



## Summary Report

Kem McCreedy  
Nadel & Gussman Permian LLC  
601 N. Marienfeld  
Suite 508  
Midland, TX, 79701

Report Date: May 4, 2007

Work Order: 7050319



30-015-34600

Project Name: Hannibal Fee No. 1

| Sample | Description          | Matrix | Date Taken | Time Taken | Date Received |
|--------|----------------------|--------|------------|------------|---------------|
| 123299 | N Wall Floor Comp    | soil   | 2007-05-02 | 10:50      | 2007-05-03    |
| 123300 | S Wall Floor Comp    | soil   | 2007-05-02 | 11:00      | 2007-05-03    |
| 123301 | E Wall Floor Comp    | soil   | 2007-05-02 | 11:20      | 2007-05-03    |
| 123302 | W Wall Floor Comp    | soil   | 2007-05-02 | 11:40      | 2007-05-03    |
| 123303 | Romulus Blowout Tank | soil   | 2007-05-02 | 12:00      | 2007-05-03    |

**Sample: 123299 - N Wall Floor Comp**

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 8030   | mg/Kg | 5.00 |

**Sample: 123300 - S Wall Floor Comp**

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 8180   | mg/Kg | 5.00 |

**Sample: 123301 - E Wall Floor Comp**

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 212    | mg/Kg | 5.00 |

**Sample: 123302 - W Wall Floor Comp**

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 174    | mg/Kg | 5.00 |

**Sample: 123303 - Romulus Blowout Tank**

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*This is only a summary. Please, refer to the complete report package for quality control data.*



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## Analytical and Quality Control Report

Kem McCreedy  
Nadel & Gussman Permian LLC  
601 N. Marienfeld  
Suite 508  
Midland, TX, 79701

Report Date: May 4, 2007

Work Order: 7050319



Project Name: Hannibal Fee No. 1  
Project Number: Hannibal Fee No. 1

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description          | Matrix | Date Taken | Time Taken | Date Received |
|--------|----------------------|--------|------------|------------|---------------|
| 123299 | N Wall Floor Comp    | soil   | 2007-05-02 | 10:50      | 2007-05-03    |
| 123300 | S Wall Floor Comp    | soil   | 2007-05-02 | 11:00      | 2007-05-03    |
| 123301 | E Wall Floor Comp    | soil   | 2007-05-02 | 11:20      | 2007-05-03    |
| 123302 | W Wall Floor Comp    | soil   | 2007-05-02 | 11:40      | 2007-05-03    |
| 123303 | Romulus Blowout Tank | soil   | 2007-05-02 | 12:00      | 2007-05-03    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

### Standard Flags

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project 'Hannibal Fee No. 1' were received by TraceAnalysis, Inc. on 2007-05-03 and assigned to work order 7050319. Samples for work order 7050319 were received intact at a temperature of 22 C.

Samples were analyzed for the following tests using their respective methods.

| Test                 | Method       |
|----------------------|--------------|
| Chloride (Titration) | SM 4500-Cl B |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7050319 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

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| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 208    | mg/Kg | 5.00 |

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## Analytical Report

### Sample: 123299 - N Wall Floor Comp

|             |                      |                     |              |              |     |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch:   | 36978                | Date Analyzed:      | 2007-05-03   | Analyzed By: | SM  |
| Prep Batch: | 32077                | Sample Preparation: | 2007-05-03   | Prepared By: | SM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 8030         | mg/Kg | 200      | 5.00 |

### Sample: 123300 - S Wall Floor Comp

|             |                      |                     |              |              |     |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch:   | 36978                | Date Analyzed:      | 2007-05-03   | Analyzed By: | SM  |
| Prep Batch: | 32077                | Sample Preparation: | 2007-05-03   | Prepared By: | SM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 8180         | mg/Kg | 200      | 5.00 |

### Sample: 123301 - E Wall Floor Comp

|             |                      |                     |              |              |     |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch:   | 36978                | Date Analyzed:      | 2007-05-03   | Analyzed By: | SM  |
| Prep Batch: | 32077                | Sample Preparation: | 2007-05-03   | Prepared By: | SM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 212          | mg/Kg | 20       | 5.00 |

### Sample: 123302 - W Wall Floor Comp

|             |                      |                     |              |              |     |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch:   | 36978                | Date Analyzed:      | 2007-05-03   | Analyzed By: | SM  |
| Prep Batch: | 32077                | Sample Preparation: | 2007-05-03   | Prepared By: | SM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 174          | mg/Kg | 20       | 5.00 |

