · · · · | ***               |           |
| cis-1,2-Dichloroethene      | U            | 5.0               |  |  |      |                  |            |            |                                       |                   |           |
| Tetrachloroethene           | U            | 5.0               |  |  | •    | -                |            |            |                                       |                   |           |
| Trichloroethene             | U            | 5.0               |  |  |      |                  |            |            |                                       |                   |           |
| Vinyl chloride              | U            | 2.0               | TOTAL ALAMAN AND THE STATE OF T | The state of the s |      |                  |            |            |                                       |                   |           |
| Surr: 1,2-Dichloroethane-d4 | 50.41        | 5.0               | 50   | 1  | 0    | 101              | 70-125     |            | 0                                     |                   |           |
| Surr: 4-Bromofluorobenzene  | 52.07        | 5.0               | 50   |  | 0    | 104              | 72-125     |            | 0                                     |                   |           |
| Surr: Dibromofluoromethane  | 52.56        | 5.0               | 50   | ı  | 0    | 105              | 71-125     |            | 0                                     |                   |           |
| Surr: Toluene-d8            | 53.27        | 5.0               | 50   | I  | 0    | 107              | 75-125     |            | 0                                     |                   |           |
| LCS Sample ID: VLCSW-       | 081307       |                   |  |  |      | Uı               | nits: µg/L |            | Analysis D                            | ate: 08/13        | /07 11:01 |
| Client ID:                  | Run I        | D: <b>VOA1_</b> I | 070813A  | ;  | SeqN | Vo: <b>118</b> 8 |            | Prep Date: |                                       | DF: <b>1</b>      |           |
|                             |              |                   |  | SPK Ref  |      |                  | Control    | RPD Ref    |                                       | RPD               |           |
| Analyte                     | Result       | MQL               | SPK Val  | Value  |      | %REC             | Limit      | Value      | %RPD                                  | Limit             | Qual      |
| 1,1-Dichloroethane          | 50.43        | 5.0               | 50   |  | ٥    | 101              | 76-120     |            | 0                                     |                   |           |
| 1,1-Dichloroethene          | 50.47        | 5.0               | 50   |  | 0    | 101              | 73-124     |            | 0                                     |                   |           |
| 1,2-Dichloroethane          | 52.18        | 5.0               | 50   | (  | 0    | 104              | 78-120     |            | 0                                     |                   |           |
| cis-1,2-Dichloroethene      | 49.8         | 5.0               | 50   |  | 0    | 99.6             | 78-120     |            | 0                                     |                   |           |
| Tetrachioroethene           | 50.26        | 5.0               | 50   |  | 0    | 101              | 79-120     |            | 0                                     |                   |           |
| Trichloroethene             | 48.8         | 5.0               | 50   |  | 0    | 97.6             | 80-120     |            | 0                                     |                   |           |
| Vinyl chloride              | 48.18        | 2.0               | 50   | (  | 0    | 96.4             | 74-122     |            | 0                                     |                   |           |
| Surr: 1,2-Dichloroethane-d4 | 52.86        | 5.0               | 50   | (  | 0    | 106              | 70-125     |            | 0                                     |                   |           |
| Surr: 4-Bromofluorobenzene  | 52.3         | 5.0               | 50   | (  | 0    | 105              | 72-125     |            | 0                                     |                   |           |
| Surr: Dibromofluoromethane  | 53.6         | 5.0               | 50   |  | 0    | 107              | 71-125     |            | 0                                     |                   |           |
|                             |              |                   |  |  |      |                  |            |            |                                       |                   |           |

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc, Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ERM Southwest, Inc.

Work Order:

0708118

Project:

