Pinellas Environmental Restoration Project

Data Report for Overburden Soil at the Northeast Site and 4.5 Acre Site

July 2009
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1.0 Introduction

In June 2009, the U.S. Department of Energy (DOE) completed source removal activities at the Northeast Site at the Young - Rainey Science, Technology, and Research Center (STAR Center) and the adjacent 4.5 Acre Site using the large-diameter auger (LDA) method to excavate soil that was a source of contamination to groundwater. The LDA process involves driving a casing into the ground, augering out the soil within the casing, then backfilling the hole with a low-strength concrete. Based on detailed characterization activities conducted prior to excavation, a significant volume of clean soil overlay the contaminated soil. This clean soil was segregated during LDA and stockpiled separately; this soil was not used as fill because the low strength concrete fills the entire excavated volume.

Before this overburden soil was spread across the ground surface (4.5 Acre Site) or stockpiled for potential other uses, DOE wanted to ensure that the soil meets all applicable criteria for clean soil. Therefore, a Sampling and Analysis Plan for Overburden Soil at the Northeast Site and 4.5 Acre Site (DOE 2009) was written. The overburden soil stockpiles at each site were sampled on June 2, 2009. This Data Report presents the results of the soil analyses.

2.0 Sampling and Analysis

Sampling and analysis of the overburden soil was conducted in accordance with guidance provided in Chapter 62-713 Florida Administrative Code (F.A.C.), “Soil Treatment Facilities.” The sampling procedure is described in the Sampling and Analysis Plan for Overburden Soil at the Northeast Site and 4.5 Acre Site (DOE 2009). However, minor field modifications were made to the procedure listed in the plan, so the procedure is briefly summarized in the following text.

The clean soil stockpiles at each site were of similar size (4,465 cubic yards at the 4.5 Acre Site and 4,667 cubic yards at the Northeast Site), and each pile was visually divided into 12 equal sections by volume. One grab sample for volatile organic compounds (VOCs) analysis and one grab sample for metals analysis was collected from each section. A hand auger was used to dig into the stockpile to a depth of at least 2 feet below the surface of the pile. Once the required depth was reached, the hand auger was used to collect an aliquot of soil. A TerraCore sampler was used to collect a sample from this aliquot for VOCs analysis. Sample collection was executed as quickly as possible to minimize loss of VOCs. Subsequently, a soil sample for metals analysis was collected by placing another aliquot of soil into a 4-ounce plastic jar. These soil sampling procedures comply with Florida Department of Environmental Protection (FDEP) requirements.

The soil samples were analyzed using U.S. Environmental Protection Agency SW-846 Methods 8260b for VOCs and 6010b for metals. The analyzed metals were arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver, as defined in Chapter 62-713.510(5)(b) F.A.C. The soil samples were analyzed by TestAmerica-Tampa, a Florida-certified analytical laboratory.
3.0 Results and Data Evaluation

The analytical results for the Northeast Site and 4.5 Acre Site are listed in Tables 1 and 2, and the laboratory reports for both sites are included as Attachment A.

The analytical results for both VOCs and total metals were evaluated using the guidance in 62-713.510 and 62-713.520 F.A.C.

- Analytical results were compared to Residential Direct Exposure soil cleanup target levels (CTLs) listed in Table II of Chapter 62-777, F.A.C.
- Analytical results were compared to soil CTLs for Leachability Based on Groundwater Criteria listed in Table II of Chapter 62-777, F.A.C.
- Analytical results were compared to soil CTLs for Leachability Based on Freshwater Surface Water Criteria listed in Table II of Chapter 62-777, F.A.C.
- The metals results were also compared to twice the site-specific average background concentration. These average background metals concentrations were defined in the Historical Review and Evaluation of Contaminants of Potential Concern (DOE 2003), a document approved by FDEP.

3.1 Northeast Site

For the Northeast Site overburden soil, no concentrations exceeded the residential direct exposure CTL (Table 1). The concentrations of mercury, silver, and trichloroethene slightly exceeded their respective CTLs for leachability based on groundwater criteria in one sample (but a different sample for each analyte). These exceedances are of no concern as long as the soil remains on site, because the on-site CTL is actually that for poor-quality groundwater, which is 10 times the regular CTL, and concentrations do not exceed this poor-quality CTL.

Concentrations of chromium, mercury, selenium, and silver in several samples exceeded their respective CTLs for leachability based on freshwater surface water criteria. However, the chromium and selenium exceedances were all less than twice the average background concentration, so those concentrations should be considered as background and therefore are not of concern. Ultimately, the exceedances of the mercury and silver freshwater CTLs are of very limited concern, because it is unlikely that significant amounts of these metals will leach from the soil into the East Pond. The Northeast Site is relatively flat, and the majority of leachate infiltrates into the subsurface instead of running off into the pond. Currently, the overburden soil at the Northeast Site remains in its stockpile in the northern portion of the site. The stockpile was seeded with grass to prevent erosion.

3.2 4.5 Acre Site

Only arsenic in one sample exceeded the residential direct exposure CTL, but this concentration was less than twice the background average concentration and therefore is not of concern. Only methylene chloride in one sample exceeded the CTL for leachability based on groundwater criteria. This concentration is of limited concern because it most likely is a result of laboratory contamination. Methylene chloride is a common laboratory contaminant and has been detected rarely at the 4.5 Acre Site. All detections were at very low concentrations. In addition, it is likely
that any methylene chloride potentially remaining in the soil quickly volatilized into the atmosphere as the soil was graded across the site.

Concentrations of chromium, mercury, and selenium in several samples exceeded their respective CTLs for leachability based on freshwater surface water criteria. The concentrations of chromium and selenium were less than twice the background average and therefore are not of concern. The mercury exceedances are of limited concern because the site has no surface water, and a berm located between the edge of the 4.5 Acre Site and the pond just north of the site prevents leaching of these metals into surface water. The overburden soil at the 4.5 Acre Site was graded evenly across the site surface and revegetated.

### 4.0 References


Table 1. Summary of Analytical Results for Detected Analytes in the Overburden Soil at the Northeast Site. Metals are in units of milligrams per kilogram, and VOCs are in units of micrograms per kilogram. Pink shading identifies concentrations that exceed the CTL for leachability based on groundwater criteria, and yellow shading identifies concentrations that exceed the CTL for leachability based on surface water criteria.

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All: U or ND = not detected
Metals: B = estimated value
Organics: J = estimated value
Table 2. Summary of Analytical Results for Detected Analytes in the Overburden Soil at the 4.5 Acre Site.

*Metals are in units of milligrams per kilogram, and VOCs are in units of micrograms per kilogram. Red shading identifies concentrations that exceed the residential direct exposure CTL, pink shading identifies concentrations that exceed the CTL for leachability based on groundwater criteria, and yellow shading identifies concentrations that exceed the CTL for leachability based on surface water criteria.*

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All: U or ND = not detected
Metals: B = estimated value
Organics: J = estimated value
Attachment A

Laboratory Reports
ANALYTICAL REPORT

Job Number: 660-29744-1
Job Description: Star Center NE Site

For:
S.M. Stoller Corporation
2597 B 3/4 Road
Grand Junction, CO 81503
Attention: Mr. Charles Tabor

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.
Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The Batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 80032 were outside control limits for Chlorobenzene. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260B: The Batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 80048 were outside control limits for Trichloro(1,1,1)-trifluoroethane. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Metals
Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 80203 associated with sample PIN15-CP-L1 were outside control limits. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.
## EXECUTIVE SUMMARY - Detections

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**Job Number:**  660-29744-1

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| **660-29744-3** | PIN15-CP-L1       |                    |                 |         |         |
| Arsenic       | 0.77             | 0.55               | mg/Kg           | 6010B   |         |
| Barium        | 10               | 1.1                | mg/Kg           | 6010B   |         |
| Chromium      | 5.5              | 1.1                | mg/Kg           | 6010B   |         |
| Lead          | 4.8              | 0.55               | mg/Kg           | 6010B   |         |
| Selenium      | 0.43 B           | 1.1                | mg/Kg           | 6010B   |         |
| Silver        | 0.54 B           | 1.1                | mg/Kg           | 6010B   |         |
| Mercury       | 0.25             | 0.073              | mg/Kg           | 7471A   |         |

| **660-29744-4** | PIN15-CP-L2       |                    |                 |         |         |
| cis-1,2-Dichloroethylene | 21               | 5.0                | ug/Kg           | 8260B   |         |
| Methylene Chloride      | 6.8              | 5.0                | ug/Kg           | 8260B   |         |
| Toluene                  | 38               | 5.0                | ug/Kg           | 8260B   |         |
| Trichloroethylene        | 2.2 J            | 5.0                | ug/Kg           | 8260B   |         |
| Arsenic                  | 0.69             | 0.57               | mg/Kg           | 6010B   |         |
| Barium                   | 7.9              | 1.1                | mg/Kg           | 6010B   |         |
| Chromium                 | 4.3              | 1.1                | mg/Kg           | 6010B   |         |
| Lead                     | 3.1              | 0.57               | mg/Kg           | 6010B   |         |
| Selenium                 | 0.42 B           | 1.1                | mg/Kg           | 6010B   |         |
| Mercury                  | 0.13             | 0.076              | mg/Kg           | 7471A   |         |

| **660-29744-5** | PIN15-CP-L3       |                    |                 |         |         |
| cis-1,2-Dichloroethylene | 24               | 5.0                | ug/Kg           | 8260B   |         |
| Methylene Chloride      | 4.4 J            | 5.0                | ug/Kg           | 8260B   |         |
| Toluene                  | 32               | 5.0                | ug/Kg           | 8260B   |         |
| Trichloroethylene        | 89               | 5.0                | ug/Kg           | 8260B   |         |
| Arsenic                  | 0.71             | 0.56               | mg/Kg           | 6010B   |         |
| Barium                   | 9.7              | 1.1                | mg/Kg           | 6010B   |         |
| Chromium                 | 5.5              | 1.1                | mg/Kg           | 6010B   |         |
| Lead                     | 3.8              | 0.56               | mg/Kg           | 6010B   |         |
| Selenium                 | 0.54 B           | 1.1                | mg/Kg           | 6010B   |         |
| Mercury                  | 0.16             | 0.075              | mg/Kg           | 7471A   |         |