### Sample: 123303 - Romulus Blowout Tank

|             |                      |                     |              |              |     |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch:   | 36978                | Date Analyzed:      | 2007-05-03   | Analyzed By: | SM  |
| Prep Batch: | 32077                | Sample Preparation: | 2007-05-03   | Prepared By: | SM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 208          | mg/Kg | 20       | 5.00 |

**Method Blank (1)**      QC Batch: 36978

QC Batch: 36978      Date Analyzed: 2007-05-03      Analyzed By: SM  
Prep Batch: 32077      QC Preparation: 2007-05-03      Prepared By: SM

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| Chloride  |      | <3.25         | mg/Kg | 5  |

**Laboratory Control Spike (LCS-1)**

QC Batch: 36978      Date Analyzed: 2007-05-03      Analyzed By: SM  
Prep Batch: 32077      QC Preparation: 2007-05-03      Prepared By: SM

| Param    | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | 100           | mg/Kg | 1    | 100             | <3.25            | 100  | 90 - 110      |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param    | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | 99.4           | mg/Kg | 1    | 100             | <3.25            | 99   | 90 - 110      | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)**      Spiked Sample: 123303

QC Batch: 36978      Date Analyzed: 2007-05-03      Analyzed By: SM  
Prep Batch: 32077      QC Preparation: 2007-05-03      Prepared By: SM

| Param    | MS<br>Result     | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|------------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | <sup>1</sup> 432 | mg/Kg | 20   | 2000            | 208.494          | 11   | 84.6 - 117    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param    | MSD<br>Result    | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|------------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | <sup>2</sup> 432 | mg/Kg | 20   | 2000            | 208.494          | 11   | 84.6 - 117    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

<sup>1</sup>Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

<sup>2</sup>Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

**Standard (ICV-1)**

QC Batch: 36978

Date Analyzed: 2007-05-03

Analyzed By: SM

| Param    | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |      | mg/Kg | 100                   | 101                    | 101                         | 85 - 115                      | 2007-05-03       |

**Standard (CCV-1)**

QC Batch: 36978

Date Analyzed: 2007-05-03

Analyzed By: SM

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |      | mg/Kg | 100                   | 99.2                   | 99                          | 85 - 115                      | 2007-05-03       |

## TraceAnalysis, Inc.

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|   |  |
|---|--|
| Company Name:<br><i>Quasman Permian, LLC</i>                            | Phone #:<br><i>432-682-4429</i>          |
| Address:<br><i>601 N. Marionfield Dr., Suite 508, Midland, TX 79701</i> | Fax #:                                   |
| Contact Person:<br><i>Sam McCready</i>                                  | E-mail:<br><i>kennedynagusa.com</i>      |
| Invoice to:<br>(If different from above)                                |  |
| Project #:<br><i>Sannehal Fee #1</i>                                    | Project Name:<br><i>Sannehal</i>         |
| Project Location (including state):                                     | Sampler Signature:<br><i>[Signature]</i> |

ANALYSIS REQUEST  
(Circle or Specify Method No.)

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |  |  |  | PRESERVATIVE METHOD |  |  |  |  |  | SAMPLING |  | MTBE 8021B / 6021B |
|-------------------------|------------|--------------|-----------------|--------|--|--|--|---------------------|--|--|--|--|--|----------|--|--|
|-------------------------|------------|--------------|-----------------|--------|--|--|--|---------------------|--|--|--|--|--|----------|--|--|

*Soil Cl<sub>2</sub> on all samples**Email results to:  
kennedynagusa.com  
mike.bratcher@state.nm.us  
cmwink@mac.com*

|  |                        |                      |                            |       |       |
|--|------------------------|----------------------|----------------------------|-------|-------|
| Relinquished by:<br><i>[Signature]</i> | Date:<br><i>5/3/07</i> | Time:<br><i>1330</i> | Received by:               | Date: | Time: |
| Relinquished by:                       | Date:                  | Time:                | Received by:               | Date: | Time: |
| Relinquished by:                       | Date:                  | Time:                | Received at Laboratory by: | Date: | Time: |

*Deena Duple 5-3-2007 11:00*

## LAB USE ONLY

Intact ☒ Y ☐ N  
Headspace ☐ Y ☒ N  
Temp *2200*  
Log-in-Review ☒

## REMARKS:

- 24 hr.*
- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Carrier # *BUSC-TRIPASS 670.2*