Silber Rd

| Batch ID: R53324 Ins   | strument ID VOA1  |  | Metho  | d: <b>SW826</b>                         | 0                                      |   |   |   |   |   |                          |
|--|---|--|--|---|--|---|---|---|---|---|--------------------------|
| MS Sample ID: 0708   | 3118-07AMS  | e Mara e Mara Mara Mara da Antara   | *************************************** | *******                                | U   | nits: μ <b>g/</b> L   |   | Analysis Da   | ite: 08/13  | 07 16:59                 |
| Client ID: <b>Dup-1</b>  | Run II  | D: <b>VOA1_</b>  | 070813A  |   | Se                                     | qNo: <b>118</b> 8   | 8670  | Prep Date:  |   | DF: <b>1</b>                                      |                          |
|  |   |  |  | SPK Ref                                 |  |   | Control   | RPD Ref   |   | RPD   |                          |
| Analyte  | Result  | MQL  | SPK Val  | Value                                   |  | %REC  | Limit   | Value   | %RPD  | Limit   | Qual                     |
| 1,1-Dichloroethane   | 48.99   | 5.0  | 50   |   | 0                                      | 98  | 76-120  |   | 0   |   |                          |
| 1,1-Dichloroethene   | 27.32   | 5.0  | 50   |   | 0                                      | 54.6  | 73-124  |   | 0   |   | S                        |
| 1,2-Dichloroethane   | 53.96   | 5.0  | 50   |   | 0                                      | 108   | 78-120  |   | 0   |   |                          |
| cis-1,2-Dichloroethene   | 49.25   | 5.0  | 50   |   | 0                                      | 98.5  | 78-120  |   | 0   |   |                          |
| Tetrachioroethene  | 43.43   | 5.0  | 50   |   | 0                                      | 86.9  | 79-120  |   | 0   |   |                          |
| Trichloroethene  | 46.03   | 5.0  | 50   |   | .0                                     | 92.1  | 80-120  |   | 0   | •   |                          |
| Vinyl chloride   | 37.61   | 2.0  | 50   |   | 0                                      | 75.2  | 74-122  |   | 0   |   |                          |
| Surr: 1,2-Dichloroethane-d4  | 54.75   | 5.0  | 50   |   | 0                                      | 110   | 70-125  |   | 0   |   |                          |
|  | 54.07   | 5.0  | 50   |   | 0                                      | 104   | 72-125  |   | 0   |   |                          |
| Surr: 4-Bromofluorobenzene   | 51.87   | 0.0  |  |   |  |   |   |   |   |   |                          |
| Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane  | 57.87   | 5.0  | 50   |   | 0                                      | 106   | 71-125  |   | 0   |   |                          |
|  | <del></del>   |  | 50<br>50   |   | 0<br>0                                 | 106<br>103  | 71-125<br>75-125  |   | 0<br>0  |   |                          |
| Surr: Dibromofluoromethane<br>Surr: Toluene-d8   | 52.87<br>51.63  | 5.0  |  |   |  | 103   | 75-125  |   | 0   |   |                          |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708   | 52.87<br>51.63  | 5.0  |  |   |  | 103   |   |   | -   |   | /07 17:2£                |
| Surr: Dibromofluoromethane<br>Surr: Toluene-d8   | 52.87<br>51.63<br>8118-07AMSD   | 5.0  | 50   |   | 0                                      | 103   | 75-125<br>nits: μg/L  |   | 0   | ite: <b>08/13</b><br>DF: <b>1</b>                 | /07 17:25                |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708   | 52.87<br>51.63<br>8118-07AMSD   | 5.0<br>5.0   | 50   |   | 0                                      | <i>103</i><br>U   | 75-125<br>nits: μg/L  |   | 0   |   | /07 17:2 <del>8</del>    |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708   | 52.87<br>51.63<br>8118-07AMSD   | 5.0<br>5.0   | 50   |   | 0                                      | <i>103</i><br>U   | 75-125<br>nits: μg/L<br>8671  | Prep Date:  | 0   | DF: 1   | <b>/07 17:25</b><br>Qual |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708 Client ID: Dup-1  | 52.87<br>51.63<br>3118-07AMSD<br>Run II   | 5.0<br>5.0<br>D: <b>VOA1_</b> (  | 50<br>070813A  | SPK Ref<br>Value                        | 0                                      | 103<br>U<br>qNo: <b>118</b> 8   | 75-125<br>nits: μg/L<br>8671<br>Control   | Prep Date:  | Analysis Da<br>%RPD   | DF: 1<br>RPD                                      |                          |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MISD Sample ID: 0708 Client ID: Dup-1  Analyte  | 52.87<br>51.63<br>8118-07AMSD<br>Run II   | 5.0<br>5.0<br>D: <b>VOA1_</b> (  | 50<br>070813A<br>SPK Val   | SPK Ref<br>Value                        | 0<br>Sec                               | 103<br>U<br>qNo: 1186<br>%REC   | 75-125  nits: µg/L  8671  Control Limit   | Prep Date:<br>RPD Ref<br>Value  | Analysis Da<br>%RPD<br>9 4.08                                       | DF: 1<br>RPD<br>Limit                             |                          |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708 Client ID: Dup-1  Analyte 1,1-Dichloroethane  | 52.87<br>51.63<br>8118-07AMSD<br>Run II<br>Result<br>47.03  | 5.0<br>5.0<br>D: <b>VOA1_</b> I<br>MQL<br>5.0  | 50<br>070813A<br>SPK Val<br>50                                     | SPK Ref<br>Value                        | Sec<br>0                               | 103<br>U<br>qNo: 1189<br>%REC<br>94.1   | 75-125  nits: µg/L  8671  Control Limit  76-120   | Prep Date:<br>RPD Ref<br>Value<br>48.9                                    | %RPD<br>9 4.08<br>2 7.04  | DF: 1<br>RPD<br>Limit                             | Qual                     |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708 Client ID: Dup-1  Analyte  1,1-Dichloroethane 1,1-Dichloroethene  | 52.87<br>51.63<br>8118-07AMSD<br>Run II<br>Result<br>47.03<br>25.46                                     | 5.0<br>5.0<br>D: <b>VOA1_</b> I<br>MQL<br>5.0<br>5.0   | 50<br>070813A<br>SPK Val<br>50<br>50                               | SPK Ref<br>Value                        | 0<br>Sec<br>0<br>0                     | 103<br>U<br>qNo: 1186<br>%REC<br>94.1<br>50.9   | 75-125  nits: µg/L  8671  Control Limit  76-120  73-124   | Prep Date:<br>RPD Ref<br>Value<br>48.9<br>27.3                            | %RPD 9 4.08 2 7.04 6 2.34   | DF: 1 RPD Limit 20 20                             | Qual                     |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708 Client ID: Dup-1  Analyte  1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane   | 52.87<br>51.63<br>8118-07AMSD<br>Run II<br>Result<br>47.03<br>25.46<br>52.71                            | 5.0<br>5.0<br>D: <b>VOA1_</b> (<br>MQL<br>5.0<br>5.0<br>5.0  | 50<br>070813A<br>SPK Val<br>50<br>50<br>50                         | SPK Ref<br>Value                        | 0<br>Sec<br>0<br>0<br>0                | 103<br>UqNo: 1188<br>%REC<br>94.1<br>50.9<br>105  | 75-125  nits: µg/L  8671  Control Limit  76-120  73-124  78-120   | Prep Date:<br>RPD Ref<br>Value<br>48.9<br>27.3<br>53.9                    | %RPD 9 4.08 2 7.04 6 2.34 5 0.36                                    | DF: 1 RPD Limit 20 20 20                          | Qual                     |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708 Client ID: Dup-1  Analyte  1,1-Dichloroethane 1,2-Dichloroethane cis-1,2-Dichloroethene   | 52.87<br>51.63<br>8118-07AMSD<br>Run II<br>Result<br>47.03<br>25.46<br>52.71<br>49.43                   | 5.0<br>5.0<br>D: <b>VOA1_</b> 0<br>MQL<br>5.0<br>5.0<br>5.0  | 50<br>070813A<br>SPK Val<br>50<br>50<br>50<br>50                   | SPK Ref<br>Value                        | 0<br>Sec<br>0<br>0<br>0                | 103<br>UqNo: 1188<br>%REC<br>94.1<br>50.9<br>105<br>98.9                                | 75-125  nits: µg/L  8671  Control Limit  76-120  73-124  78-120  78-120                                 | Prep Date:  RPD Ref  Value  48.9  27.3  53.9  49.2                        | %RPD<br>9 4.08<br>2 7.04<br>6 2.34<br>5 0.36<br>3 2.01              | DF: 1  RPD Limit  20 20 20 20                     | Qual                     |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708 Client ID: Dup-1  Analyte 1,1-Dichloroethane 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene  | 52.87<br>51.63<br>8118-07AMSD<br>Run II<br>Result<br>47.03<br>25.46<br>52.71<br>49.43<br>42.57          | 5.0<br>5.0<br>D: <b>VOA1_</b> 0<br>MQL<br>5.0<br>5.0<br>5.0<br>5.0   | 50<br>070813A<br>SPK Val<br>50<br>50<br>50<br>50<br>50             | SPK Ref<br>Value                        | 0<br>0<br>0<br>0<br>0                  | 103<br>UqNo: 1184<br>%REC<br>94.1<br>50.9<br>105<br>98.9<br>85.1                        | 75-125  nits: µg/L  8671  Control Limit  76-120  73-124  78-120  78-120  79-120                         | Prep Date:  RPD Ref  Value  48.9  27.3  53.9  49.2  43.4                  | %RPD 9 4.08 2 7.04 6 2.34 5 0.36 3 2.01 3 4.59                      | DF: 1  RPD Limit  20 20 20 20 20 20 20            | Qual                     |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708 Client ID: Dup-1  Analyte  1,1-Dichloroethane 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloroethene   | 52.87<br>51.63<br>B118-07AMSD<br>Run II<br>Result<br>47.03<br>25.46<br>52.71<br>49.43<br>42.57<br>43.96 | 5.0<br>5.0<br>D: <b>VOA1_</b> I<br>MQL<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0  | 50<br>070813A<br>SPK Val<br>50<br>50<br>50<br>50<br>50             | SPK Ref<br>Value                        | 0<br>0<br>0<br>0<br>0<br>0             | 94.1<br>50.9<br>105<br>98.9<br>85.1<br>87.9   | 75-125  nits: µg/L  8671  Control Limit  76-120  73-124  78-120  78-120  79-120  80-120                 | Prep Date:  RPD Ref Value  48.9  27.3  53.9  49.2  43.4  46.0             | %RPD 9 4.08 2 7.04 6 2.34 5 0.36 3 2.01 3 4.59 1 2.31               | DF: 1  RPD Limit  20 20 20 20 20 20 20 20         | Qual<br>S                |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708 Client ID: Dup-1  Analyte 1,1-Dichloroethane 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride   | 52.87<br>51.63<br>B118-07AMSD  Run II  Result  47.03  25.46  52.71  49.43  42.57  43.96  36.75          | 5.0<br>5.0<br>D: <b>VOA1_I</b><br>MQL<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0   | 50<br>070813A<br>SPK Val<br>50<br>50<br>50<br>50<br>50<br>50       | SPK Ref<br>Value                        | 0<br>0<br>0<br>0<br>0<br>0             | 94.1<br>50.9<br>105<br>98.9<br>85.1<br>87.9<br>73.5                                     | 75-125  nits: µg/L  8671  Control Limit  76-120  73-124  78-120  78-120  79-120  80-120  74-122         | Prep Date:  RPD Ref Value  48.9  27.3  53.9  49.2  43.4  46.0  37.6       | %RPD 9 4.08 2 7.04 6 2.34 5 0.36 3 2.01 3 4.59 1 2.31 5 .1.9        | DF: 1  RPD Limit  20 20 20 20 20 20 20 20 20      | Qual<br>S                |
| Surr: Dibromofluoromethane Surr: Toluene-d8  MSD Sample ID: 0708 Client ID: Dup-1  Analyte  1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Trichloroethene Vinyl chloride Surr: 1,2-Dichloroethane-d4 | 52.87<br>51.63<br>B118-07AMSD  Run II  Result  47.03 25.46 52.71 49.43 42.57 43.96 36.75 53.72          | 5.0<br>5.0<br>D: VOA1_0<br>MQL<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0                                  | 50<br>070813A<br>SPK Val<br>50<br>50<br>50<br>50<br>50<br>50<br>50 | SPK Ref<br>Value                        | 0<br>Sec<br>0<br>0<br>0<br>0<br>0<br>0 | 103<br>UqNo: 1188<br>%REC<br>94.1<br>50.9<br>105<br>98.9<br>85.1<br>87.9<br>73.5<br>107 | 75-125  nits: µg/L  8671  Control Limit  76-120  73-124  78-120  78-120  79-120  80-120  74-122  70-125 | Prep Date:  RPD Ref Value  48.9  27.3  53.9  49.2  43.4  46.0  37.6  54.7 | %RPD 9 4.08 2 7.04 6 2.34 5 0.36 3 2.01 3 4.59 1 2.31 5 1.9 7 0.484 | DF: 1 RPD Limit  20 20 20 20 20 20 20 20 20 20 20 | Qual<br>S                |

