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To: (Receiving Organization)  

Distribution

From: (Originating Organization)  

Characterization Plans and Reports

Technical Basis

Project/Program/Department/Division:

Tank 241-C-201/Waste Management/CPR/Char.

Cog. Engr.:

Ruth D. Schreiber

Purchase Order No.:

N/A

Equipment/Component No.:

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System/Building/Facility:

N/A

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N/A

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Characterization Plans and Reports

Ruth D. Schreiber

Cog. Engr.

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20. J.J. Kristofszki  

Cognizant Manager Date

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BD-7400-172-2 (04/94) GEF097
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Document Number: WHC-SD-WM-DP-116, Rev. 0

Document Title: 45-Day Safety Screen Results for Tank 241-C-201, Auger Samples 95-AUG-025 and 95-AUG-026

Release Date: 6/15/95

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WHC Information Release Administration Specialist:

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DATE: JUN 15 1995
WHC-SD-WM-DP-116, REV. 0

ANALYTICAL SERVICES

45-DAY SAFETY SCREEN RESULTS FOR TANK 241-C-201, AUGER SAMPLES, 95-AUG-025 AND 95-AUG-026

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DATE PRINTED: June 14, 1995
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This Document consists of pages 1 through 33.
45-DAY SAFETY SCREEN RESULTS FOR TANK 241-C-201, AUGER SAMPLES 95-AUG-025 AND 95-AUG-026

ANALYTICAL SUMMARY

Two auger samples from tank 241-C-201 (C-201) were received by the 222-S Laboratories and underwent safety screening analysis, consisting of differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), and total alpha activity. Analytical results for the DSC analyses of both samples exceeded the notification limit of 481 J/g (dry weight basis). As well, the TGA analyses for both samples were less than the safety screening notification limit (notification is made if the sample is analyzed at less than 17 percent water). Notification of both of these occurrences was made on May 15, 1995, and secondary analysis of total organic carbon (TOC) was initiated. These TOC analysis results are also included in this report.

SCOPE

This document serves as the 45-day report deliverable for the tank C-201 auger samples collected on May 4, 1995 (95-AUG-025 and 95-AUG-026). Each sample was received, extruded, and analyzed by the 222-S Laboratories in accordance with the below referenced TCP. Included in this report are the primary safety screening results obtained from the analyses and copies of all DSC and TGA raw data scans as directed by the TCP. Photographs of the auger samples were taken during extrusion and, although not included in this report, are available and will be included in the final data report.

SAMPLE RECEIPT, EXTRUSION, AND SUBSAMPLING

Auger 95-AUG-025

Auger sample 95-AUG-025 was collected from riser 7 East of tank C-201 using a 20 inch auger bit. It was received into the 222-S Laboratories on May 4, 1995 at 1145 hours and extruded on May 8, 1995. There was no drainable liquid, but 3.72 grams of solids were collected. The solids were brownish-grey in color with some yellow solids intermixed, looked very dry and crumbly, and fell off the auger onto the sample tray after the sleeve was removed. Due to the small amount of sample obtained, all material was subsampled into one jar (#6654) and was not divided into half-segments as directed in the TCP. Due to insufficient sample recovery, no material was archived from this auger sample. However, all primary analysis requirements per the TCP were able to be performed on this sample.

Upon discussion with the Ferrocyanide and Organic Safety Program management, a decision was made to not run cyanide analyses as directed by the TCP. This decision was based on the program's existing knowledge of the tank's fill history and the fact that the auger samples yielded very little sample. Discussions are currently ongoing to determine if RSS analysis is necessary.
Auger 95-AUG-026

Auger sample 95-AUG-026 was collected from riser 7 West of tank C-201 using a 20 inch auger bit. It was received into the 222-S Laboratories on May 4, 1995 at 1155 hours and extruded on May 8, 1995. There was no drainable liquid, but 12.09 grams of solids were collected. The solids were brownish-grey in color with some yellow solids intermixed, looked very dry and crumbly, and fell off the auger onto the sample tray after the sleeve was removed. As with the sample material from auger 95-AUG-025, the material from 95-AUG-026 was subsampled into one jar (#7167). All analyses and sample archives were performed from this jar.

ANALYTICAL RESULTS

Analytical results are presented in the sample data summary, with the applicable notification limits shaded.