_**TestAmerica Tampa**_
## EXECUTIVE SUMMARY - Detections

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

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Job Number:  660-29744-1

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## EXECUTIVE SUMMARY - Detections

**Client:**  S.M. Stoller Corporation  
**Job Number:**  660-29744-1

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|               |                  | Chromium   | 6.5                | 1.1             | mg/Kg | 6010B  |
|               |                  | Lead       | 4.1                | 0.57            | mg/Kg | 6010B  |
|               |                  | Silver     | 0.23 B             | 1.1             | mg/Kg | 6010B  |
|               |                  | Mercury    | 0.11               | 0.076           | mg/Kg | 7471A  |
## METHOD SUMMARY

Client: S.M. Stoller Corporation

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**Lab References:**

TAL TAM = TestAmerica Tampa

**Method References:**

## METHOD / ANALYST SUMMARY

Client:  S.M. Stoller Corporation
Job Number:  660-29744-1

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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

### Client Sample ID: PIN15-TRP2

- **Lab Sample ID:** 660-29744-1  
- **Date Sampled:** 06/02/2009  
- **Date Received:** 06/02/2009

**Client Matrix:** Water  
**Date Prepared:** 06/04/2009  
**Date Analyzed:** 06/04/2009

### 8260B Volatile Organic Compounds (GC/MS)

<table>
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<tr>
<th>Analyte</th>
<th>Result (ug/L)</th>
<th>Qualifier</th>
<th>MDL</th>
<th>PQL</th>
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**TestAmerica Tampa**  
**Page 10 of 59**  
**06/08/2009**
### 8260B Volatile Organic Compounds (GC/MS)

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### Surrogate

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<th>Surrogate</th>
<th>%Rec</th>
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<tbody>
<tr>
<td>4-Bromofluorobenzene</td>
<td>103</td>
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<td>Dibromofluoromethane</td>
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<td>Toluene-d₈ (Surr)</td>
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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

**Client Sample ID:** PIN15-CP-L1  
**Lab Sample ID:** 660-29744-3  
**Client Matrix:** Solid  
**% Moisture:** 8.7

**Date Sampled:** 06/02/2009  
**Date Received:** 06/02/2009

### 8260B Volatile Organic Compounds (GC/MS)

**Method:** 8260B  
**Preparation:** 5035  
**Analysis Batch:** 660-80010  
**Prep Batch:** 660-79999  
**Instrument ID:** BVME GC/MS  
**Lab File ID:** 1EF0318.D

**Dilution:** 1.0  
**Initial Weight/Volume:** 5.17 g  
**Final Weight/Volume:** 5 mL

**Date Prepared:** 06/03/2009  
**Date Analyzed:** 06/03/2009

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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

### Client Sample ID: PIN15-CP-L2

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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

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### 8260B Volatile Organic Compounds (GC/MS)

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**Analytical Data**

Client: S.M. Stoller Corporation

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**8260B Volatile Organic Compounds (GC/MS)**

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Client: S.M. Stoller Corporation

Client Sample ID: PIN15-CP-L5

Lab Sample ID: 660-29744-7

Client Matrix: Solid

% Moisture: 11.3

Date Sampled: 06/02/2009

Date Received: 06/02/2009

Analytical Data

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Client: S.M. Stoller Corporation  
Job Number: 660-29744-1

**Client Sample ID:** PIN15-CP-L6  
**Lab Sample ID:** 660-29744-8

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**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

**Client Sample ID:** PIN15-CP-L7  
**Lab Sample ID:** 660-29744-9  
**Sample ID:** PIN15-CP-L7  
**Date Sampled:** 06/02/2009  
**Date Received:** 06/02/2009  
**Client Matrix:** Solid  
**% Moisture:** 10.7

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#### 8260B Volatile Organic Compounds (GC/MS)

**Method:** 8260B  
**Analysis Batch:** 660-80010  
**Preparation:** 5035  
**Prep Batch:** 660-79999  
**Instrument ID:** BVME GC/MS  
**Lab File ID:** 1EF0324.D  
**Dilution:** 1.0  
**Date Analyzed:** 06/03/2009  
**Date Prepared:** 06/03/2009  
**Initial Weight/Volume:** 5.28 g  
**Final Weight/Volume:** 5 mL

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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

**Client Sample ID:** PIN15-CP-L8  
**Lab Sample ID:** 660-29744-10  
**Client Matrix:** Solid  
**% Moisture:** 9.4

**Date Sampled:** 06/02/2009  
**Date Received:** 06/02/2009

---

### 8260B Volatile Organic Compounds (GC/MS)

**Method:** 8260B  
**Preparation:** 5035  
**Analysis Batch:** 660-80010  
**Prep Batch:** 660-79999  
**Instrument ID:** BVME GC/MS  
**Lab File ID:** 1EF0325.D

**Dilution:** 1.0  
**Initial Weight/Volume:** 5.39 g  
**Date Analyzed:** 06/03/2009 1723  
**Final Weight/Volume:** 5 mL  
**Date Prepared:** 06/03/2009 1333

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**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

### Client Sample ID: PIN15-CP-L9

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### 8260B Volatile Organic Compounds (GC/MS)

**Method:** 8260B  
**Analysis Batch:** 660-80010  
**Instrument ID:** BVME GC/MS  
**Preparation:** 5035  
**Prep Batch:** 660-79999  
**Lab File ID:** 1EF0326.D  
**Dilution:** 1.0  
**Initial Weight/Volume:** 5.2 g  
**Final Weight/Volume:** 5 mL

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### Surrogate

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**Client Sample ID:** PIN15-CP-L10  
**Lab Sample ID:** 660-29744-12  
**Client Matrix:** Solid  
**% Moisture:** 11.2  
**Date Sampled:** 06/02/2009  
**Date Received:** 06/02/2009  
**Date Analyzed:** 06/03/2009  
**Date Prepared:** 06/03/2009

## 8260B Volatile Organic Compounds (GC/MS)

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## Surrogate

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Client: S.M. Stoller Corporation

**Client Sample ID:** PIN15-CP-L11

**Lab Sample ID:** 660-29744-13

**Client Matrix:** Solid

**% Moisture:** 11.5

**Date Sampled:** 06/02/2009

**Date Received:** 06/02/2009

**PIN:** 15-CP-L11

**Date Prepared:** 06/03/2009

**Date Analyzed:** 06/03/2009

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### 8260B Volatile Organic Compounds (GC/MS)

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**Surrogate**

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**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

### Sample Details

- **Client Sample ID:** PIN15-CP-DUP2
- **Lab Sample ID:** 660-29744-15
- **Client Matrix:** Solid
- **% Moisture:** 11.6
- **Date Sampled:** 06/02/2009
- **Date Received:** 06/02/2009

### Analytical Details

- **Method:** 8260B
- **Analysis Batch:** 660-80032
- **Preparation:** 5035
- **Prep Batch:** 660-79999
- **Dilution:** 1.0
- **Date Prepared:** 06/03/2009
- **Date Analyzed:** 06/03/2009

### Results

**8260B Volatile Organic Compounds (GC/MS)**

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**TestAmerica Tampa**  
**Page 24 of 59**  
**06/08/2009**
## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

### Client Sample ID: PIN15-EQB2

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### 6010B Metals (ICP)-Total Recoverable

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## Analytical Data

### Client: S.M. Stoller Corporation

**Job Number:** 660-29744-1

**Client Sample ID:** PIN15-CP-L1

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### 7471A Mercury (CVAA)

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### 6010B Metals (ICP)

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### 7471A Mercury (CVAA)

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### 7471A Mercury (CVAA)

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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

**Client Sample ID:** PIN15-CP-L4  
**Lab Sample ID:** 660-29744-6  
**Client Matrix:** Solid  
**% Moisture:** 11.4  
**Date Sampled:** 06/02/2009 1421  
**Date Received:** 06/02/2009 1723

### 6010B Metals (ICP)

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<td>U</td>
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### 7471A Mercury (CVAA)

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**TestAmerica Tampa**  
**Page 29 of 59**  
**06/08/2009**
## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

### Client Sample ID: PIN15-CP-L5

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#### 6010B Metals (ICP)

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<td>3050B</td>
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**Analyte** | **DryWt Corrected:** | **Result (mg/Kg)** | **Qualifier** | **MDL** | **PQL**
---|-----------------|-----------------|-------------|--------|--------|
Asbestos  | 0.76            | 0.26            | U           | 0.56   |        |
Barium    | 13              | 0.18            |             | 1.1    |        |
Cadmium   | 0.098           | U               | 0.098       | 0.56   |        |
Silver    | 0.26            | B               | 0.21        | 1.1    |        |

#### 7471A Mercury (CVAA)

<table>
<thead>
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<th>Method</th>
<th>Prep Batch</th>
<th>Date Analyzed</th>
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<td>7471A</td>
<td>660-80203</td>
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**Analyte** | **DryWt Corrected:** | **Result (mg/Kg)** | **Qualifier** | **MDL** | **PQL**
---|-----------------|-----------------|-------------|--------|--------|
Chromium  | 7.7             | 0.38            |             | 2.3    |        |
Lead      | 4.6             | 0.34            |             | 1.1    |        |
Selenium  | 0.83            | U               | 0.83        | 2.3    |        |

**Mercury** | **DryWt Corrected:** | **Result (mg/Kg)** | **Qualifier** | **MDL** | **PQL**
---|-----------------|-----------------|-------------|--------|--------|
0.15        | 0.028           | 0.076           |             |        |        |
## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