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



10450 Stancliff Rd. #210 Houston, Texas 77099 (Tel) 281.530.5656 e-Lab Analytical, Inc. (Fax) 281.530.5887 Ā

# Chain of Custody Form

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Holland, Michigan 49424 e-Lab Analytical, Inc. 3352 128th Avenue (Fux) 616.399,6185 (Tel) 616,399,6070 

The Chain of Custody is a Legal Document. All information must be completed accurately.

ABOQUIE Dust Dates of the state GOC Packages (Check One Box Berow) 是是不多。 A PIONIS ☐ TRRP Checklist
☐ TRRP Level IV 译等等等的文字表示是是是是D.P.Djectinianageria 是来来多多是是是是是是对对,是一个Lab.Work order并没是OTBS 1000 10 de 1 Parameter/Method Request for Analysis manya wa a sepaga ministra Gerello Ger □ Level III Std QC/Raw Data ☐ Level IV SWB46/CLP ☐ Other 🗌 Level II Std QC re-Leb Arafytical Pertrip Blanks a percentage pass resembling as たっと S. T. C. S. ŽШ ±81.00 α Ε∓**Π**19.00  $(\mathcal{N})$ Comeron Iron Worlds --Project Information H10 5001 1438 1343 1544 15. 0,113 8 (1 三 充 Shipment Method ABIII COMPANA ABIII COMPANA 新学校表表系表表演 \* E-Wall Address Polect 08/02/01-Time: 15810 PARK TEN PLAKE Dale **Customer Information** (Committee of the state of the Sammer(s)-Please Print & Signar TES TOS F8080297 MW- 126 MW- [4] ThI . MW \*\*Connaintential Connaintential Conn mw - 43 MW- 147 \*\*\*\*Work Order CIN/State/Zip Purchase Order 0 mg -1 Refinfluishector Refinquished by: क हे के ह 4**00** क ह 京ルタな品( 64 年 10 mm 年 10 年 日本学を表する事 

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

2. Uniess otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

Copyright 2006 by e-Lab Analytical, Inc.

# Sample Receipt Checklist

| Client Name: ERMSW-HOU   |                          | Date/Time Received: 8/3/2007 9:40:00 AM     |
|--|--------------------------|---|
| Work Order Number 0708118  |                          | Received by: PS                             |
| Signature  | (o·07                    | Reviewed by H & + O + Date                  |
| Matrix: Carrier nan  | ne: <u>E-Lab</u>         |   |
| Shipping container/cooler in good condition?   | Yes 🗹                    | No ☐ Not Present ☐                          |
| Gustody seals Intact on shipping container/cooler?   | Yes 🗌                    | No Not Present                              |
| Custody seals intact on sample bottles?  | Yes                      | No D Not Present                            |
| Chain of custody present?  | Yes 🔽                    | No 1 0 1 0 0 6 10 7 1                       |
| Chain of custody signed when refinquished and received?  | Yes                      | NO 1 COC not relinguished 8/6/0717          |
| Chain of custody agrees with sample labels?  | Yes 🗹                    | No 🗀  |
| Samples in proper container/bottle?  | Yes 🗸                    | No 🗀  |
| Sample containers intact?  | Yes 🗹                    | No 🗔  |
| Sufficient sample volume for indicated test?   | Yes 🗹                    | No □  |
| All samples received within holding time?  | Yes 🗹                    | No 🗆  |
| Container/Temp Blank temperature in compliance?  | Yes 🗹                    | No 🗀  |
| Temperature(s)/Thermometer(s):   | 3.8c                     | 002   |
| Water - VOA vials have zero headspace?   | Yes 🗹                    | No ☐ No VOA vials submitted ☐               |
| Waler - pH acceptable upon receipt?  | Yes 🗌                    | No □ N/A 🗹                                  |
| Adjusted?  | Che                      | sked by                                     |
| Login Notes: <u>Trip blank not on COC; logged in without analy projects; trip blank split between both jobs.</u> | ysis. Trip also receive  | d in single cooler that hosted two separate |
| projects, trip brank spin between born jobs.   |                          |   |
|  |                          |   |
|  | DE PORT MINOS MANN 11-10 |   |
|  | - ا - ا هم               | A1 D  |
| Client contacted: Date contacted;  | 817/07                   | Person contacted Marcel                     |
| Contacted by: Regarding:   | nalyjis                  |   |
| Comments: Project is Silber  | · Rd fal                 | wst B                                       |
| 0  |                          | `   |
|  |                          |   |
|  |                          |   |
| Corrective Action  |                          |   |
|  |                          |   |
|  |                          |   |
|  |                          |   |

### Attachment 2-3

Data Usability Summary and Laboratory Report (0708641)
Third Quarter Ground Water Sampling Event

Former Cameron Iron Works Facility
Houston, Texas

Environmental Resources Management (ERM) reviewed a laboratory analytical data package (0708641) from e-Lab Analytical, Inc. of Houston, Texas for the analysis of one (1) ground water sample collected on August 28, 2007 at the Former Cameron Iron Works Site in Houston, Texas (the facility). Data were reviewed to assess conformance with the requirements of the *Review and Reporting of COC Concentration Data* TRRP-13 (December 2002), and adherence to project data quality objectives.