DSC (Energetics Content)

DSC analyses were performed under a nitrogen atmosphere using procedure LA-514-113, Rev. B-1. Using the average percent water by TGA for each sample, dry weight basis results were calculated from the wet weight basis results. Both the wet and dry results for the sample and duplicate are given in the sample data summary. For samples S95T000895 and S95T000898, exotherms on a dry weight basis ranging from 381 J/g to 685 J/g were detected beginning at approximately 120°C to 180°C. Sample precision values were 11.7 and 17.0 percent, which was within the program's specified accuracy control limits of 90 to 110 percent recovery.

Many of the scans show an endothermic region within the exotherm; this is attributed to sodium nitrate in the sample. The LMCS control standard exhibited a recovery of 107.9 percent, which was within the program's specified accuracy control limits of 90 to 110 percent recovery.
TGA (Moisture Content)

Weight percent water was performed under a nitrogen atmosphere using procedure LA-560-112, Rev. A-2. Results for samples S95T000895 and S95T000898 and their duplicates ranged in value from 9.67 to 11.46 percent water by weight. The results for both samples and their duplicates were less than the notification limit of 17 weight percent water, and notification was made on May 15, 1995. The RPD values between the samples and their duplicates were 10.0 and 8.46 for samples S95T000895 and S95T000898, respectively. Due to a miscommunication between the laboratory chemist and the chemical technologist running the analysis, two additional runs for sample S95T000895 were performed even though the RPD value for the sample met the TCP specified precision requirement of 10%. The results for these additional runs are given in the sample data summary, and the raw data is included in this report. The Laboratory Measurement Control System (LMCS) control standard exhibited a recovery of 99.17 percent, which was within the program's specified accuracy control limits of 90 to 110 percent.

Total Alpha Activity

Analyses for total alpha activity were performed on samples S95T000897 and S95T000899. Samples were prepared by fusion using procedure LA-549-141, Rev. C-3, and analyses were performed using procedure LA-508-101, Rev. D-2. A sample duplicate and spike were performed on both samples. Sample S95T000897 had an RPD value of 0.84, which was within the TCP specified precision criterion of 10% RPD, but sample S95T000899 did not meet this precision criterion with its RPD value of 15.5%. As well, lower than normal spike recoveries caused both samples to exceed the accuracy control limits of 90 to 110 percent recovery, with values of 83.3% and 84.2%, respectively. This poor spike recovery was most likely due to solids observed in the sample mount. The results of the analyses are given in the sample data summary. Sample and duplicate alpha activities ranged from 11.9 to 22.9 μCi/g, which were less than the notification limit of 41 μCi/g (notification is made if this limit is exceeded).

Total Organic Carbon Analysis

Since the DSC notification limit was exceeded for the tank C-201 auger samples, TOC secondary analyses were performed on samples S95T000895 and S95T000898 in accordance with the TCP. Procedure LA-342-100, Rev. A-0 (direct persulfate method) was used for the analyses. Sample and duplicate values ranged from 3.77 wt% to 4.57 wt% carbon for the two samples, and the results are given in the sample data summary. Both samples exceeded the TOC notification limit of 3 wt% carbon (30,000 μg C/g), and notification of this occurrence was given verbally and in writing on May 26, 1995. Neither sample met the TCP specified precision criterion of 10% RPD, but additional runs were not performed since the values were close to the criterion (11.0% and 10.8% RPD, respectively). The Laboratory Measurement Control System (LMCS) control standard exhibited a recovery of 98.67 percent, which was within the program's specified accuracy control limits of 90 to 110 percent.

Project Coordinator: Ruth Schreiber
SAMPLE DATA SUMMARY
### 45 Day Safety Screen Report for Tank 241-C-201