**Client Sample ID:** PIN15-CP-L6

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### 6010B Metals (ICP)

**Method:** 6010B  
**Preparation:** 3050B  
**Dilution:** 1.0  
**Date Analyzed:** 06/04/2009 1133  
**Date Prepared:** 06/04/2009 0646

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### 7471A Mercury (CVAA)

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**Dilution:** 1.0  
**Date Analyzed:** 06/08/2009 1306  
**Date Prepared:** 06/08/2009 1049

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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

### Client Sample ID: PIN15-CP-L7

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**Client Matrix:** Solid  
**Date Sampled:** 06/02/2009  
**Date Received:** 06/02/2009

### 6010B Metals (ICP)

**Method:** 6010B  
**Preparation:** 3050B  
**Dilution:** 1.0  
**Date Analyzed:** 06/04/2009  
**Date Prepared:** 06/04/2009

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### 7471A Mercury (CVAA)

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**Dilution:** 1.0  
**Date Analyzed:** 06/08/2009  
**Date Prepared:** 06/08/2009

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<td>0.98</td>
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<td></td>
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<td>Cadmium</td>
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### 7471A Mercury (CVAA)

<table>
<thead>
<tr>
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<th>PQL</th>
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Client: S.M. Stoller Corporation

Job Number: 660-29744-1

Client Sample ID: PIN15-CP-L8

Lab Sample ID: 660-29744-10

% Moisture: 9.4

Date Sampled: 06/02/2009 1511

Date Received: 06/02/2009 1723

Lab Sample ID: 660-29744-1

Client Matrix: Solid

Date Prepared: 06/04/2009 0646

Initial Weight/Volume: 1.0 g

Final Weight/Volume: 50 mL
Analytical Data

Client: S.M. Stoller Corporation
Job Number: 660-29744-1

Client Sample ID: PIN15-CP-L9
Lab Sample ID: 660-29744-11
Client Matrix: Solid
% Moisture: 8.3

Lab Sample ID: 660-29744-11
Date Sampled: 06/02/2009 1519
Date Received: 06/02/2009 1723

### 6010B Metals (ICP)

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<th>MDL</th>
<th>PQL</th>
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### 7471A Mercury (CVAA)

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<th>PQL</th>
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### Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

**Client Sample ID:** PIN15-CP-L10

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#### 6010B Metals (ICP)

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<td>Prep Batch:</td>
<td>660-80034</td>
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<tr>
<td>Dilution:</td>
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<td>Lab File ID:</td>
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<tr>
<td>Date Analyzed:</td>
<td>06/04/2009 1151</td>
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<td>Date Prepared:</td>
<td>06/04/2009 0646</td>
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<td>Instrument ID:</td>
<td>TJA ICP</td>
<td>Initial Weight/Volume:</td>
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<td>Final Weight/Volume:</td>
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<td>1.1</td>
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<td>0.21</td>
<td>U</td>
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<td>Silver</td>
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#### 7471A Mercury (CVAA)

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<tbody>
<tr>
<td>Preparation</td>
<td>7471A</td>
<td>Prep Batch:</td>
<td>660-80203</td>
</tr>
<tr>
<td>Dilution:</td>
<td>1.0</td>
<td>Lab File ID:</td>
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</tr>
<tr>
<td>Date Analyzed:</td>
<td>06/08/2009 1320</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date Prepared:</td>
<td>06/08/2009 1049</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instrument ID:</td>
<td>Hg Analyzer</td>
<td>Initial Weight/Volume:</td>
<td>0.3 g</td>
</tr>
<tr>
<td>Final Weight/Volume:</td>
<td>50 mL</td>
<td></td>
<td></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Analyte</th>
<th>DryWt Corrected:</th>
<th>Result (mg/Kg)</th>
<th>Qualifier</th>
<th>MDL</th>
<th>PQL</th>
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**Analytical Data**

Client: S.M. Stoller Corporation  
Job Number: 660-29744-1

**Client Sample ID:** PIN15-CP-L11

<table>
<thead>
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<th>Lab Sample ID:</th>
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### 6010B Metals (ICP)

| Method: 6010B | Analysis Batch: 660-80076 | Instrument ID: TJA ICP |
| Preparation: 3050B | Prep Batch: 660-80034 | Lab File ID: 9F04B |
| Dilution: 1.0 | Initial Weight/Volume: 1.0 g |
| Date Analyzed: 06/04/2009 1156 | Final Weight/Volume: 50 mL |
| Date Prepared: 06/04/2009 0646 |

<table>
<thead>
<tr>
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<th>Result (mg/Kg)</th>
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<th>MDL</th>
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<tbody>
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<td>Arsenic</td>
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<td>0.56</td>
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</tr>
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<td>11</td>
<td>0.18</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
<td>0.098</td>
<td>U</td>
<td>0.098</td>
<td>0.56</td>
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</tr>
<tr>
<td>Chromium</td>
<td>8.0</td>
<td>0.19</td>
<td></td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>4.4</td>
<td>0.17</td>
<td></td>
<td>0.56</td>
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### 7471A Mercury (CVAA)

| Method: 7471A | Analysis Batch: 660-80234 | Instrument ID: Hg Analyzer |
| Preparation: 7471A | Prep Batch: 660-80203 | Lab File ID: N/A |
| Dilution: 1.0 | Initial Weight/Volume: 0.3 g |
| Date Analyzed: 06/08/2009 1322 | Final Weight/Volume: 50 mL |
| Date Prepared: 06/08/2009 1049 |

<table>
<thead>
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<th>Result (mg/Kg)</th>
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<tr>
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# Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

**Client Sample ID:** PIN15-CP-L12

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## 6010B Metals (ICP)

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## 7471A Mercury (CVAA)

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<th>Result (mg/Kg)</th>
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**Method:** 6010B  
**Preparation:** 3050B  
**Dilution:** 1.0  
**Date Analyzed:** 06/04/2009  
**Date Prepared:** 06/04/2009

**Method:** 7471A  
**Preparation:** 7471A  
**Dilution:** 1.0  
**Date Analyzed:** 06/08/2009  
**Date Prepared:** 06/08/2009

**Analysis Batch:** 660-80234  
**Prep Batch:** 660-80203  
**Instrument ID:** TJA ICP  
**Lab File ID:** 9F04B  
**Initial Weight/Volume:** 1.0 g  
**Final Weight/Volume:** 50 mL

**Analysis Batch:** 660-80234  
**Prep Batch:** 660-80203  
**Instrument ID:** Hg Analyzer  
**Lab File ID:** N/A  
**Initial Weight/Volume:** 0.3 g  
**Final Weight/Volume:** 50 mL

---

TestAmerica Tampa  
**Page 37 of 59**  
**06/08/2009**
**Analytical Data**

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

**Client Sample ID:** PIN15-CP-DUP2

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### 6010B Metals (ICP)

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### 7471A Mercury (CVAA)

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<td>MS or MSD exceeds the control limits</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>B</td>
<td>Value less than contract required detection limit but greater than or equal to the Method Detection Limit</td>
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</table>
## Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-79977

<table>
<thead>
<tr>
<th>MS Lab Sample ID</th>
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<th>Date Prepared</th>
<th>Instrument ID</th>
<th>Lab File ID</th>
<th>Initial Weight/Volume</th>
<th>Final Weight/Volume</th>
</tr>
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<tbody>
<tr>
<td>660-29729-E-1-B MS</td>
<td>660-80032</td>
<td>Solid</td>
<td>1.0</td>
<td>06/03/2009</td>
<td>06/04/2009</td>
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### Analyte Results

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<th>MSD %</th>
<th>Limit</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>MS Qual</th>
<th>MSD Qual</th>
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</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>68</td>
<td>77</td>
<td>49 - 142</td>
<td>23</td>
<td>42</td>
<td></td>
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<tr>
<td>Chlorobenzene</td>
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<td>65</td>
<td>66 - 135</td>
<td>19</td>
<td>34</td>
<td>*</td>
<td>*</td>
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<tr>
<td>1,1-Dichloroethylene</td>
<td>58</td>
<td>65</td>
<td>40 - 164</td>
<td>22</td>
<td>46</td>
<td></td>
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<tr>
<td>Toluene</td>
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<td>74</td>
<td>38 - 158</td>
<td>20</td>
<td>32</td>
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<tr>
<td>Trichloroethylene</td>
<td>63</td>
<td>71</td>
<td>51 - 146</td>
<td>22</td>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
### Quality Control Results

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

#### Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-79999

<table>
<thead>
<tr>
<th>MS Lab Sample ID</th>
<th>Analysis Batch</th>
<th>Prep Batch</th>
<th>Instrument ID</th>
<th>Lab File ID</th>
<th>Initial Weight/Volume</th>
<th>Final Weight/Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>660-29744-3</td>
<td>660-80010</td>
<td>660-79999</td>
<td>BVME GC/MS</td>
<td>1EF0329.D</td>
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</table>

<table>
<thead>
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<th>Date Prepared</th>
</tr>
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<td>Solid</td>
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<td>06/03/2009 1851</td>
<td>06/04/2009 0849</td>
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<table>
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<th>Prep Batch</th>
<th>Instrument ID</th>
<th>Lab File ID</th>
<th>Initial Weight/Volume</th>
<th>Final Weight/Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>660-29744-3</td>
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<th>Date Prepared</th>
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<td>06/04/2009 0849</td>
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#### Analyte

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<th>MS</th>
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<th>Limit</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>MS Qual</th>
<th>MSD Qual</th>
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<td>79</td>
<td>66 - 135</td>
<td>16</td>
<td>34</td>
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<td>1,1-Dichloroethylene</td>
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<td>83</td>
<td>40 - 164</td>
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<td>46</td>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
## Quality Control Results