**Purpose of Sampling Event:** Sampling was performed to confirm a reported concentration of trichloroethene (TCE) for the Third Quarter Sampling Event at MW-70.

The data generated were evaluated in terms of representativeness, precision, accuracy, completeness and comparability.

Analyses requested included:

• SW-846 8260B – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) – Trichloroethene (TCE).

Data were reviewed and validated as described in the TRRP-13 Guidance Document and the results of the review/validation are discussed in this Data Usability Summary (DUS).

### INTRODUCTION

One (1) ground water sample was provided to the laboratory for analysis and was analyzed for TCE. Table 1 lists the sample identification cross-referenced to laboratory identification.

### DATA REVIEW/VALIDATION RESULTS

### **Analytical Results**

The sample data are reported in mg/L for ground water. *Not Detected* results are reported as less than the value of the sample quantitation limit as defined by the TRRP rule. Method detection limits (MDLs) and method quantitation limits (MQLs) were also provided as part of the analytical results.

### **Preservation and Holding Times**

The sample was evaluated for agreement with the chain-of-custody. The sample was received in the appropriate container and in good condition with the paperwork filled out properly. Sample receipt temperature (3.4  $^{\circ}$ C) was within the acceptance criteria of 4 ± 2  $^{\circ}$ C. The sample

was preserved in the field as specified in SW-846 Table 2-36. The sample was prepared and analyzed within holding time as specified in SW-846 Table 2-36.

### Calibrations and Tunes

Initial and continuing calibration verification was within method acceptance limits for VOC. The LRC also documents satisfactory instrument performance calibrations (GC/MS tunes) for VOC analyses.

### Blanks

TCE was reported as *Not Detected* in the method blank. Field blanks were not collected during this sampling event and trip blanks were not submitted with this laboratory package.

### **Surrogate Recoveries**

Sample surrogate recoveries for TCE were within the TRRP defined acceptance limits.

### **Internal Standards**

According to the LRC, the internal standards were within method-required limits.

### **Laboratory Control Samples**

The laboratory control sample recoveries for TCE met the TRRP defined acceptance limits for VOCs.

## Matrix Spike/Matrix Spike Duplicates

Batch R53891 matrix spike/matrix spike duplicate (MS/MSD) recoveries were within the TRRP defined acceptance limits for VOCs.

### Field Precision

Field duplicate samples were not collected during this sampling event.

### **Field Procedures**

The samples were collected using documented sampling procedures.

### **SUMMARY**

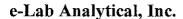
The data quality objectives and characteristics (i.e., representativeness, precision and accuracy, completeness, and comparability) for the project were met. Therefore, the ground water analytical data are useable for the purpose of providing current data on concentrations of chemicals of concern (COCs) in the ground water beneath and downgradient of the Former Cameron Iron Works Facility.

# **TABLE 2-3-1**

# Qualified Analytical Data Third Quarter Ground Water Sampling Event

# Former Cameron Iron Works Facility Houston, Texas

| Field ID   | Laboratory ID |
|------------|---------------|
| 0708641-01 | MW-70         |





10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 (281) 530-5656 Fax (281) 530-5887

August 30, 2007

Greg Wheeler ERM Southwest, Inc. 15810 Park Ten Place Suite 300 Houston, TX 77084

Tel: (281) 600-1000 Fax: (281) 600-1001

Re: Former Cameron Iron Works Work Order: 0708641

Dear Greg Wheeler,

e-Lab Analytical, Inc. received 1 sample on 8/29/2007 11:25 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

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

Sincerely,

Electronically approved by: Rebecca L. Hunt

Lora Terrill

Lora Terrill

**VP Lab Operations** 



Certificate No: T104704231-06-TX

CLIENT:

ERM Southwest, Inc.

Project:

Former Cameron Iron Works

Work Order:

0708641

TRRP Laboratory Data

Date: August 30, 2007

Package Cover Page

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c)The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;?
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [NA] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

