# Summary Report

Justin Hutchins
Phoenix Environmental
2113 French Dr.
P.O. Box 1856
Hobbs, NM, 88240-41

Report Date: April 2, 2007

Work Order: 7040220

Project Location: Nitro 11 Fed #1
Project Number: 30-015-34770

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 120521 | East Ramp 12' | soil | 2007-04-02 | 07:30 | 2007-04-02 |
| 120522 | West Ramp 12' | soil | 2007-04-02 | 07:45 | 2007-04-02 |
| 120523 | Bottom Center 28'-30' | soil | 2007-04-02 | 08:15 | 2007-04-02 |
| 120524 | North Wall 20' | soil | 2007-04-02 | 08:45 | 2007-04-02 |
| 120525 | South Wall 20' | soil | 2007-04-02 | 09:00 | 2007-04-02 |
| 120526 | BG | soil | 2007-04-02 | 09:45 | 2007-04-02 |

**Sample: 120521 - East Ramp 12'**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **3880** | mg/Kg | 5.00 |

**Sample: 120522 - West Ramp 12'**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **1300** | mg/Kg | 5.00 |

**Sample: 120523 - Bottom Center 28'-30'**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **1130** | mg/Kg | 5.00 |

**Sample: 120524 - North Wall 20'**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **521** | mg/Kg | 5.00 |

**Sample: 120525 - South Wall 20'**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **629** | mg/Kg | 5.00 |

**Sample: 120526 - BG**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | <100 | mg/Kg | 5.00 |

TRACEANALYSIS, INC.

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# Analytical and Quality Control Report

Justin Hutchins
Phoenix Environmental
2113 French Dr.
P.O. Box 1856
Hobbs, NM, 88240-41

Report Date: April 2, 2007

Work Order: 7040220

Project Location: Nitro 11 Fed #1
Project Number: 30-015-34770

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 |
|---|---|---|---|---|---|
| 120521 | East Ramp 12' | soil | 2007-04-02 | 07:30 | 2007-04-02 |
| 120522 | West Ramp 12' | soil | 2007-04-02 | 07:45 | 2007-04-02 |
| 120523 | Bottom Center 28'-30' | soil | 2007-04-02 | 08:15 | 2007-04-02 |
| 120524 | North Wall 20' | soil | 2007-04-02 | 08:45 | 2007-04-02 |
| 120525 | South Wall 20' | soil | 2007-04-02 | 09:00 | 2007-04-02 |
| 120526 | BG | soil | 2007-04-02 | 09:45 | 2007-04-02 |

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.



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 were received by TraceAnalysis, Inc. on 2007-04-02 and assigned to work order 7040220. Samples for work order 7040220 were received intact at a temperature of 4 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 occuring, however, it may not pertain to the samples for work order 7040220 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 preformed with each preparation batch to ensure data integrity.

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

# Analytical Report

**Sample: 120521 - East Ramp 12'**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Chloride (Titration) | Analytical Method: | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch: | 36119 | Date Analyzed: | 2007-04-02 | Analyzed By: | JS |
| Prep Batch: | 31344 | Sample Preparation: | 2007-04-02 | Prepared By: | JS |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Chloride | | **3880** | | mg/Kg | 100 | 5.00 |

**Sample: 120522 - West Ramp 12'**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Chloride (Titration) | Analytical Method: | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch: | 36119 | Date Analyzed: | 2007-04-02 | Analyzed By: | JS |
| Prep Batch: | 31344 | Sample Preparation: | 2007-04-02 | Prepared By: | JS |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Chloride | | **1300** | | mg/Kg | 20 | 5.00 |

**Sample: 120523 - Bottom Center 28'-30'**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Chloride (Titration) | Analytical Method: | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch: | 36119 | Date Analyzed: | 2007-04-02 | Analyzed By: | JS |
| Prep Batch: | 31344 | Sample Preparation: | 2007-04-02 | Prepared By: | JS |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Chloride | | **1130** | | mg/Kg | 20 | 5.00 |

**Sample: 120524 - North Wall 20'**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Chloride (Titration) | Analytical Method: | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch: | 36119 | Date Analyzed: | 2007-04-02 | Analyzed By: | JS |
| Prep Batch: | 31344 | Sample Preparation: | 2007-04-02 | Prepared By: | JS |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Chloride | | **521** | | mg/Kg | 10 | 5.00 |