Client: S.M. Stoller Corporation  
Job Number: 660-29744-1

### Method Blank - Batch: 660-80010

<table>
<thead>
<tr>
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<th>Analysis Batch:</th>
<th>Instrument ID: BVME GC/MS</th>
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<tbody>
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<table>
<thead>
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<tr>
<td>Solid</td>
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<table>
<thead>
<tr>
<th>Dilution:</th>
<th>Units: ug/Kg</th>
<th>Final Weight/Volume: 5 mL</th>
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<tbody>
<tr>
<td>1.0</td>
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<table>
<thead>
<tr>
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<th></th>
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</thead>
<tbody>
<tr>
<td>06/03/2009 1343</td>
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<table>
<thead>
<tr>
<th>Date Prepared:</th>
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</thead>
<tbody>
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### Method: 8260B  
Preparation: N/A

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<th>Result</th>
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<th>MDL</th>
<th>PQL</th>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
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<tr>
<td>Bromodichloromethane</td>
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<td>U</td>
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<tr>
<td>Bromoform</td>
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<td>U</td>
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<td>5.0</td>
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<tr>
<td>Carbon tetrachloride</td>
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<td>U</td>
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<tr>
<td>Chlorobenzene</td>
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<td>U</td>
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<td>5.0</td>
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<td>Chloroethane</td>
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<td>Chloroform</td>
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<td>2.5</td>
<td>5.0</td>
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<td>cis-1,2-Dichloroethylene</td>
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<td>2.5</td>
<td>5.0</td>
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<td>2.0</td>
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<td>5.0</td>
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<td>Dibromochloromethane</td>
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<td>Dichlorodifluoromethane</td>
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<td>1,1-Dichloroethane</td>
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<td>U</td>
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<td>1,2-Dichloroethane</td>
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<td>U</td>
<td>2.5</td>
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<td>1,2-Dichloropropane</td>
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<td>U</td>
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<td>5.0</td>
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<td>Ethylbenzene</td>
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<td>2.0</td>
<td>5.0</td>
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<tr>
<td>m-Dichlorobenzene</td>
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<tr>
<td>Methyl bromide</td>
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<td>U</td>
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<td>Methyl chloride</td>
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<td>U</td>
<td>2.5</td>
<td>10</td>
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<td>Methylene Chloride</td>
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<td>U</td>
<td>4.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Methyl tert-butyl ether</td>
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<td>5.0</td>
<td>10</td>
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<tr>
<td>n,p-Xylene</td>
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<td>U</td>
<td>3.0</td>
<td>10</td>
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<tr>
<td>o-Dichlorobenzene</td>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
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<tr>
<td>o-Xylene</td>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>p-Dichlorobenzene</td>
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<td>U</td>
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<td>1,1,2,2-Tetrachloroethane</td>
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<td>U</td>
<td>3.4</td>
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<td>U</td>
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<td>Toluene</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>trans-1,2-Dichloroethylene</td>
<td>2.5</td>
<td>U</td>
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<td>trans-1,3-Dichloropropene</td>
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<td>1,1,2-Trichloroethane</td>
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<td>U</td>
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<td>5.0</td>
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<td>Trichloroethylene</td>
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<td>U</td>
<td>2.1</td>
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<td>Vinyl chloride</td>
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<tr>
<th>Surrogate</th>
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<tr>
<td>Dibromofluoromethane</td>
<td>103</td>
<td>63 - 139</td>
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<td>4-Bromofluorobenzene</td>
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<td>Toluene-d8 (Surr)</td>
<td>98</td>
<td>67 - 138</td>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
## Lab Control Sample - Batch: 660-80010

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<th>Analyte</th>
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<th>Qual</th>
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<td>1,1-Dichloroethylene</td>
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<td>124</td>
<td>38 - 158</td>
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<tr>
<td>Trichloroethylene</td>
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<td>25.2</td>
<td>126</td>
<td>51 - 146</td>
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</tr>
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Quality Control Results

Client: S.M. Stoller Corporation

Method Blank - Batch: 660-80032

<table>
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<th>Result</th>
<th>Qual</th>
<th>MDL</th>
<th>PQL</th>
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<td>Benzene</td>
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<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>Bromodichloromethane</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>Bromoform</td>
<td>2.1</td>
<td>U</td>
<td>2.1</td>
<td>5.0</td>
</tr>
<tr>
<td>Carbon tetrachloride</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>Chloroethane</td>
<td>2.2</td>
<td>U</td>
<td>2.2</td>
<td>10</td>
</tr>
<tr>
<td>Chloroform</td>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>cis-1,2-Dichloroethylene</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>cis-1,3-Dichloropropene</td>
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<td>U</td>
<td>2.0</td>
<td>5.0</td>
</tr>
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<td>Dibromochloromethane</td>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
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<td>Dichlorodifluoromethane</td>
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<td>U</td>
<td>2.4</td>
<td>10</td>
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<tr>
<td>1,1-Dichloroethane</td>
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<td>U</td>
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<td>5.0</td>
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<tr>
<td>1,2-Dichloroethane</td>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>1,1-Dichloroethylene</td>
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<td>U</td>
<td>2.2</td>
<td>5.0</td>
</tr>
<tr>
<td>1,2-Dichloropropane</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
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<td>Ethylbenzene</td>
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<td>U</td>
<td>2.0</td>
<td>5.0</td>
</tr>
<tr>
<td>m-Dichlorobenzene</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>Methyl bromide</td>
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<td>U</td>
<td>3.6</td>
<td>10</td>
</tr>
<tr>
<td>Methyl chloride</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>10</td>
</tr>
<tr>
<td>Methylene Chloride</td>
<td>4.0</td>
<td>U</td>
<td>4.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Methyl tert-butyl ether</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
<td>10</td>
</tr>
<tr>
<td>m,p-Xylene</td>
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<td>U</td>
<td>3.0</td>
<td>10</td>
</tr>
<tr>
<td>o-Dichlorobenzene</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>o-Xylene</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>p-Dichlorobenzene</td>
<td>2.5</td>
<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane</td>
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<td>U</td>
<td>3.4</td>
<td>5.0</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
<td>3.0</td>
<td>U</td>
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Surrogate % Rec Acceptance Limits

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<td>4-Bromofluorobenzene</td>
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<td>Toluene-d8 (Surr)</td>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
## Quality Control Results

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

### Lab Control Sample - Batch: 660-80032

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| Analysis Batch: | 660-80032 |
| Prep Batch:     | N/A       |
| Units:          | ug/Kg     |

**Instrument ID:** BVMF GC/MS  
**Lab File ID:** 2FF0313.D

**Method:** 8260B  
**Preparation:** N/A

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Calculations are performed before rounding to avoid round-off errors in calculated results.
## Quality Control Results

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

### Method Blank - Batch: 660-80048

- **Lab Sample ID:** MB 660-80048/3  
- **Client Matrix:** Water  
- **Dilution:** 1.0  
- **Date Analyzed:** 06/04/2009 1131  
- **Date Prepared:** 06/04/2009 1131  

### Analysis Batch: 660-80048

- **Instrument ID:** BVMH GC/MS  
- **Lab File ID:** 1HF0413.D  
- **Initial Weight/Volume:** 5 mL  
- **Final Weight/Volume:** 5 mL

### Preparation: 5030B

- **Method:** 8260B  
- **Prep Batch:** N/A

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### Surrogate

- **% Rec:**
  - Dibromofluoromethane: 96
  - 4-Bromofluorobenzene: 101
  - Toluene-d8 (Surr): 95

### Acceptance Limits

- **Dibromofluoromethane:** 70 - 130
- **4-Bromofluorobenzene:** 70 - 130
- **Toluene-d8 (Surr):** 70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.
Quality Control Results

Client: S.M. Stoller Corporation
Job Number: 660-29744-1

Lab Control Sample - Batch: 660-80048

<table>
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<th>Analyte</th>
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<th>Result</th>
<th>% Rec.</th>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
### Quality Control Results

**Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-80048**

**Method:** 8260B  
**Preparation:** 5030B

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Calculations are performed before rounding to avoid round-off errors in calculated results.
## Quality Control Results

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29744-1

### Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-80048

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### Analyte Performance

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<th>RPD Limit</th>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
Quality Control Results

Client: S.M. Stoller Corporation
Job Number: 660-29744-1

Method Blank - Batch: 660-80034

Lab Sample ID: MB 660-80034/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/04/2009 1022
Date Prepared: 06/04/2009 0646

Analysis Batch: 660-80076
Prep Batch: 660-80034
Units: mg/Kg

Method: 6010B
Preparation: 3050B

Instrument ID: TJA ICP
Lab File ID: 9F04B
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

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Lab Control Sample - Batch: 660-80034

Lab Sample ID: LCS 660-80034/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/04/2009 1027
Date Prepared: 06/04/2009 0646

Analysis Batch: 660-80076
Prep Batch: 660-80034
Units: mg/Kg

Method: 6010B
Preparation: 3050B

Instrument ID: TJA ICP
Lab File ID: 9F04B
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

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<td>103</td>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
### Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-80034

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Calculations are performed before rounding to avoid round-off errors in calculated results.
## Quality Control Results

### Method Blank - Batch: 660-80092

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### Lab Control Sample - Batch: 660-80092

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Calculations are performed before rounding to avoid round-off errors in calculated results.
**Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-80092**

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**Method:** 6010B  
**Preparation:** 3005A  
**Total Recoverable**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

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<td>75 - 125</td>
<td>1</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver</td>
<td>101</td>
<td>75 - 125</td>
<td>1</td>
<td>20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Quality Control Results

Method Blank - Batch: 660-80219

Lab Sample ID: MB 660-80219/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2009 1555
Date Prepared: 06/08/2009 1317

Analysis Batch: 660-80244
Prep Batch: 660-80219
Units: mg/L

Analyte | Result | Qual | MDL | PQL
---|---|---|---|---
Mercury | 0.000072 | U | 0.000072 | 0.00020

Method: 7470A
Preparation: 7470A

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Lab Control Sample - Batch: 660-80219