**C-201**

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**SEGMENT #:** 95-AUG-25

**SEGMENT PORTION:** Whole Segment

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**SELECTED LIMIT**

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<th>Action Limits</th>
<th>Lower</th>
<th>Upper</th>
<th>Standard</th>
<th>Blank</th>
<th>Result</th>
<th>Duplicate</th>
<th>Average</th>
<th>RPD %</th>
<th>Spk Rec %</th>
<th>Det Limit</th>
<th>Count Err %</th>
</tr>
</thead>
<tbody>
<tr>
<td>S9ST000895</td>
<td></td>
<td>% Water by TGA using Mettler</td>
<td>%</td>
<td></td>
<td></td>
<td>100.00</td>
<td>28.0</td>
<td>n/a</td>
<td>8.30</td>
<td>12.42</td>
<td>9.4</td>
<td>64.3</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>S9ST000895</td>
<td></td>
<td>DSC Exotherm Dry Calculated</td>
<td>Joules/g Dry</td>
<td></td>
<td>-999.000</td>
<td>681.000</td>
<td>n/a</td>
<td>n/a</td>
<td>802.3</td>
<td>696.3</td>
<td>649.8</td>
<td>47.9</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>S9ST000895</td>
<td></td>
<td>DSC Exotherm using Mettler</td>
<td>Joules/g</td>
<td></td>
<td>-999.000</td>
<td>681.000</td>
<td>107.9</td>
<td>n/a</td>
<td>720.0</td>
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<td>852.8</td>
<td>47.9</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>
**45 Day Safety Screen Report for Tank 241-C-201**

**CORE NUMBER: 95-AUG-26, 95-AUG-25**

**SEGMENT #: 95-AUG-26**

### SEGMENT PORTION: W Whole Segment

<table>
<thead>
<tr>
<th>Sample#</th>
<th>Analyte</th>
<th>Unit</th>
<th>Action Limits</th>
<th>Lower</th>
<th>Upper</th>
<th>Standard %</th>
<th>Blank</th>
<th>Result</th>
<th>Duplicate</th>
<th>Average</th>
<th>RPD %</th>
<th>Spk Rec %</th>
<th>Det Limit</th>
<th>Count Err %</th>
</tr>
</thead>
<tbody>
<tr>
<td>S951000898</td>
<td>TOC by Persulfate/Coulometry</td>
<td>µg/g</td>
<td>-999,000</td>
<td>3000,000</td>
<td>98.67</td>
<td>39.80</td>
<td>4.57e+04</td>
<td>4.10e+04</td>
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<td>80.00</td>
<td>n/a</td>
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<tr>
<td>S951000898</td>
<td>% Water by TGA using Mettler</td>
<td>%</td>
<td>-999,000</td>
<td>100,000</td>
<td>99.17</td>
<td>n/a</td>
<td>11.46</td>
<td>10.53</td>
<td>11.00</td>
<td>8.46</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>S951000898</td>
<td>DSC Exotherm Dry Calculated</td>
<td>Joules/g Dry</td>
<td>-999,000</td>
<td>2481,000</td>
<td>n/a</td>
<td>n/a</td>
<td>381.0</td>
<td>452</td>
<td>416.5</td>
<td>17.0</td>
<td>n/a</td>
<td>1.00e-04</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>S951000898</td>
<td>DSC Exotherm using Mettler</td>
<td>Joules/g</td>
<td>-999,000</td>
<td>2481,000</td>
<td>107.9</td>
<td>n/a</td>
<td>339.2</td>
<td>402.4</td>
<td>370.8</td>
<td>17.0</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>S951000899</td>
<td>F Alpha of Digested Solid</td>
<td>UCI/g</td>
<td>None</td>
<td>None</td>
<td>93.49</td>
<td>&lt;3.14e-02</td>
<td>22.90</td>
<td>1.96e+01</td>
<td>2.12e+01</td>
<td>15.5</td>
<td>84.20</td>
<td>7.30e-02</td>
<td>2.4</td>
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**Additional DSC Results**

<table>
<thead>
<tr>
<th>Sample#</th>
<th>Analyte</th>
<th>Unit</th>
<th>Action Limits</th>
<th>Lower</th>
<th>Upper</th>
<th>Standard %</th>
<th>Blank</th>
<th>Result</th>
<th>Duplicate</th>
<th>Average</th>
<th>RPD %</th>
<th>Spk Rec %</th>
<th>Det Limit</th>
<th>Count Err %</th>
</tr>
</thead>
<tbody>
<tr>
<td>S951000898</td>
<td>DSC Exotherm Dry Calculated</td>
<td>Joules/g Dry</td>
<td>-999,000</td>
<td>2481,000</td>
<td>n/a</td>
<td>n/a</td>
<td>769.1</td>
<td>664.4</td>
<td>718.3</td>
<td>14.2</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>S951000898</td>
<td>DSC Exotherm using Mettler</td>
<td>Joules/g</td>
<td>-999,000</td>
<td>2481,000</td>
<td>107.6</td>
<td>n/a</td>
<td>681.8</td>
<td>591.3</td>
<td>636.6</td>
<td>14.2</td>
<td>n/a</td>
<td>n/a</td>
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</table>
SAMPLE ANALYSES RESULTS
LABCORE Data Entry Template for Worklist# 1376