# Lora Terrill

Lora Terrill

VP Lab Operations

| <b></b>        |   | Laboratory Review Cl   | necklist: Reportable Data                 |  |          |   |                 |   |
|----------------|---|--|---|--|----------|---|-----------------|---|
| Lab            | orato   | y Name: e-Lab Analytical, Inc.   | LRC Date: 08/30/2007                      |  |          |   |                 |   |
| Proj           | ect N   | ame: Former Cameron Iron Works   | Laboratory Job Number: 0708641            |  |          |   |                 |   |
| <del></del>    |   | Name: Lora Terrill   | Prep Batch Number(s): R53891              |  |          |   |                 |   |
| # <sup>1</sup> | A <sup>2</sup>  | Description  |   | Yes  | No       | NA <sup>3</sup>   | NR <sup>4</sup> | ER# <sup>5</sup>                        |
| R1             | OI  | CHAIN-OF-CUSTODY (C-O-C)   |   | 700  | 1.10     | 112   |                 |   |
| l Ki           | OI.   |  | of remule acceptability amon receipt?     | v  |          | N. C. S. C. | 1000000         | CHEENING:                               |
|                |   | <ol> <li>Did samples meet the laboratory's standard conditions</li> <li>Were all departures from standard conditions describe</li> </ol>   |   | $\frac{X}{X}$  | -        |   |                 |   |
| <u> </u>       | <u> </u>  |  |   | A  |          | 10.57.5   |                 |   |
| R2             | OI  | SAMPLE AND QUALITY CONTROL (QC) IDENT  | views                                     | 1949114  | 10000    | 100010  | 1888348         |   |
| ]              |   | 1) Are all field sample ID numbers cross-referenced to the   |   | X  |          |   | <u> </u>        |   |
| <u></u>        | 0.7   | 2) Are all laboratory ID numbers cross-referenced to the   | corresponding QC data?                    | X  | 20,1310  | 100000000   | 12 12 C VA      | 14.5.5.5.55                             |
| R3             | OI  | TEST REPORTS   |   | NAME OF THE PERSON OF THE PERS | With the |   |                 | 0.000                                   |
| [              |   | 1) Were all samples prepared and analyzed within holding   |   | $\frac{X}{X}$  |          | ļ   |                 |   |
|                | <ul><li>2) Other than those results &lt; MQL, were all other raw values bracketed by calibration standards'</li><li>3) Were calculations checked by a peer or supervisor?</li></ul> |  |   |  |          |   |                 |   |
|                |   |  |   |  |          |   | <u> </u>        |   |
|                | 4) Were all analyte identifications checked by a peer or supervisor?  |  |   |  |          | ļ   | <u> </u>        |   |
|                |   | 5) Were sample quantitation limits reported for all analy  |   | X  | _        |   |                 |   |
|                |   | 6) Were all results for soil and sediment samples reporte  |   |  |          | X   | <u> </u>        | ļ                                       |
|                |   | 7) Was % moisture (or solids) reported for all soil and see  | diment samples?                           |  |          | X   | <u> </u>        |   |
| <u> </u>       |   | 8) If required for the project, TICs reported?   |   |  |          | X   |                 |   |
| R4             | 0   | SURROGATE RECOVERY DATA  |   | Village Control  |          |   | History         | Antonia                                 |
|                |   | Were surrogates added prior to extraction?   |   | X  |          |   | <u> </u>        |   |
| <u> </u>       |   | 2) Were surrogate percent recoveries in all samples with   |   | X  |          | 12  |                 |   |
| R5             | Ol  | TEST REPORTS/SUMMMARY FORMS FOR BLAI   | NK SAMPLES                                | 10000  | 12502    | 180500  |                 |   |
|                |   | 1) Were appropriate type(s) of blanks analyzed?  |   | X  |          |   |                 |   |
|                |   | 2) Were blanks analyzed at the appropriate frequency?  |   | X  |          |   |                 | ļ                                       |
|                |   | 3) Were method blanks taken through the entire analytic  | al process, including preparation and, if | X  |          |   |                 | -                                       |
|                |   | applicable, cleanup procedures?  |   |  |          | _   |                 |   |
|                | <del> </del>  | 4) Were blank concentrations < MQL?  |   | X  | 1        | 1000121   | 1 10 10 10 10   |   |
| R6             | OI  | LABORATORY CONTROL SAMPLES (LCS):  |   | 100101100  | Barrie   | 400000  | -mana           |   |
|                |   | 1) Were all COCs included in the LCS?  |   | X  | <u> </u> |   |                 |   |
|                |   | 2) Was each LCS taken through the entire analytical proc   | edure, including prep and cleanup steps?  | X  | ļ        |   | ļ               |   |
|                |   | 3) Were LCSs analyzed at the required frequency?   |   | X  | <u> </u> | ļ   | ļ               | ļ                                       |
|                |   | 4) Were LCS (and LCSD, if applicable) %Rs within the l   |   | X  | <u> </u> | <u> </u>  |                 |   |
|                |   | 5) Does the detectability data document the laboratory's   | capability to detect the COCs at the MDL  | X  |          |   |                 |   |
|                |   | used to calculate the SQLs?  |   |  |          |   |                 |   |
| D.5            |   | 6) Was the LCSD RPD within QC limits?  | ICAME (MCD) DAMA                          | 10000000   | 100000   | X   |                 | 111100000000                            |
| R7             | OI  | MATRIX SPIKE (MS) AND MATRIX SPIKE DUPI  |   | 37   | 9334     | 19810   | 100000          |   |
|                |   | 1) Were the project/method specified analytes included i   |   | X  | ļ        | <u> </u>  |                 |   |
|                |   | 2) Were MS/MSD analyzed at the appropriate frequency   |   | X  |          | ļ   | ļ               |   |
|                |   | 3) Were MS (and MSD, if applicable) %Rs within the la  | boratory QC limits?                       | X  | -        | -   |                 |   |
| De             | OŤ  | 4) Were MS/MSD RPDs within laboratory QC limits?   |   | X  | 1000000  | 313.194   | d feet feet     | digira sais                             |
| R8             | OI  | ANALYTICAL DUPLICATE DATA  | . 1                                       | (20)(190)  | HASHIN.  | 77  | 4000000         | 10000000                                |
|                |   | 1) Were appropriate analytical duplicates analyzed for each of the state of the sta |   | _  | _        | X   |                 |   |
|                |   | 2) Were analytical duplicates analyzed at the appropriate  |   |  | ├        |   |                 |   |
| 720            | OT  | 3) Were RPDs or relative standard deviations within the  | laboratory QC limits?                     | 434300   |          | X   |                 |   |
| R9             | OI  | METHOD QUANTITATION LIMITS (MQLS):   | and in the Jahanatam data as also an      | 140-1400<br>TV   | 100.0000 | 1 1000000   | 1000000         | 10.000000000000000000000000000000000000 |
|                |   | 1) Are the MQLs for each method analyte listed and include 1) Do the MQLs correspond to the corresponding of the left.   |   | X  | -        | $\vdash$  | _               |   |
|                |   | 2) Do the MQLs correspond to the concentration of the le   |   | X  |          |   | ļ               |   |
| D10            | OI  | 3) Are unadjusted MQLs included in the laboratory data   | раскадел                                  | X  | 1000000  | 1   | 1               |   |
| KIU            | 01  | OTHER PROBLEMS/ANOMALIES   | noted in this LDC JED9                    | 37   | l waster |   | 1               | 11141011                                |
| 1              |   | 1) Are all known problems/anomalies/special conditions   |   | X  | -        | <u> </u>  | <del> </del>    | <del> </del>                            |
|                |   | 2) Were all necessary corrective actions performed for the   | -   | X  | -        | _   | -               |   |
| <u> </u>       | +   | 3) If requested, is the justification for elevated SQLs doc  | umemed?                                   | X  | -        | -   | -               |   |

Items identified by the letter "R" should be included in the laboratory data package submitted in o the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

<sup>3</sup> NA = Not applicable;

NR = Not Reviewed;