Lab Sample ID: LCS 660-80219/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2009 1557
Date Prepared: 06/08/2009 1317

Analysis Batch: 660-80244
Prep Batch: 660-80219
Units: mg/L

Analyte | Spike Amount | Result | % Rec. | Limit | Qual
---|---|---|---|---|---
Mercury | 0.00100 | 0.000893 | 89 | 80 - 120 | 

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-80219

MS Lab Sample ID: 640-22207-F-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2009 1604
Date Prepared: 06/08/2009 1317

Analysis Batch: 660-80244
Prep Batch: 660-80219

Analyte | % Rec. | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual
---|---|---|---|---|---|---|---|---
Mercury | 92 | 90 | 80 - 120 | 2 | 20 | 

MSD Lab Sample ID: 640-22207-F-1-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2009 1606
Date Prepared: 06/08/2009 1317

Analysis Batch: 660-80244
Prep Batch: 660-80219

Analyte | % Rec. | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual
---|---|---|---|---|---|---|---|---
Mercury | 92 | 90 | 80 - 120 | 2 | 20 | 

Calculations are performed before rounding to avoid round-off errors in calculated results.
Quality Control Results

Job Number: 660-29744-1

Method Blank - Batch: 660-80203

<table>
<thead>
<tr>
<th>Lab Sample ID:</th>
<th>MB 660-80203/1-A</th>
<th>Analysis Batch:</th>
<th>660-80234</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client Matrix:</td>
<td>Solid</td>
<td>Prep Batch:</td>
<td>660-80203</td>
</tr>
<tr>
<td>Dilution:</td>
<td>1.0</td>
<td>Units:</td>
<td>mg/Kg</td>
</tr>
<tr>
<td>Date Analyzed:</td>
<td>06/08/2009 1239</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date Prepared:</td>
<td>06/08/2009 1049</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 0.3 g
Final Weight/Volume: 50 mL

Analyte | Result | Qual | MDL | PQL |
---------|--------|------|-----|-----|
Mercury  | 0.025  | U    | 0.025| 0.067|

Lab Control Sample - Batch: 660-80203

<table>
<thead>
<tr>
<th>Lab Sample ID:</th>
<th>LCS 660-80203/2-A</th>
<th>Analysis Batch:</th>
<th>660-80234</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client Matrix:</td>
<td>Solid</td>
<td>Prep Batch:</td>
<td>660-80203</td>
</tr>
<tr>
<td>Dilution:</td>
<td>1.0</td>
<td>Units:</td>
<td>mg/Kg</td>
</tr>
<tr>
<td>Date Analyzed:</td>
<td>06/08/2009 1241</td>
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<td></td>
</tr>
<tr>
<td>Date Prepared:</td>
<td>06/08/2009 1049</td>
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<td></td>
</tr>
</tbody>
</table>

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 0.3 g
Final Weight/Volume: 50 mL

Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
---------|--------------|--------|--------|-------|------|
Mercury  | 0.167        | 0.166  | 100    | 80 - 120 |      |

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-80203

MS Lab Sample ID: 660-29744-3

<table>
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<th>660-80234</th>
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<td>660-80203</td>
</tr>
<tr>
<td>Dilution:</td>
<td>1.0</td>
<td>Units:</td>
<td>mg/Kg</td>
</tr>
<tr>
<td>Date Analyzed:</td>
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<td></td>
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<tr>
<td>Date Prepared:</td>
<td>06/08/2009 1049</td>
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<td></td>
</tr>
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Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 0.3 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-29744-3

<table>
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<td>Prep Batch:</td>
<td>660-80203</td>
</tr>
<tr>
<td>Dilution:</td>
<td>1.0</td>
<td>Units:</td>
<td>mg/Kg</td>
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</tr>
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</table>

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 0.3 g
Final Weight/Volume: 50 mL

Analyte | % Rec. | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
---------|--------|----|-----|-------|-----|-----------|---------|----------|
Mercury  | 131    | 121| 80 - 120 | 4 | 20 | N | N |

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Tampa
<table>
<thead>
<tr>
<th>SAMPLE</th>
<th>SAMPLE IDENTIFICATION</th>
<th>COMPOSITE (G)</th>
<th>SOLID OR SEMISOLID</th>
<th>NONAQUEOUS LIQUID (OR SOLVENT)</th>
<th>AIR</th>
<th>NUMBER OF CONTAINERS SUBMITTED</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>6-2-09</td>
<td>1330 PIN15-TRP2</td>
<td>G</td>
<td>V</td>
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<td></td>
<td>2</td>
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<tr>
<td></td>
<td>1340 PIN15-EQB2</td>
<td>G</td>
<td>V</td>
<td></td>
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<td>3</td>
<td>1</td>
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<tr>
<td></td>
<td>1358 PIN15-CP-L1</td>
<td>G</td>
<td>V</td>
<td></td>
<td></td>
<td>2</td>
<td>1-1</td>
</tr>
<tr>
<td></td>
<td>1405 PIN15-CP-L2</td>
<td>G</td>
<td>V</td>
<td></td>
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<td>2</td>
<td>1-1</td>
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<tr>
<td></td>
<td>1414 PIN15-CP-L3</td>
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<td>V</td>
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<td>2</td>
<td>1-1</td>
</tr>
<tr>
<td></td>
<td>1421 PIN15-CP-L4</td>
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<td>V</td>
<td></td>
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<td>2</td>
<td>1-1</td>
</tr>
<tr>
<td></td>
<td>1429 PIN15-CP-L5</td>
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<td>V</td>
<td></td>
<td></td>
<td>2</td>
<td>1-1</td>
</tr>
<tr>
<td></td>
<td>1437 PIN15-CP-L6</td>
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<td>V</td>
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<tr>
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<td>1502 PIN15-CP-L7</td>
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<td>1511 PIN15-CP-L8</td>
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<td>1-1</td>
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<tr>
<td></td>
<td>1519 PIN15-CP-L9</td>
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<td>V</td>
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<td>2</td>
<td>1-1</td>
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<tr>
<td></td>
<td>1526 PIN15-CP-L10</td>
<td>G</td>
<td>V</td>
<td></td>
<td></td>
<td>2</td>
<td>1-1</td>
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</table>

<table>
<thead>
<tr>
<th>RELINQUISHED BY:</th>
<th>DATE</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>S.M. Stoller</td>
<td>5-27-09</td>
<td>10:40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RECEIVED BY:</th>
<th>DATE</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amanda Janum</td>
<td>5-28-09</td>
<td>09:00</td>
</tr>
</tbody>
</table>
## Analysis Request and Chain of Custody Record

**TestAmerica Tampa**
6712 Benjamin Road, Suite 100
Tampa, FL 33634

**Alternate Laboratory Name/Location**

<table>
<thead>
<tr>
<th>Sample Date</th>
<th>Time</th>
<th>Sample Identification</th>
<th>Type</th>
<th>Number of Containers Submitted</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-2-09</td>
<td>1534</td>
<td>PIN15-CF-L11</td>
<td>G</td>
<td>2</td>
<td>1 1 1 4*2</td>
</tr>
<tr>
<td></td>
<td>1547</td>
<td>PIN15-CF-L12</td>
<td>G</td>
<td>2</td>
<td>1 1 1 4*2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PIN15-CF-DUP2</td>
<td>G</td>
<td>2</td>
<td>1 1 1 4*2</td>
</tr>
</tbody>
</table>

**Relinquished By:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Received By: (Signature)</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-28-09</td>
<td>0900</td>
<td>Amanda jamison</td>
<td>10/29/09</td>
<td>17:23</td>
</tr>
</tbody>
</table>

**Laboratory Use Only**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Custody Intact</th>
<th>Custody Seal No.</th>
<th>Tampa Log No.</th>
<th>Cooler Temp. Upon Receipt</th>
<th>Laboratory Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-2-09</td>
<td>17:23</td>
<td>YES</td>
<td>0</td>
<td>660-29744</td>
<td>2.1C 2.8C</td>
<td>cw07</td>
</tr>
</tbody>
</table>

**Standard Report Delivery**

- Date Due: 7-day TAT

**Expiration Report Delivery**

- Date Due: 7-day TAT

**Company Contracting This Work:**

7887 Payne Dairy Rd. Suite 260, Largo, FL 33777
PRESERVATION CONFIRMATION FORM

JOB NUMBER: 1660-29744
Logged in TALS By: Amanda Harrison

Cooler Received on (date) 6-2-09 And Opened By (full name): Charles Wolfe

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: DHL

2. Tracking #

3. Temperature of rep. sample or temp blank when opened: 2.1°C 2.3°C CW-07 Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers:

   All containers pH < 2? ________  If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers:

   All containers pH < 2? ________  If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers:

   All containers pH < 2? Yes  If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers:

   All containers pH >12? ________  If not please comment below:

8. Number of Unpreserved containers:

   All containers pH between 6 and 8? ________  If not please comment below:

9. Was chlorine present in any of the unpreserved containers? ____________________________

   If yes, which samples? ____________________________
## Login Sample Receipt Check List

Client: S.M. Stoller Corporation  
Job Number: 660-29744-1

**Login Number: 29744**  
**Creator:** Harrison, Amanda  
**List Number:** 1

<table>
<thead>
<tr>
<th>Question</th>
<th>T / F / NA</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity either was not measured or, if measured, is at or below</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>background</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seal, if present, is intact.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>The cooler or samples do not appear to have been compromised or</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>tampered with.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Samples were received on ice.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is acceptable.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is recorded.</td>
<td>True</td>
<td>2.1 and 2.3 degrees c CU-07</td>
</tr>
<tr>
<td>COC is present.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the sample IDs on the containers and</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>the COC.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Samples are received within Holding Time.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample containers have legible labels.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/times are provided.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are used.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample bottles are completely filled.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There is sufficient vol. for all requested analyses, incl. any requested</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>MS/MSDs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not have headspace or bubble is &lt;6mm (1/4&quot;) in</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>diameter.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If necessary, staff have been informed of any short hold time or quick TAT needs</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Multiphasic samples are not present.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples do not require splitting or compositing.</td>
<td>True</td>
<td></td>
</tr>
</tbody>
</table>
ANALYTICAL REPORT

Job Number: 660-29745-1
Job Description: Star Center 4.5 Acre

For:
S.M. Stoller Corporation
2597 B 3/4 Road
Grand Junction, CO 81503
Attention: Mr. Charles Tabor

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.
Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The Method Blank for batch 80043 contained an estimated value for Methyl chloride between the MDL and PQL. None of the samples associated with this Method Blank contained the target compound.