Worklist Comment: Please run C-201 DSC under N2. bdv

<table>
<thead>
<tr>
<th>GROUP</th>
<th>PROJECT</th>
<th>S TYPE</th>
<th>SAMPLE#</th>
<th>R A</th>
<th>-----TEST-----</th>
<th>MATRIX</th>
<th>ACTUAL</th>
<th>FOUND</th>
<th>DL</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>STD</td>
<td></td>
<td></td>
<td></td>
<td>DSC-01</td>
<td>SOLID</td>
<td>28.45</td>
<td>30.7</td>
<td>N/A</td>
<td>Joules/g</td>
</tr>
<tr>
<td>95000068</td>
<td>C-201</td>
<td>2 SAMPLE</td>
<td>S95T000895 0</td>
<td>DSC-01</td>
<td>SOLID</td>
<td>N/A</td>
<td>546.6</td>
<td>Joules/g</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95000068</td>
<td>C-201</td>
<td>3 DUP</td>
<td>S95T000895 0</td>
<td>DSC-01</td>
<td>SOLID</td>
<td>546.6</td>
<td>615.6</td>
<td>N/A</td>
<td>Joules/g</td>
<td></td>
</tr>
<tr>
<td>95000068</td>
<td>C-201</td>
<td>4 SAMPLE</td>
<td>S95T000898 0</td>
<td>DSC-01</td>
<td>SOLID</td>
<td>N/A</td>
<td>339.2</td>
<td>Joules/g</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95000068</td>
<td>C-201</td>
<td>5 DUP</td>
<td>S95T000898 0</td>
<td>DSC-01</td>
<td>SOLID</td>
<td>339.2</td>
<td>402.4</td>
<td>N/A</td>
<td>Joules/g</td>
<td></td>
</tr>
</tbody>
</table>

Final page for worklist # 1376

Verified by: Blandina Valenzuela 5/23/95

S95T000895 produced two endotherms one at 79.1°C with a delta H of 140.1 J/g and second at 405.3°C with a delta H of 10.3 J/g. Additional analysis were run and will be reported on an additional table.

S95T000898 produced two endotherms one at 83.0°C with a delta H of 200.3 J/g and second at 437.5°C with a delta H of 19.1 J/g. The values reported in LABCORE are the sum of two exotherms, the chemist was directed to report them as such. Additional analysis were performed on this sample and the results will be reported on an additional table.

Data Entry Comments: Both samples were a creamy brown soil.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.
DSC STD 12N14-A

File: 00087.001
DSC METTLER 13-May-95

6.580 mg
Rate: 10.0 °C/min
Ident: 0.0
222-S Laboratory

Integration
Delta H 202 mJ
30.7 J/g
Peak 158.6 °C
-13.4 mW

Blanding Valenzuela for DCD

120. 140. 160. 180. °C
Integration
Delta H 2346 mJ
200.6 J/g
Peak 83.0°C
-6.6 mW

Integration
Delta H 990 mJ
84.7 J/g
Peak 269.7°C
4.6 mW

Integration
Delta H 2978 mJ
254.5 J/g
Peak 344.0°C
7.0 mW

Integration
Delta H 223 mJ
19.1 J/g
Peak 437.5°C
-1.1 mW
Integration
Delta H 573 mJ
88.8 J/g
Peak 77.0°C
-2.7 mW

Integration
Delta H 952 mJ
147.6 J/g
Peak 289.5°C
4.0 mW

Integration
Delta H 1643 mJ
254.8 J/g
Peak 347.6°C
4.2 mW
LABCORE Data Entry Template for Worklist# 1459