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

|                |        | Laboratory Review Ch   | necklist: Supporting Data                  |   | ····                                    |  |                     |  |
|----------------|--------|--|--|---|---|--|---------------------|--|
| Lab            | orate  | ry Name: e-lab Analytical, Inc                                 | RC Date: 08/30/2007                        |   |   |  |                     |  |
| Pro            | ject N | Name: Former Cameron Iron Works                                | aboratory Job Number: 0708641              |   |   |  |                     |  |
| Rev            | iewe   | r Name: Lora Terrill P.  | rep Batch Number(s): R53891                |   |   |  |                     |  |
| # <sup>1</sup> | $A^2$  | Description  |  | Yes   | No                                      | NA <sup>3</sup>  | NR <sup>4</sup>     | ER# <sup>5</sup>                         |
| SI             | ΟĪ     | INITIAL CALIBRATION (ICAL)                                     |  |   |   | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |                     |  |
| 31             | O.     | 1) Were response factors (RFs) and/or relative response fac    | tore (RREs) for each analyte within the OC | X   | 10000000                                | 4000 CO  | rancon lagricany    | 20 Ada -conc                             |
|                |        | limits?  |  |   |   |  |                     |  |
|                |        | 2) Were percent RSDs or correlation coefficient criteria me    |  | X   |   |  |                     |  |
|                |        | 3) Was the number of standards recommended in the method       |  | X   |   |  |                     |  |
|                | ŀ      | 4) Were all points generated between the lowest and highes     | st standard used to calculate the curve?   | X   |   |  |                     |  |
|                |        | 5) Are ICAL data available for all instruments used?           |  | X   |   |  |                     |  |
|                |        | 6) Has the initial calibration curve been verified using an ap |  | X   |   |  |                     |  |
| S2             | OI     | INITIAL AND CONTINUING CALIBRATION VER                         |  |   |   | 110,100,1100,<br>110,000,23,000  |                     |  |
|                |        | 1) Was the CCV analyzed at the method-required frequency       |  | X   |   |  |                     |  |
|                |        | 2) Were percent differences for each analyte within the met    | thod-required QC limits?                   | Х   |   |  |                     |  |
|                |        | 3) Was the ICAL curve verified for each analyte?               |  | X   |   |  |                     |  |
|                |        | 4) Was the absolute value of the analyte concentration in th   | e inorganic CCB < MDL?                     |   |   | X  |                     |  |
| S3             | O      | MASS SPECTRAL TUNING:  |  | eena,   | AREA CO                                 | N. 122   |                     |  |
|                |        | 1) Was the appropriate compound for the method used for t      | tuning?                                    | X   |   |  |                     |  |
| ŀ              |        | 2) Were ion abundance data within the method-required QC       | C limits?                                  | Χ   |   |  |                     |  |
| S4             | О      | INTERNAL STANDARDS (IS):                                       |  |   |   |  |                     |  |
|                |        | Were IS area counts and retention times within the method-     | -required QC limits?                       | X   |   |  |                     |  |
| S5             | OI     | RAW DATA (NELAC SECTION 1 APPENDIX A O                         |  | CONTRACTOR OF THE PARTY OF THE |   |  |                     | a desa                                   |
|                |        | 1) Were the raw data (e.g., chromatograms, spectral data) re   |  | Х   |   |  |                     |  |
|                |        | 2) Were data associated with manual integrations flagged o     |  | Х   |   |  |                     |  |
| S6             | 0      | DUAL COLUMN CONFIRMATION                                       |  | TENE  |   |  |                     | a sass                                   |
|                |        | Did dual column confirmation results meet the method-requ      | uired OC?                                  |   |   | X  |                     |  |
| S7             | O      | TENTATIVELY IDENTIFIED COMPOUNDS (TICS):                       |  |   |   |  |                     |  |
|                |        | If TICs were requested, were the mass spectra and TIC data     |  |   |   | X  |                     |  |
| S8             | 1      | INTERFERENCE CHECK SAMPLE (ICS) RESULTS                        |  | 100000  |   | i de la companione de l | in property and     |  |
|                |        | Were percent recoveries within method QC limits?               | ·  |   |   | X  |                     |  |
| S9             | I      | SERIAL DILUTIONS, POST DIGESTION SPIKE                         | S. AND METHOD OF STANDARD                  |   | 1000                                    |  | anaregi ve          | £ 2514.503                               |
|                |        | Were percent differences, recoveries, and the linearity with   |  |   |   | Х  |                     |  |
| S10            | OI     | PROFICIENCY TEST REPORTS:                                      |  |   | 200                                     |  | 20.511.00.00        |  |
|                |        | Are proficiency testing or inter-laboratory comparison resu    | lts on file?                               | Х   |   | 11,121,110,110   |                     |  |
| S11            | OI     | METHOD DETECTION LIMIT (MDL) STUDIES                           |  | 01884   | LANGE A                                 | HISCHAN<br>HARPING   | 1271 (1200)         |  |
|                |        | 1) Was a MDL study performed for each reported analyte?        |  | Х   |   |  |                     |  |
|                |        | 2) Is the MDL either adjusted or supported by the analysis     | of DCSs?                                   | X   |   |  |                     | +  |
| S12            | Οī     | STANDARDS DOCUMENTATION  |  | CONTRACTOR<br>CONTRACTOR  | HES XI                                  |  | SAMES YOU           |  |
|                |        | Are all standards used in the analyses NIST-traceable or ob    | tained from other appropriate sources?     | X   |   |  |                     |  |
| S13            | OI     | COMPOUND/ANALYTE IDENTIFICATION PROCE                          |  |   | receivers                               |  | 250 2600 200        |  |
|                |        | Are the procedures for compound/analyte identification do      |  | X   | 1000,000,000                            | H1017701745014   | 11 3400 9440 3 1003 | ALL COLUMNIA                             |
| S14            | Οĭ     | DEMONSTRATION OF ANALYST COMPETENCY (                          |  | 753550  | Salah sa                                | 11.25.15.15.15.15.15.15.15.15.15.15.15.15.15   |                     | # (7) (B)                                |
|                | T -    | 1) Was DOC conducted consistent with NELAC 5C or ISO           |  | X   | A CONSTRUCTION                          |  |                     | 12-12-12-12-12-12-12-12-12-12-12-12-12-1 |
|                |        | 2) Is documentation of the analyst's competency up-to-date     |  | X   |   |  |                     | +  |
| S15            | OI     | VERIFICATION/VALIDATION DOCUMENTATION                          |  |   | WWW.                                    | A3121743   | 2234040             |  |
| 2.7            | , .    | Are all the methods used to generate the data documented       |  | X   | 100000000000000000000000000000000000000 | Town States  | and the second      | 10 (1017) (100                           |
|                |        | (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?                 |  | <i>^</i> \  |   |  |                     |  |
| S16            | OI     | LABORATORY STANDARD OPERATING PROCED                           |  |   |   |  |                     |  |
|                |        | Are laboratory SOPs current and on file for each method pe     | erformed?                                  | X   |   |  |                     |  |

<sup>1</sup> Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

<sup>3</sup> NA = Not applicable.

<sup>4</sup> NR = Not Reviewed.

<sup>5</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

|                  | Laboratory Re                     | eview Checklist: Exception Report |  |
|------------------|-----------------------------------|-----------------------------------|--|
| Laborat          | tory Name: e-Lab Analytical, Inc. | LRC Date: 08/30/2007              |  |
| Project          | Name: Former Cameron Iron Works   | Laboratory Job Number: 0708641    |  |
| Review           | er Name: Lora Terrill             | Prep Batch Number(s): R53891      |  |
| ER# <sup>J</sup> | DESCRIPTION No Exceptions.        |                                   |  |

<sup>1</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

CLIENT: ERM Southwest, Inc.

Project: Former Cameron Iron Works
Work Order: 0708641

Work Order Sample Summary

<u>Lab Samp ID Client Sample ID Matrix Tag Number Collection Date Date Received Hold</u>

0708641-01 MW-70 Water 8/28/2007 16:30 8/29/2007 11:25

Date: August 30, 2007

CLIENT:

ERM Southwest, Inc.

Work Order:

0708641

Project:

Former Cameron Iron Works

Lab ID:

0708641-01

Date: August 30, 2007

Client Sample ID: MW-70

Collection Date: 8/28/2007 4:30:00 PM

| Analyses                    | Result Qual | SDL           | MQL    | Units | Dilution<br>Factor | Date Analyzed |
|-----------------------------|-------------|---------------|--------|-------|--------------------|---------------|
| TCL VOLATILE ORGANICS       | Me          | ethod: SW8260 |        |       |                    | Analyst: PC   |
| Trichloroethene             | 0.0064      | 0.00070       | 0.0050 | mg/L  | 1                  | 8/29/2007     |
| Surr: 1,2-Dichloroethane-d4 | 89.5        |               | 70-125 | %REC  | 1                  | 8/29/2007     |
| Surr: 4-Bromofluorobenzene  | 98.7        |               | 72-125 | %REC  | 1                  | 8/29/2007     |
| Surr: Dibromofluoromethane  | 96.3        |               | 71-125 | %REC  | 1                  | 8/29/2007     |
| Surr: Toluene-d8            | 108         |               | 75-125 | %REC  | 1                  | 8/29/2007     |

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

P - Dual Column results RPD > 40%

E - Value above quantitation range

Date: Aug 30, 2007

**METHOD DETECTION /** 

**REPORTING LIMITS** 

Test Code:

8260\_TCL\_W

Test Number:

SW8260

Test Name:

TCL Volatile Organics

Matrix:

Aqueous

Units: mg/L

| 14141117 | Aqueous Omis. mg/L          |            |        |                |
|----------|-----------------------------|------------|--------|----------------|
| Туре     | Analyte                     | CAS        | MDL    | Unadjusted MQL |
| A        | Trichloroethene             | 79-01-6    | 0.0007 | 0.005          |
| S        | Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 0      | 0              |
| S        | Surr: 4-Bromofluorobenzene  | 460-00-4   | 0      | 0              |
| S        | Surr: Dibromofluoromethane  | 1868-53-7  | 0      | 0              |
| S        | Surr: Toluene-d8            | 2037-26-5  | 0      | 0              |

CLIENT:

ERM Southwest, Inc.