Method 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for sample PIN20-CP-L7. The Internal Standard on the low-level encores was outside QC limits and therefore, the methanol extract was reported causing elevated reporting limits.

Method 8260B: The surrogate recovery for Dibromofluoromethane on sample PIN20-CP-L12 was outside QC limits due to confirmed matrix interference. The sample is flagged with *.

Method 8260B: The Batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 80032 were outside control limits for Chlorobenzene. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260B: The matrix spike (MS) recovery for batch 80043 associated with sample PIN20-CP-L9 was outside control limits for Trichloroethylene. The associated laboratory control sample (LCS) met acceptance criteria. The sample is flagged with *.

Method 8260B: The Batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 80048 were outside control limits for Trichlorofluoromethane. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.
## EXECUTIVE SUMMARY - Detections

Client: S.M. Stoller Corporation
Job Number: 660-29745-1

<table>
<thead>
<tr>
<th>Lab Sample ID</th>
<th>Client Sample ID</th>
<th>Result / Qualifier</th>
<th>Reporting Limit</th>
<th>Units</th>
<th>Method</th>
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</thead>
<tbody>
<tr>
<td>660-29745-1</td>
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<td>0.57</td>
<td>mg/Kg</td>
<td>6010B</td>
</tr>
<tr>
<td>Arsenic</td>
<td></td>
<td>5.6</td>
<td>1.1</td>
<td>mg/Kg</td>
<td>6010B</td>
</tr>
<tr>
<td>Barium</td>
<td></td>
<td>8.4</td>
<td>1.1</td>
<td>mg/Kg</td>
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<td>Chromium</td>
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<td>3.0</td>
<td>0.57</td>
<td>mg/Kg</td>
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<td>Lead</td>
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<td>mg/Kg</td>
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<td>Selenium</td>
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<td>PIN20-CP-L2</td>
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<td>9.6</td>
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<td>ug/Kg</td>
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TestAmerica Tampa
## EXECUTIVE SUMMARY - Detections

Client: S.M. Stoller Corporation  
Job Number: 660-29745-1

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| 660-29745-15  | PIN20-CP-DUP1    | Methylene Chloride | 7.0                | 4.8             | ug/Kg  | 8260B    |
|               |                  | Trichloroethylene | 2.0                | 4.8             | ug/Kg  | 8260B    |
|               |                  | Arsenic          | 0.71               | 0.58            | mg/Kg  | 6010B    |
|               |                  | Barium           | 6.6                | 1.2             | mg/Kg  | 6010B    |
|               |                  | Chromium         | 4.4                | 1.2             | mg/Kg  | 6010B    |
|               |                  | Lead             | 2.7                | 0.58            | mg/Kg  | 6010B    |
|               |                  | Selenium         | 0.59               | 1.2             | mg/Kg  | 6010B    |
|               |                  | Mercury          | 0.039              | 0.078           | mg/Kg  | 7471A    |
## METHOD SUMMARY

Client: S.M. Stoller Corporation  
Job Number: 660-29745-1

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TAL TAM = TestAmerica Tampa

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**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

**Client Sample ID:** PIN20-CP-L1  
**Lab Sample ID:** 660-29745-1  
**Date Sampled:** 06/02/2009  
**Date Received:** 06/02/2009

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- **PIN20-CP-L1**
- **Lab Sample ID:** 660-29745-1
- **Date Sampled:** 06/02/2009  
- **Date Received:** 06/02/2009

### 8260B Volatile Organic Compounds (GC/MS)

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<th>Acceptance Limits</th>
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<tr>
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<td>Toluene-d8 (Surr)</td>
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<td>67 - 138</td>
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Analytical Data

Client: S.M. Stoller Corporation
Job Number: 660-29745-1

Client Sample ID: PIN20-TRP1
Lab Sample ID: 660-29745-2
Client Matrix: Water

Date Sampled: 06/02/2009
Date Received: 06/02/2009

8260B Volatile Organic Compounds (GC/MS)
Method: 8260B
Preparation: 5030B
Analysis Batch: 660-80048
Lab File ID: 1HF0417.D

Dilution: 1.0
Initial Weight/Volume: 5 mL

Date Analyzed: 06/04/2009
Date Prepared: 06/04/2009

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<tr>
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<th>Result (ug/L)</th>
<th>Qualifier</th>
<th>MDL</th>
<th>PQL</th>
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<tr>
<td>Bromoform</td>
<td>0.58</td>
<td>U</td>
<td>0.58</td>
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<tr>
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<td>Ethylbenzene</td>
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Surrogate | %Rec | Acceptance Limits |
-----------|------|-------------------|
4-Bromofluorobenzene | 104 | 70 - 130 |
Dibromofluoromethane  | 96  | 70 - 130 |
Toluene-d8 (Surr)     | 91  | 70 - 130 |
## Analytical Data

Client: S.M. Stoller Corporation

Job Number: 660-29745-1

**Client Sample ID:** PIN20-EQB1

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**Client Matrix:** Water

**Date Prepared:** 06/04/2009

**Date Analyzed:** 06/04/2009

**Preparation:** 5030B

**Dilution:** 1.0

**Method:** 8260B

**Analysis Batch:** 660-80048

**Instrument ID:** BVMH GC/MS

**Lab File ID:** 1HF0418.D

**Initial Weight/Volume:** 5 mL

**Final Weight/Volume:** 5 mL

### 8260B Volatile Organic Compounds (GC/MS)

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<th>Result (ug/L)</th>
<th>Qualifier</th>
<th>MDL</th>
<th>PQL</th>
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### Surrogate

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<th>Acceptance Limits</th>
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<td>Dibromofluoromethane</td>
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<td>Toluene-d8 (Surr)</td>
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<td>70 - 130</td>
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### Analytical Data

Client: S.M. Stoller Corporation

**Client Sample ID:** PIN20-CP-L2

Lab Sample ID: 660-29745-4

Client Matrix: Solid

% Moisture: 13.2

Date Sampled: 06/02/2009

Date Received: 06/02/2009

**PIN20-CP-L2**

**8260B Volatile Organic Compounds (GC/MS)**

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<th>Result (ug/Kg)</th>
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TestAmerica Tampa

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06/09/2009
## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

**Client Sample ID:** PIN20-CP-L3  
**Lab Sample ID:** 660-29745-5  
**Date Sampled:** 06/02/2009  
**Date Received:** 06/02/2009

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**TestAmerica Tampa**  
**Page 13 of 61**  
**06/09/2009**
### Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

**Client Sample ID:** PIN20-CP-L4  
**Lab Sample ID:** 660-29745-6  
**Client Matrix:** Solid  
**% Moisture:** 15.0

**Date Sampled:** 06/02/2009  
**Date Received:** 06/02/2009

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**8260B Volatile Organic Compounds (GC/MS)**

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Client: S.M. Stoller Corporation

**Client Sample ID:** PIN20-CP-L5

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### Client Sample ID: PIN20-CP-L5

| PIN20-CP-L5          | Date Prepared: 06/03/2009 1416 |

#### 8260B Volatile Organic Compounds (GC/MS)

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<tr>
<th>Analyte</th>
<th>DryWt Corrected: Y</th>
<th>Result (ug/Kg)</th>
<th>Qualifier</th>
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<th>PQL</th>
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## Analytical Data

### Client: S.M. Stoller Corporation

**Job Number:** 660-29745-1

### Client Sample ID: PIN20-CP-L6

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### 8260B Volatile Organic Compounds (GC/MS)

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### Surrogate

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<th>%Rec</th>
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<td>Dibromofluoromethane</td>
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### Analytical Data

Client: S.M. Stoller Corporation  
Job Number: 660-29745-1

**Client Sample ID:** PIN20-CP-L7  
**Lab Sample ID:** 660-29745-9  
**Client Matrix:** Solid  
**% Moisture:** 7.9

**Date Sampled:** 06/02/2009  
**Date Received:** 06/02/2009

**Method:** 8260B  
**Preparation:** 5035-Medium  
**Analysis Batch:** 660-80122  
**Prep Batch:** 660-80004  
**Instrument ID:** BVME GC/MS  
**Lab File ID:** 1EF0515.D

**Dilution:** 50  
**Initial Weight/Volume:** 3.59 g  
**Date Analyzed:** 06/05/2009  
**Final Weight/Volume:** 5 mL  
**Date Prepared:** 06/03/2009

#### 8260B Volatile Organic Compounds (GC/MS)

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Client: S.M. Stoller Corporation

Client Sample ID: PIN20-CP-L8

Lab Sample ID: 660-29745-10

Client Matrix: Solid

% Moisture: 12.4

Date Sampled: 06/02/2009

Date Received: 06/02/2009

Client Sample ID: PIN20-CP-L8

Lab Sample ID: 660-29745-10

Client Matrix: Solid

% Moisture: 12.4

Date Sampled: 06/02/2009

Date Received: 06/02/2009

**8260B Volatile Organic Compounds (GC/MS)**

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**Surrogate**

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### Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

**Client Sample ID:** PIN20-CP-L9  
**Lab Sample ID:** 660-29745-11  
**Client Matrix:** Solid  
**% Moisture:** 12.9  
**Date Sampled:** 06/02/2009  
**Date Received:** 06/02/2009