**Analyst:** BDV  **Instrument:** DSCO  **Book #** ----

**Method:** LA-514-113 Rev/Mod ----

**Worklist Comment:** Calculated dry DSC for C-201. bdv

<table>
<thead>
<tr>
<th>GROUP</th>
<th>PROJECT</th>
<th>S TYPE</th>
<th>SAMPLE#</th>
<th>R</th>
<th>A</th>
<th>MATRIX</th>
<th>ACTUAL</th>
<th>FOUND</th>
<th>DL</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>95000068</td>
<td>C-201</td>
<td>1 SAMPLE</td>
<td>095T000895</td>
<td>0</td>
<td></td>
<td>DSC-02</td>
<td>N/A</td>
<td>609</td>
<td></td>
<td>Joules/g Dry</td>
</tr>
<tr>
<td>95000068</td>
<td>C-201</td>
<td>2 DUP</td>
<td>095T000895</td>
<td>0</td>
<td></td>
<td>DSC-02</td>
<td>N/A</td>
<td>609 685</td>
<td>N/A</td>
<td>Joules/g Dry</td>
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<tr>
<td>95000068</td>
<td>C-201</td>
<td>3 SAMPLE</td>
<td>095T000898</td>
<td>0</td>
<td></td>
<td>DSC-02</td>
<td>N/A</td>
<td>381</td>
<td></td>
<td>Joules/g Dry</td>
</tr>
<tr>
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<td>C-201</td>
<td>4 DUP</td>
<td>095T000898</td>
<td>0</td>
<td></td>
<td>DSC-02</td>
<td>N/A</td>
<td>381 452</td>
<td>N/A</td>
<td>Joules/g Dry</td>
</tr>
</tbody>
</table>

Final page for worklist # 1459

Data entered and verified by

Blandina Valenzuela 5/30/95

Data Entry Comments:

---

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.
<table>
<thead>
<tr>
<th>SAMPLE NO.</th>
<th>DSC RESULT (J/g)</th>
<th>TGA RESULT (% water)</th>
<th>DRY DSC RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>S95TO10895</td>
<td>346.6</td>
<td>10.18</td>
<td>609</td>
</tr>
<tr>
<td>895D</td>
<td>615.6</td>
<td>10.18</td>
<td>685</td>
</tr>
<tr>
<td>895</td>
<td>420.6</td>
<td>10.18</td>
<td>802</td>
</tr>
<tr>
<td>895</td>
<td>444.9</td>
<td>10.18</td>
<td>495</td>
</tr>
<tr>
<td>89500898</td>
<td>339.2</td>
<td>11.00</td>
<td>381</td>
</tr>
<tr>
<td>898D</td>
<td>402.4</td>
<td>11.00</td>
<td>452</td>
</tr>
<tr>
<td>898</td>
<td>681.8</td>
<td>11.00</td>
<td>5813.76</td>
</tr>
<tr>
<td>898</td>
<td>591.3</td>
<td>11.00</td>
<td>664</td>
</tr>
</tbody>
</table>

* not in LABCORE

Data verified by

Blandina Valenzuela

6/13/95

17
ADDITIONAL DSC ANALYSES
FOR SAMPLES 95T000895 AND S95T000898
(These results could not be entered into Labcore)
DSC STD 12N14-A
6.746 mg
Rate: 10.0 °C/min

Integration
Delta H 206 mJ
30.6 J/g
Peak 158.5 °C
-14.6 mW
S95T000895 (DUP) N2
10.449 mg  Rate: 10.0 °C/min

Integration
Delta H  329 mJ
31.5 J/g
Peak  407.1°C
-2.8 mW

Integration
Delta H  943 mJ
90.2 J/g
Peak  79.0°C
-2.6 mW

Integration
Delta H  4649 mJ
444.9 J/g
Peak  331.7°C
7.4 mW
Integration
Delta H 971 mJ
88.8 J/g
Peak 86.9°C
-4.0 mW

Integration
Delta H 24 mJ
2.2 J/g
Peak 415.3°C
-0.5 mW

Integration
Delta H 2793 mJ
255.3 J/g
Peak 287.6°C
6.8 mW

Integration
Delta H 4665 mJ
426.5 J/g
Peak 346.0°C
10.7 mW

S95T000898 N2
10.939 mg
Rate: 10.0 °C/min
Ident: 0.0
222-S Laboratory

File: 00107.001 DSC METTLER 15-May-95
S95T000898 (DUP) N2
10.015 mg Rate: 10.0 °C/min
Integration
Delta H 2538 mJ
91.0 J/g
Peak 287.6°C
6.1 mW