Work Order:

0708641

O - Referenced analyte value is > 4 times amount spiked

Project:

Former Cameron Iron Works

Date: Aug 30 2007

# QC BATCH REPORT

| MBLK Sample ID: VBLKW-082907  | -                                       |   |   |  | U  | nits: µg/L   |  | Analysis Da                               | ite: <b>08/29</b>                                | 07 18:48 |
|---|---|---|---|--|--|--|--|---|--|----------|
| Client ID:  | Run                                     | ID: VOA1_                               | 070829A   | 5  | SeqNo: <b>119</b>                          |  | Prep Date:   | -   | DF: <b>1</b>                                     |          |
| Analyte   | Result                                  | MQL                                     | SPK Val   | SPK Ref<br>Value   | %REC                                       | Control<br>Limit   | RPD Ref<br>Value                                   | %RPD                                      | RPD<br>Limit                                     | Qual     |
| Trichloroethene   | U                                       | 5.0                                     |   |  |  |  |  |   |  |          |
| Surr: 1,2-Dichloroethane-d4   | 43.99                                   | 5.0                                     | 50  |  | D 88                                       | 70-125   | ,  | 0   |  |          |
| Surr: 4-Bromofluorobenzene  | 47.7                                    | 5.0                                     | 50  |  | 95.4                                       | 72-125   |  | 0   |  |          |
| Surr: Dibromofluoromethane  | 46.54                                   | 5.0                                     | 50  |  |  | 71-125   |  | 0   |  |          |
| Surr: Toluene-d8  | 51.31                                   | 5.0                                     | 50  | (  | 103  | 75-125   |  | 0   |  |          |
| LCS Sample ID: VLCSW-082907   |   |   |   | WITH TOWN TO THE TAX T |  | nito:  |  | Applysis De                               | +c : 00/00                                       | 07.47.50 |
| •   | D. m                                    | ID: 1/0.64                              | 0700004   | ,  |  | nits: µg/L   |  | Analysis Da                               |  | 07 17:58 |
| Client ID:  | Run                                     | ID: VOA1_                               | 0/0829A   | ;  | SeqNo: <b>119</b> :                        | 9985   | Prep Date:   |   | DF: 1  |          |
|   |   |   |   | SPK Ref<br>Value   |  | Control<br>Limit   | RPD Ref<br>Value                                   |   | RPD<br>Limit                                     |          |
| Analyte   | Result                                  | MQL                                     | SPK Val   | value  | %REC                                       | LIIIII   | value  | %RPD                                      |  | Qual     |
| Trichloroethene   | 48.74                                   | 5.0                                     | 50  | (  | 97.5                                       | 80-120   |  | 0   |  |          |
| Surr: 1,2-Dichloroethane-d4   | 44.87                                   | 5.0                                     | 50  | (  | 89.7                                       | 70-125   |  | 0   |  |          |
| Surr: 4-Bromofluorobenzene  | 50.36                                   | 5.0                                     | 50  | (  | ) 101                                      | 72-125   |  | 0   |  |          |
| Surr: Dibromofluoromethane  | 47.44                                   | 5.0                                     | 50  | (  |  | 71-125   |  | 0   |  |          |
| Surr: Toluene-d8  | 52.76                                   | 5.0                                     | 50  | (  | 106  | 75-125   |  | 0   |  |          |
| MS Sample ID: 0708515-28AMS   |   |   |   |  | U  | nits: µg/L   | •  | Analysis Da                               | ite: 08/29/                                      | 07 20:04 |
| Client ID:  | Run I                                   | D: <b>VOA1_</b>                         | 070829A   | 5  | SeqNa: <b>119</b> :                        | 9988   | Prep Date:   |   | DF: <b>5</b>                                     |          |
|   |   | _                                       |   | SPK Ref  | ,  |  | •  |   | RPD  |          |
| Analyte   | Result                                  | MQL                                     | SPK Val   | Value  | %REC                                       | Control<br>Limit   | RPD Ref<br>Value                                   | %RPD                                      | Limit  | Qual     |
|   |   |   |   |  |  |  |  |   |  |          |
| Trichloroethene   | 359.7                                   | 25                                      | 250   | 116.3  |  | 80-120   |  | 0   |  |          |
| Surr: 1,2-Dichloroethane-d4   | 228                                     | 25                                      | 250   | (  |  | 70-125   |  | 0   |  |          |
| Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane   | 259.9<br>240.3                          | 25<br>25                                | 250<br>250  | (  |  | 72-125   |  | 0   |  |          |
| Sur: Dibromondoromenane Surr: Toluene-d8  | 240.3<br>266.4                          | 25<br>25                                | 250<br>250  | (  |  | 71-125<br>75-125   |  | 0   |  |          |
| Suit. Tolderie-Qo   | 200.4                                   | 20                                      | 250   |  | 107  | 75-125   |  | 0   |  |          |
|   |   |   |   |  | 1.1  | nits: µg/L   |  | Analysis Da                               | ite: <b>08/29</b> /                              | 07 20:29 |
| MSD Sample ID: 0708515-28AMS  | D                                       |   |   |  | U  | into. pg/c   |  |   | DF: 5  |          |
|   |   | D: <b>VOA1_</b> (                       | 070829A   | 5  | 6eqNo: <b>119</b>                          |  | Prep Date:   |   |  |          |
| MSD Sample ID: 0708515-28AMS Client ID:   |   | D: <b>VOA1_</b> 6                       | 070829A   |  |  |  | Prep Date:   |   | RPD  |          |
| Client ID:  |   | D: <b>VOA1_</b> 6                       | 070829A<br>SPK Val                                | SPK Ref<br>Value   |  | 9989   |  | %RPD                                      |  | Qual     |
| Client ID:<br>Analyte   | Run I                                   | MQL                                     | SPK Val   | SPK Ref<br>Value   | SeqNo: <b>119</b> !<br>%REC                | 9989<br>Control<br>Limit   | Prep Date:<br>RPD Ref<br>Value                     |   | RPD<br>Limit                                     | Qual     |
| Client ID:<br>Analyte<br>Trichloroethene  | Run I<br>Result<br>347.3                | MQL<br>25                               | SPK Val   | SPK Ref<br>Value   | SeqNo: <b>119</b> 9<br>%REC<br>3 92.4      | 9989<br>Control<br>Limit<br>80-120   | Prep Date:<br>RPD Ref<br>Value<br>359              | .7 3.52                                   | RPD<br>Limit                                     | Qual     |
| Client ID:  Analyte  Trichloroethene  Surr: 1,2-Dichloroethane-d4   | Run I<br>Result<br>347.3<br>221.1       | MQL<br>25<br>25                         | SPK Val<br>250<br>250                             | SPK Ref<br>Value   | %REC<br>3 92.4<br>0 88.4                   | 9989<br>Control<br>Limit<br>80-120<br>70-125                               | Prep Date:  RPD Ref Value  359                     | .7 3.52<br>28 3.11                        | RPD<br>Limit<br>20<br>20                         | Qual     |
| Client ID:  Analyte  Trichloroethene  Surr: 1,2-Dichloroethane-d4  Surr: 4-Bromofluorobenzene   | Result  347.3  221.1  252.1             | MQL<br>25<br>25<br>25                   | SPK Val<br>250<br>250<br>250                      | SPK Ref<br>Value<br>116.3  | %REC 3 92.4 0 88.4 0 101                   | 9989<br>Control<br>Limit<br>80-120<br>70-125<br>72-125                     | Prep Date:<br>RPD Ref<br>Value<br>359<br>22<br>259 | .7 3.52<br>28 3.11<br>.9 3.04             | RPD<br>Limit<br>20<br>20<br>20                   | Qual     |
| Client ID:  Analyte  Trichloroethene  Surr: 1,2-Dichloroethane-d4  Surr: 4-Bromofluorobenzene  Surr: Dibromofluoromethane                   | Result 347.3 221.1 252.1 241            | MQL<br>25<br>25<br>25<br>25             | SPK Val<br>250<br>250<br>250<br>250               | SPK Ref<br>Value   | %REC  8 92.4  0 88.4  101  0 96.4          | 9989<br>Control<br>Limit<br>80-120<br>70-125<br>72-125<br>71-125           | Prep Date:  RPD Ref Value  359 22 259 240          | .7 3.52<br>28 3.11<br>.9 3.04<br>.3 0.306 | RPD<br>Limit<br>20<br>20<br>20<br>20             | Qual     |
| Client ID:  Analyte  Trichloroethene  Surr: 1,2-Dichloroethane-d4  Surr: 4-Bromofluorobenzene   | Result  347.3  221.1  252.1  241  262.7 | MQL<br>25<br>25<br>25<br>25<br>25<br>25 | SPK Val<br>250<br>250<br>250                      | SPK Ref<br>Value   | %REC  8 92.4  0 88.4  101  0 96.4          | 9989<br>Control<br>Limit<br>80-120<br>70-125<br>72-125                     | Prep Date:<br>RPD Ref<br>Value<br>359<br>22<br>259 | .7 3.52<br>28 3.11<br>.9 3.04<br>.3 0.306 | RPD<br>Limit<br>20<br>20<br>20                   | Qual     |
| Client ID:  Analyte  Trichloroethene  Surr: 1,2-Dichloroethane-d4  Surr: 4-Bromofluorobenzene  Surr: Dibromofluoromethane  Surr: Toluene-d8 | Result  347.3  221.1  252.1  241  262.7 | MQL 25 25 25 25 25 27 25                | SPK Val<br>250<br>250<br>250<br>250<br>250<br>250 | SPK Ref<br>Value   | %REC  3 92.4  0 88.4  0 101  0 96.4  0 105 | 9989<br>Control<br>Limit<br>80-120<br>70-125<br>72-125<br>71-125<br>75-125 | Prep Date:  RPD Ref Value  359 22 259 240 266      | .7 3.52<br>28 3.11<br>.9 3.04<br>.3 0.306 | RPD<br>Limit<br>20<br>20<br>20<br>20<br>20<br>20 |          |