#### 8260B Volatile Organic Compounds (GC/MS)

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**Surrogate**  
- **%Rec:**  
  - Dibromofluoromethane: 91  
  - 4-Bromofluorobenzene: 91  
  - Toluene-d8 (Surr): 97  

**Acceptance Limits**  
- 63 - 139  
- 69 - 130  
- 67 - 138  

---

TestAmerica Tampa  
Page 19 of 61  
06/09/2009
## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

### Client Sample ID: PIN20-CP-L10

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### 8260B Volatile Organic Compounds (GC/MS)

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# Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

## Client Sample ID: PIN20-CP-L12

- **Lab Sample ID:** 660-29745-14  
- **Date Sampled:** 06/02/2009  
- **Date Received:** 06/02/2009

## Client Matrix:
- **% Moisture:** 13.3

## Lab Sample ID:
- **Lab Sample ID:** 660-29745-14

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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

### Client Sample ID: PIN20-CP-DUP1

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### Surrogate

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<td>4-Bromofluorobenzene</td>
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**Analytical Data**

Client:  S.M. Stoller Corporation  
Job Number:  660-29745-1

**Client Sample ID:** PIN20-CP-L1

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### 6010B Metals (ICP)

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<th>Analysis Batch:</th>
<th>660-80076</th>
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<tbody>
<tr>
<td>Preparation:</td>
<td>3050B</td>
<td>Prep Batch:</td>
<td>660-80034</td>
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<th>Result (mg/Kg)</th>
<th>Qualifier</th>
<th>MDL</th>
<th>PQL</th>
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<td>Arsenic</td>
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<td>0.57</td>
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<td>Barium</td>
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<td>0.18</td>
<td>1.1</td>
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<td>U</td>
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<td>0.57</td>
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<td>1.1</td>
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### 7471A Mercury (CVAA)

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<td>Prep Batch:</td>
<td>660-80203</td>
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Analytical Data

Client: S.M. Stoller Corporation

Client Sample ID: PIN20-CP-L2

Lab Sample ID: 660-29745-4
Client Matrix: Solid
% Moisture: 13.2

Date Sampled: 06/02/2009
Date Received: 06/02/2009

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**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 06/04/2009
Date Prepared: 06/04/2009

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<td>Barium</td>
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<td>0.18</td>
<td>1.2</td>
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<tr>
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**7471A Mercury (CVAA)**

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 06/08/2009
Date Prepared: 06/08/2009

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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

**Client Sample ID:** PIN20-CP-L3  
**Lab Sample ID:** 660-29745-5  
**Client Matrix:** Solid  
**% Moisture:** 14.3

### 6010B Metals (ICP)

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### 7471A Mercury (CVAA)

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Client: S.M. Stoller Corporation

Client Sample ID: PIN20-CP-L4

Lab Sample ID: 660-29745-6
Client Matrix: Solid
% Moisture: 15.0

Date Sampled: 06/02/2009 1038
Date Received: 06/02/2009 1723

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### 6010B Metals (ICP)

Method: 6010B
Analysis Batch: 660-80076
Instrument ID: TJA ICP
Preparation: 3050B
Prep Batch: 660-80034
Lab File ID: 9F04B
Dilution: 1.0
Initial Weight/Volume: 1.0 g
Date Analyzed: 06/04/2009 1234
Final Weight/Volume: 50 mL
Date Prepared: 06/04/2009 0646

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### 7471A Mercury (CVAA)

Method: 7471A
Analysis Batch: 660-80234
Instrument ID: Hg Analyzer
Preparation: 7471A
Prep Batch: 660-80203
Lab File ID: N/A
Dilution: 1.0
Initial Weight/Volume: 0.3 g
Date Analyzed: 06/08/2009 1341
Final Weight/Volume: 50 mL
Date Prepared: 06/08/2009 1049

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Client: S.M. Stoller Corporation

Client Sample ID: PIN20-CP-L5

Lab Sample ID: 660-29745-7
Client Matrix: Solid
% Moisture: 7.3

Date Sampled: 06/02/2009 1045
Date Received: 06/02/2009 1723

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Analytical Data

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0

Date Analyzed: 06/04/2009 1238
Date Prepared: 06/04/2009 0646

Lab Sample ID: 660-29745-7
Client Matrix: Solid
% Moisture: 7.3

Instrument ID: TJA ICP
Lab File ID: 9F04B
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

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<th>Result (mg/Kg)</th>
<th>Qualifier</th>
<th>MDL</th>
<th>PQL</th>
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<td>0.54</td>
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Method: 6010B
Preparation: 3050B
Dilution: 2.0

Date Analyzed: 06/04/2009 1314
Date Prepared: 06/04/2009 0646

Lab Sample ID: 660-29745-7
Client Matrix: Solid
% Moisture: 7.3

Instrument ID: TJA ICP
Lab File ID: 9F04B
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0

Date Analyzed: 06/08/2009 1343
Date Prepared: 06/08/2009 1049

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Method: 7471A
Preparation: 7471A
Dilution: 1.0

Date Analyzed: 06/08/2009 1343
Date Prepared: 06/08/2009 1049

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</table>

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06/09/2009
**Analytical Data**

Client: S.M. Stoller Corporation

Job Number: 660-29745-1

**Client Sample ID: PIN20-CP-L6**

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<td>Date Received:</td>
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<td>% Moisture:</td>
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### 6010B Metals (ICP)

| Method: 6010B | Analysis Batch: 660-80076 | Instrument ID: | TJA ICP |
| Preparation: 3050B | Prep Batch: 660-80034 | Lab File ID: | 9F04B |
| Dilution: 1.0 | Initial Weight/Volume: 1.0 g | Final Weight/Volume: 50 mL |
| Date Analyzed: 06/04/2009 | 1243 |
| Date Prepared: 06/04/2009 | 0646 |

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<tr>
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### 7471A Mercury (CVAA)

| Method: 7471A | Analysis Batch: 660-80234 | Instrument ID: | Hg Analyzer |
| Preparation: 7471A | Prep Batch: 660-80203 | Lab File ID: | N/A |
| Dilution: 1.0 | Initial Weight/Volume: 0.3 g | Final Weight/Volume: 50 mL |
| Date Analyzed: 06/08/2009 | 1345 |
| Date Prepared: 06/08/2009 | 1049 |

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### Analytical Data

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06/09/2009
Client Sample ID: PIN20-CP-L7

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7471A Mercury (CVAA)

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Analytical Data

Client: S.M. Stoller Corporation
Job Number: 660-29745-1

Client Sample ID: PIN20-CP-L8

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**6010B Metals (ICP)**

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**7471A Mercury (CVAA)**

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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

**Client Sample ID:** PIN20-CP-L9

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**Client Matrix:** Solid  
**% Moisture:** 12.9

### 6010B Metals (ICP)

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<td>0.57</td>
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**Method:** 6010B  
**Preparation:** 3050B  
**Analysis Batch:** 660-80076  
**Lab File ID:** 9F04B  
**Initial Weight/Volume:** 1.0 g  
**Final Weight/Volume:** 50 mL

### 7471A Mercury (CVAA)

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<tr>
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**Method:** 7471A  
**Preparation:** 7471A  
**Analysis Batch:** 660-80234  
**Lab File ID:** N/A  
**Initial Weight/Volume:** 0.3 g  
**Final Weight/Volume:** 50 mL

**Instrument ID:** TJA ICP  
**Date Analyzed:** 06/04/2009 1424  
**Date Prepared:** 06/04/2009 0725

---

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06/09/2009
## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

### Client Sample ID: PIN20-CP-L10

- **Lab Sample ID:** 660-29745-12  
- **Client Matrix:** Solid  
- **% Moisture:** 16.8  
- **Date Sampled:** 06/02/2009  
- **Date Received:** 06/02/2009

#### 6010B Metals (ICP)

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#### 7471A Mercury (CVAA)

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**Method:** 6010B  
**Preparation:** 3050B  
**Dilution:** 1.0  
**Date Analyzed:** 06/04/2009 1429  
**Date Prepared:** 06/04/2009 0725

---

**Method:** 7471A  
**Preparation:** 7471A  
**Dilution:** 1.0  
**Date Analyzed:** 06/08/2009 1414  
**Date Prepared:** 06/08/2009 1147

---

**Instrument ID:** TJA ICP  
**Lab File ID:** 9F04B  
**Initial Weight/Volume:** 1.0 g  
**Final Weight/Volume:** 50 mL
Client: S.M. Stoller Corporation  
Job Number: 660-29745-1

Client Sample ID: PIN20-CP-L11
Lab Sample ID: 660-29745-13  
Date Sampled: 06/02/2009  1132
Client Matrix: Solid  
% Moisture: 15.1  
Date Received: 06/02/2009  1723

### 6010B Metals (ICP)

**Method:** 6010B  
**Analysis Batch:** 660-80076  
**Instrument ID:** TJA ICP
**Preparation:** 3050B  
**Lab File ID:** 9F04B  
**Dilution:** 1.0  
**Initial Weight/Volume:** 1.0 g
**Date Analyzed:** 06/04/2009  1402  
**Final Weight/Volume:** 50 mL
**Date Prepared:** 06/04/2009  0725

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### 7471A Mercury (CVAA)

**Method:** 7471A  
**Analysis Batch:** 660-80234  
**Instrument ID:** Hg Analyzer
**Preparation:** 7471A  
**Lab File ID:** N/A  
**Dilution:** 1.0  
**Initial Weight/Volume:** 0.3 g
**Date Analyzed:** 06/08/2009  1417  
**Final Weight/Volume:** 50 mL
**Date Prepared:** 06/08/2009  1147

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<tr>
<th>Analyte</th>
<th>DryWt Corrected: Y</th>
<th>Result (mg/Kg)</th>
<th>Qualifier</th>
<th>MDL</th>
<th>PQL</th>
</tr>
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<tbody>
<tr>
<td>Mercury</td>
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<td>0.030</td>
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<td>0.079</td>
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</table>
**Analytical Data**