Integration
Delta H 3384 mJ
337.9 J/g
Peak 347.8°C
7.6 mW

File: 00108.001 DSC METTLER 15-May-95
Ident: 0.0 222-S Laboratory
**LABCORE Data Entry Template for Worklist# 1372**

**Analyst:** DCO  
**Instrument:** TGA0 1  
**Book #** 9208-A

**Method:** LA-560-112 Rev/Mod A-2

**Worklist Comment:** Please run C-201 TGA under N2. bdv

<table>
<thead>
<tr>
<th>GROUP</th>
<th>PROJECT</th>
<th>S TYPE</th>
<th>SAMPLE#</th>
<th>R A</th>
<th>MATRIX</th>
<th>ACTUAL</th>
<th>FOUND</th>
<th>DL</th>
<th>UNIT</th>
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<tr>
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<td>58.70</td>
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<td>%</td>
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<td>2 SAMPLE</td>
<td>S95T000895</td>
<td>0</td>
<td>TGA-01</td>
<td>SOLID</td>
<td>N/A</td>
<td>10.69</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>95000068 C-201</td>
<td>3 DUP</td>
<td>S95T000895</td>
<td>0</td>
<td>TGA-01</td>
<td>SOLID</td>
<td>10.69</td>
<td>9.67</td>
<td>N/A</td>
<td>%</td>
</tr>
<tr>
<td>95000068 C-201</td>
<td>4 SAMPLE</td>
<td>S95T000898</td>
<td>0</td>
<td>TGA-01</td>
<td>SOLID</td>
<td>N/A</td>
<td>11.46</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>95000068 C-201</td>
<td>5 DUP</td>
<td>S95T000898</td>
<td>0</td>
<td>TGA-01</td>
<td>SOLID</td>
<td>11.46</td>
<td>10.53</td>
<td>N/A</td>
<td>%</td>
</tr>
</tbody>
</table>

---

**Final page for worklist # 1372**

**Analyst Signature**  
5/15/95  
**Date**  
5/23/95  
**Verifed by** Blandina Valenzuela 5/23/95

In all case the percent water was determined by averaging weight at what temp the water loss was complete on the DSC and using that temp as T2 for the TGA.

**Data Entry Comments:**  
Both sample were a creamy brown soil

S95T000895 produced a second weight loss step of 16.91% at 599°C

S95T000898 produced a second weight loss step of 15.89% at 300°C.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.
Step Analysis
Height: 11.56 mg
-58.70%
Resid: 8.14 mg
41.30%
Dpeak: 89.2°C
Step Analysis
Height -0.65 mg
-10.69 %
ResiC. 5.42 mg
89.20 %

Step Analysis
Height -1.03 mg
-16.91 %
ResiC. 4.37 mg
71.92 %
Dpeak 399.0°C
S95T000895 (DUP) N2
7.942 mg

Rate: 10.0 °C/min

Step Analysis
Height -0.77 mg
-9.67 %
ResiC. 7.16 mg
90.21 %

File: 00092.001
TG METTLER 13-May-95
Ident: 92.0
222-S Laboratory

Step Analysis
Height -1.19 mg
-15.00 %
ResiC. 5.97 mg
75.21 %
Dpeak 399.0 °C
Step Analysis
Height: -1.08 mg
-11.46%
Resid. C: 8.37 mg
88.40%
Dpeak: 44.2°C

Step Analysis
Height: -1.50 mg
-15.89%
Resid. C: 6.85 mg
72.40%
ADDITIONAL TGA ANALYSES
FOR SAMPLE 95T000895
(These results could not be entered into Labcore)
Step Analysis
Height -1.18 mg
-6.38 %
ResiC. 17.25 mg
93.58 %

Step Analysis
Height -2.56 mg
-13.91 %
ResiC. 14.69 mg
79.66 %
Dpeak 423.0°C
S95T000895 DUP N2
17.050 mg
Rate: 10.0 °C/min
Ident: 0.0
222-S Laboratory

Step Analysis
Height -2.12 mg
-12.42 %
ResiC: 14.92 mg
87.51 %

Step Analysis
Height -2.29 mg
-13.41 %
ResiC: 12.60 mg
73.90 %