**Sample: 120525 - South Wall 20'**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Chloride (Titration) | Analytical Method: | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch: | 36119 | Date Analyzed: | 2007-04-02 | Analyzed By: | JS |
| Prep Batch: | 31344 | Sample Preparation: | 2007-04-02 | Prepared By: | JS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| Chloride | | **629** | mg/Kg | 10 | 5.00 |

**Sample: 120526 - BG**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Chloride (Titration) | Analytical Method: | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch: | 36119 | Date Analyzed: | 2007-04-02 | Analyzed By: | JS |
| Prep Batch: | 31344 | Sample Preparation: | 2007-04-02 | Prepared By: | JS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| Chloride | | <100 | mg/Kg | 20 | 5.00 |

**Method Blank (1)** QC Batch: 36119

| | | | | | |
|---|---|---|---|---|---|
| QC Batch: | 36119 | Date Analyzed: | 2007-04-02 | Analyzed By: | JS |
| Prep Batch: | 31344 | QC Preparation: | 2007-04-02 | Prepared By: | JS |

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

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

| | | | | | |
|---|---|---|---|---|---|
| QC Batch: | 36119 | Date Analyzed: | 2007-04-02 | Analyzed By: | JS |
| Prep Batch: | 31344 | QC Preparation: | 2007-04-02 | Prepared By: | JS |

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Chloride | 101 | mg/Kg | 1 | 100 | <3.25 | 101 | 90 - 110 |

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

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 99.3 | mg/Kg | 1 | 100 | <3.25 | 99 | 90 - 110 | 2 | 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: 120521

| | | | | | |
|---|---|---|---|---|---|
| QC Batch: | 36119 | Date Analyzed: | 2007-04-02 | Analyzed By: | JS |
| Prep Batch: | 31344 | QC Preparation: | 2007-04-02 | Prepared By: | JS |

*continued ...*

*matrix spikes continued ...*

| Param | | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Param | | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
| Chloride | [1] | 4250 | mg/Kg | 100 | 10000 | 3880 | 4 | 84.6 - 117 |

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

| Param | | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | [2] | 4350 | mg/Kg | 100 | 10000 | 3880 | 5 | 84.6 - 117 | 2 | 20 |

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

**Standard (ICV-1)**

QC Batch: 36119 Date Analyzed: 2007-04-02 Analyzed By: JS

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloride | | mg/Kg | 100 | 100 | 100 | 85 - 115 | 2007-04-02 |

**Standard (CCV-1)**

QC Batch: 36119 Date Analyzed: 2007-04-02 Analyzed By: JS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloride | | mg/Kg | 100 | 99.9 | 100 | 85 - 115 | 2007-04-02 |

[1]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[2]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

LAB Order ID # 7040220 Page _____ of _____

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Contact Person: Justin Hutchins E-mail: EAHodgL@Leaco.Net

Invoice to: (If different from above)

Project #: Project Name: 30-015-34770

Project Location (including state): Nitro 11 Fed #1 Sampler Signature: Ray Danya

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20521 | East ramp 12' | 402 | | | X | | | | | | | X | | 4/2/07 | 7:30 am |
| 522 | West ramp 12' | | | | X | | | | | | | X | | | 7:45 am |
| 523 | Bottom Center 28-30' | | | | X | | | | | | | X | | | 8:15 am |
| 524 | North wall 20' | | | | X | | | | | | | X | | | 8:45 am |
| 525 | South wall 20' | | | | X | | | | | | | X | | | 9:00 am |
| 526 | BG | | | | X | | | | | | | X | | | 9:45 am |

ANALYSIS REQUEST (Circle or Specify Method No.)

| MTBE 8021B / 602 / 8260B / 624 | BTEX 8021B / 602 / 8260B / 624 | TPH 418.1 / TX1005 / TX1005 Ext(C35) | TPH 8015 GRO / DRO / TVHC | PAH 8270C / 625 | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C / 625 | PCB's 8082 / 608 | Pesticides 8081A / 608 | BOD, TSS, pH | Moisture Content | CL | | | | | Turn Around Time if different from standard | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | X | | | | | | |

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| Ray Danya | 4/2/07 | 10:00 AM | [signature] | 4/2/07 | 10:00 AM |
| [signature] | 4/2/07 | 2:19 PM | | | |
| | | | Received at Laboratory by: [signature] | 4/2/07 | 2:19 |

**LAB USE ONLY**

Intact Y / N

Headspace Y / N

Temp 4°C

Log-in-Review [initials]

REMARKS:

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Carrier # [signature]

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

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