P - Dual Column results percent difference > 40%

E - Value above quantitation range

QUALITY - INTEGRITY - SERVICE

10450 Stancliff Rd, #210 Houston, Texas 77099 (Tel) 281,530,5656 (Fax) 281,530,5887

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Holland, Michigan 49424 (Tel) 616.399.6070 (Fax) 616,399,6185 3352 128th Avenue ]

Ze Lab Work Order # 1 Mrs 4

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The Chain of Custody is a Legal Document. All information must be completed accurately.

表現を表現である。 Notice である。 Notic \* Results Due Date to the second of the seco ☐ TRRP Checklist ☐ TRRP Level IV GC Rackages, (Check One Box Below)\* (The Fig. ) Parameter/Method Request for Analysis ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Level II Std QC Required Tuffrafound Thigs (Check Box) - Trough Trought to the first of the first o □ Other (i) を参えれず Blankを変 を変えればいかのできます。 7 Cooler ID χĹ Notes: Cameron Iran war (95) ين يو Ď T O Line Preservative Key: +11HG| 4-27HNO3-1-3-H-SO42-4-4NaOH-1-25-NaSSO4-4-6-NaHSO4-1-7-0ther-1-8-4-6-4-5-5-035-Custoner M 4 Ч Project Information HODH Same Romer 1630 Received by: 世ーるの Shipment Method Project Number of the state of #### Project Name: Fe-Wait Address City/State/Zip 70/82 Z. Sampleks) Please Print 8: Sign = 1/2 (C) (C) (C) engles and a second sec Times  $\widetilde{\omega}$ Date: 2/29/07 15810 Park Ten Place Southwest نچ TX 7708 281-600-1000 & heeler Customer Information Suite # 300 281-600-182 60761 MRR Cier Logged by (Laboratory); 6 8 8 8 8 A COUNTY OF THE PROPERTY OF TH MW-70 \*\*\*Workonder e-Mail Address Purchase Order Relinquished by: Relinquished by in in £., 指公母 m张安安 经公司 及口等 文口母 及了分司 群的例 有任任 \***CO**\* \* O) \*

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc.

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# Sample Receipt Checklist

| Client Name: ERMSW-HOU   |                 |  | Date/Time Received:                    | 8/29/2007 11:25:00 AM  |
|--|-----------------|--|--|--|
| Work Order Number 0708641  |                 |  | Received by: RNG                       | _  |
| Checklist completed by Fignature  Matrix: W  | Carrier name:   | 9 O                                    | Reviewed by Initials                   | Let 8/2/107  |
| Shipping container/cooler in good condition?   |                 | Yes 🗹                                  | No Not Present                         |  |
| Custody seals intact on shipping container/coole   | er?             | Yes 🗌                                  | No Not Present                         | <b>✓</b>   |
| Custody seals intact on sample bottles?  |                 | Yes 🗌                                  | No Not Present                         | $\overline{\mathcal{L}}$   |
| Chain of custody present?  |                 | Yes 🗹                                  | No 🗆                                   |  |
| Chain of custody signed when relinquished and  | received?       | Yes 🗹                                  | No 🗆                                   |  |
| Chain of custody agrees with sample labels?  |                 | Yes 🗹                                  | No 🗆                                   |  |
| Samples in proper container/bottle?  |                 | Yes 🗹                                  | No 🗀                                   |  |
| Sample containers intact?  |                 | Yes 🗹                                  | No 🗀                                   |  |
| Sufficient sample volume for indicated test?   |                 | Yes 🗹                                  | No 🗆                                   | •  |
| All samples received within holding time?  |                 | Yes 🗹                                  | No 🗀                                   |  |
| Container/Temp Blank temperature in compliance?  |                 |  | No 🗀                                   |  |
| Temperature(s)/Thermometer(s): 3.4c  |                 | 002                                    |  |  |
| Water - VOA vials have zero headspace?   |                 | Yes 🗹                                  | No C No VOA vials sub                  | omitted  |
| Water - pH acceptable upon receipt?  |                 | Yes 🗌                                  | No □ N/A ☑                             |  |
|  | Adjusted?       | Chec                                   | ked by                                 |  |
| Login Notes: <u>No trip blank was received.</u>  |                 |  |  |  |
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| Client contacted:  | Date contacted: |  | Person contacted                       | TO VENEZULATION IN COMMUNICATION IN COMU |
| Contacted by:  | Regarding:      |  |  |  |
| Comments:  |                 |  |  |  |
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| Corrective Action  |                 |  |  |  |
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