



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

**Trace Analysis, Inc.**

Certificate of Analysis Number:

**08090102**

<b>Report To:</b> Trace Analysis, Inc. Liz Givens 6701 Aberdeen Avenue Suite 9 Lubbock TX 79424- ph: (806) 794-1296      fax:	<b>Project Name:</b> 172467 <b>Site:</b> Lubbock, TX <b>Site Address:</b>  <b>PO Number:</b> <b>State:</b> Texas <b>State Cert. No.:</b> T104704205-06-TX <b>Date Reported:</b> 9/17/2008
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This Report Contains A Total Of 7 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

9/17/2008

Date





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**Certificate of Analysis Number:**

**08090102**

**Report To:** Trace Analysis, Inc.  
 Liz Givens  
 6701 Aberdeen Avenue  
 Suite 9  
 Lubbock  
 TX  
 79424-  
 ph: (806) 794-1296

fax: (806) 794-1298

**Project Name:** 172467  
**Site:** Lubbock, TX  
**Site Address:**

**PO Number:**  
**State:** Texas  
**State Cert. No.:** T104704205-06-TX

**Date Reported:** 9/17/2008

**Fax To:**

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
172467	08090102-01	Water	8/28/2008 12:20:00 PM	9/3/2008 9:30:00 AM		<input type="checkbox"/>

Erica Cardenas  
 Project Manager

9/17/2008

Date

Richard R. Reed  
 Laboratory Director

Ted Yen  
 Quality Assurance Officer



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Client Sample ID: 172467      Collected: 08/28/2008 12:20      SPL Sample ID: 08090102-01

Site: Lubbock, TX

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<b>TOTAL ORGANIC CARBON (NPOC)</b>				<b>MCL</b>	<b>E415.1</b>	<b>Units: mg/L</b>	
Organic Carbon, Total	8.48		1	1	09/05/08 14:00	ESK	4664359

**Qualifiers:**      ND/U - Not Detected at the Reporting Limit      >MCL - Result Over Maximum Contamination Limit(MCL)  
                          B/V - Analyte detected in the associated Method Blank      D - Surrogate Recovery Unreportable due to Dilution  
                          \* - Surrogate Recovery Outside Advisable QC Limits      MI - Matrix Interference  
                          J - Estimated Value between MDL and PQL  
                          E - Estimated Value exceeds calibration curve  
                          TNTC - Too numerous to count

# *Quality Control Documentation*



Quality Control Report

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Trace Analysis, Inc.
172467

Analysis: Total Organic Carbon (NPOC)
Method: E415.1

WorkOrder: 08090102
Lab Batch ID: R250571

Method Blank

Samples in Analytical Batch:

RunID: TOC1\_080905D-4664352 Units: mg/L
Analysis Date: 09/05/2008 14:00 Analyst: ESK

Lab Sample ID Client Sample ID
08090102-01A 172467

Table with 3 columns: Analyte, Result, Rep Limit. Row: Organic Carbon, Total, ND, 1.0

Laboratory Control Sample (LCS)

RunID: TOC1\_080905D-4664353 Units: mg/L
Analysis Date: 09/05/2008 14:00 Analyst: ESK

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Row: Organic Carbon, Total, 4.000, 3.939, 98.48, 84, 116

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08090162-01
RunID: TOC1\_080905D-4664360 Units: mg/L
Analysis Date: 09/05/2008 14:00 Analyst: ESK

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Row: Organic Carbon, Total, 6.262, 2, 7.280, 50.90 \*, 2, 6.772, 25.50 \*, 7.230, 20, 73, 125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL \* - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist  
And  
Chain of Custody*



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**Sample Receipt Checklist**

Workorder:	<b>08090102</b>	Received By:	<b>RE</b>
Date and Time Received:	<b>9/3/2008 9:30:00 AM</b>	Carrier name:	<b>Fedex-Priority</b>
Temperature:	<b>3.5°C</b>	Chilled by:	<b>Water Ice</b>

- |   |   |                             |   |
|---|---|-----------------------------|---|
| <b>1. Shipping container/cooler in good condition?</b>              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>                      |
| <b>2. Custody seals intact on shipping container/cooler?</b>        | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>                      |
| <b>3. Custody seals intact on sample bottles?</b>                   | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/>           |
| <b>4. Chain of custody present?</b>                                 | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>5. Chain of custody signed when relinquished and received?</b>   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>6. Chain of custody agrees with sample labels?</b>               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>7. Samples in proper container/bottle?</b>                       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>8. Sample containers intact?</b>                                 | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>9. Sufficient sample volume for indicated test?</b>              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>10. All samples received within holding time?</b>                | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>11. Container/Temp Blank temperature in compliance?</b>          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>12. Water - VOA vials have zero headspace?</b>                   | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | VOA Vials Not Present <input checked="" type="checkbox"/> |
| <b>13. Water - Preservation checked upon receipt (except VOA*)?</b> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/>                   |

\*VOA Preservation Checked After Sample Analysis

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SPL Representative:	<input type="text"/>	Contact Date & Time:	<input type="text"/>
Client Name Contacted:	<input type="text"/>		
Non Conformance Issues:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