Client: S.M. Stoller Corporation  
Job Number: 660-29745-1

**Client Sample ID:** PIN20-CP-L12

<table>
<thead>
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<th>06/02/2009 1143</th>
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<td>Solid</td>
<td>% Moisture:</td>
<td>13.3</td>
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<td></td>
<td></td>
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<td>06/02/2009 1723</td>
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### 6010B Metals (ICP)

<table>
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<th>Analysis Batch:</th>
<th>660-80076</th>
<th>Instrument ID:</th>
<th>TJA ICP</th>
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<tr>
<td>Preparation:</td>
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<tr>
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<th>Result (mg/Kg)</th>
<th>Qualifier</th>
<th>MDL</th>
<th>PQL</th>
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</thead>
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<td>1.2</td>
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<tr>
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<td>B</td>
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<td>0.58</td>
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<tr>
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<td></td>
<td>0.18</td>
<td>1.2</td>
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<tr>
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<td>U</td>
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<tr>
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### 7471A Mercury (CVAA)

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<th>660-80234</th>
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<th>Hg Analyzer</th>
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<td>Prep Batch:</td>
<td>660-80206</td>
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<tr>
<td>Date Analyzed:</td>
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<tr>
<td>Date Prepared:</td>
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<th>Result (mg/Kg)</th>
<th>Qualifier</th>
<th>MDL</th>
<th>PQL</th>
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</thead>
<tbody>
<tr>
<td>Mercury</td>
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## Analytical Data

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

### Client Sample ID: PIN20-CP-DUP1

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#### 6010B Metals (ICP)

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**Analyte** | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | PQL |
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>0.22 U</td>
<td>0.22</td>
<td>0.22</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>Arsenic</td>
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<td>0.58</td>
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<td></td>
</tr>
<tr>
<td>Barium</td>
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</tr>
<tr>
<td>Cadmium</td>
<td>0.10 U</td>
<td>0.10</td>
<td>0.58</td>
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<td>Lead</td>
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#### 7471A Mercury (CVAA)

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<th>Hg Analyzer</th>
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<tbody>
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**Analyte** | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | PQL |
<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
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## DATA REPORTING QUALIFIERS

Client:  S.M. Stoller Corporation  
Job Number:  660-29745-1

<table>
<thead>
<tr>
<th>Lab Section</th>
<th>Qualifier</th>
<th>Description</th>
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<tr>
<td>GC/MS VOA</td>
<td>U</td>
<td>Analyzed for but not detected.</td>
</tr>
<tr>
<td></td>
<td>*</td>
<td>Duplicate RPD exceeds control limits</td>
</tr>
<tr>
<td></td>
<td>J</td>
<td>Indicates an estimated value.</td>
</tr>
<tr>
<td></td>
<td>*</td>
<td>MS or MSD exceeds the control limits</td>
</tr>
<tr>
<td></td>
<td>*</td>
<td>Surrogate exceeds the control limit</td>
</tr>
<tr>
<td>Metals</td>
<td>U</td>
<td>Indicates analyzed for but not detected.</td>
</tr>
<tr>
<td></td>
<td>N</td>
<td>Spiked sample recovery is not within control limits.</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Value less than contract required detection limit but greater than or equal to the Method Detection Limit</td>
</tr>
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### Quality Control Results

**Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-79977**

<table>
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<th>% Rec.</th>
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<th>RPD</th>
<th>RPD Limit</th>
<th>MS Qual</th>
<th>MSD Qual</th>
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<tr>
<td>Benzene</td>
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<td>68</td>
<td>77</td>
<td>49 - 142</td>
<td>23</td>
<td>42</td>
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<tr>
<td>Chlorobenzene</td>
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<td>60</td>
<td>65</td>
<td>66 - 135</td>
<td>19</td>
<td>34</td>
<td>*</td>
<td>*</td>
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<tr>
<td>1,1-Dichloroethylene</td>
<td></td>
<td>58</td>
<td>65</td>
<td>40 - 164</td>
<td>22</td>
<td>46</td>
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<tr>
<td>Toluene</td>
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<td>74</td>
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<tr>
<td>Trichloroethylene</td>
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<td>63</td>
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<td>51 - 146</td>
<td>22</td>
<td>34</td>
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<td></td>
</tr>
</tbody>
</table>

Calculations are performed before rounding to avoid round-off errors in calculated results.
**Quality Control Results**

**Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-80004**

- **MS Lab Sample ID:** 660-29745-9
- **Client Matrix:** Solid
- **Date Analyzed:** 06/05/2009 1324
- **Date Prepared:** 06/03/2009 1430

- **Analysis Batch:** 660-80122
- **Prep Batch:** 660-80004

- **Instrument ID:** BVME GC/MS
- **Lab File ID:** 1EF0516.D
- **Initial Weight/Volume:** 5.38 g
- **Final Weight/Volume:** 5 mL

<table>
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<th>RPD</th>
<th>RPD Limit</th>
<th>MS Qual</th>
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<td>66 - 135</td>
<td>8</td>
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<td>1,1-Dichloroethylene</td>
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<td>111</td>
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<td>40 - 164</td>
<td>9</td>
<td>46</td>
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<td>Toluene</td>
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<td>112</td>
<td></td>
<td>38 - 158</td>
<td>9</td>
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<td>51 - 146</td>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
**Quality Control Results**

Job Number: 660-29745-1

**Matrix Spike - Batch: 660-80006**

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<th>Spike Amount</th>
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<th>Qual</th>
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<td>60.8</td>
<td>63.0</td>
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<td>38 - 158</td>
</tr>
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<td>95.7</td>
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</table>

Method: 8260B
Preparation: 5035

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Tampa
Page 40 of 61
Quality Control Results

Method Blank - Batch: 660-80032

<table>
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<td>5.0</td>
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<tr>
<td>1,2-Dichloroethane</td>
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<td>5.0</td>
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<tr>
<td>o-Xylene</td>
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<td>2.5</td>
<td>5.0</td>
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<td>trans-1,2-Dichloroethylene</td>
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<td>2.5</td>
<td>5.0</td>
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</tr>
<tr>
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<td>U</td>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
## Lab Control Sample - Batch: 660-80032

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<tbody>
<tr>
<td>Benzene</td>
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<td>46.9</td>
<td>94</td>
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<tr>
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<tr>
<td>1,1-Dichloroethylene</td>
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<td>100</td>
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<td>Trichloroethylene</td>
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<td>46.9</td>
<td>94</td>
<td>51 - 146</td>
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Method: 8260B
Preparation: N/A

Instrument ID: BVMF GC/MS
Lab File ID: 2FF0313.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

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## Quality Control Results

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

### Method Blank - Batch: 660-80043

<table>
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<tr>
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<td>Carbon tetrachloride</td>
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<tr>
<td>o-Xylene</td>
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<td>5.0</td>
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<td>trans-1,2-Dichloroethylene</td>
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<td>U</td>
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<td>5.0</td>
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<td>Vinyl chloride</td>
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### Surrogate

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Calculations are performed before rounding to avoid round-off errors in calculated results.
# Quality Control Results

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

## Lab Control Sample - Batch: 660-80043

<table>
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<th>Qual</th>
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<tbody>
<tr>
<td>Benzene</td>
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<td>49 - 142</td>
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<td>Chlorobenzene</td>
<td>20.0</td>
<td>19.9</td>
<td>100</td>
<td>66 - 135</td>
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</tr>
<tr>
<td>1,1-Dichloroethylene</td>
<td>20.0</td>
<td>20.7</td>
<td>103</td>
<td>40 - 164</td>
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<tr>
<td>Toluene</td>
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<td>38 - 158</td>
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<td>Trichloroethylene</td>
<td>20.0</td>
<td>21.3</td>
<td>106</td>
<td>51 - 146</td>
<td></td>
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</table>

**Method:** 8260B  
**Preparation:** N/A

**Lab Sample ID:** LCS 660-80043/1  
**Client Matrix:** Solid  
**Dilution:** 1.0  
**Date Analyzed:** 06/04/2009 0940  
**Date Prepared:** N/A

**Analysis Batch:** 660-80043  
**Prep Batch:** N/A

**Units:** ug/Kg

**Instrument ID:** BVME GC/MS  
**Lab File ID:** 1EF0405.D  
**Initial Weight/Volume:** 5 mL  
**Final Weight/Volume:** 5 mL

Calculations are performed before rounding to avoid round-off errors in calculated results.
### Quality Control Results

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

#### Method Blank - Batch: 660-80048

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<td>Methyl chloride</td>
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<td>4.0</td>
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<tr>
<td>Methylene Chloride</td>
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<td>4.0</td>
<td>5.0</td>
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<td>Methyl tert-butyl ether</td>
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<td>o-Xylene</td>
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#### Calculations

Calculations are performed before rounding to avoid round-off errors in calculated results.

**TestAmerica Tampa**  
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06/09/2009
### Quality Control Results

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

#### Lab Control Sample - Batch: 660-80048

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<th>Qual</th>
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<td>70 - 130</td>
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<tr>
<td>Bromoform</td>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
Quality Control Results

Client: S.M. Stoller Corporation

Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-80048

Method: 8260B
Preparation: 5030B

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Calculations are performed before rounding to avoid round-off errors in calculated results.
## Quality Control Results

**Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-80048**

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Calculations are performed before rounding to avoid round-off errors in calculated results.
Quality Control Results

Duplicate - Batch: 660-80090

Lab Sample ID: 660-29798-C-3-A DU
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/04/2009 1401
Date Prepared: 06/04/2009 1100

Analysis Batch: 660-80043
Prep Batch: 660-80090
Units: ug/Kg

Method: 8260B
Preparation: 5035
Instrument ID: BVME GC/MS
Lab File ID: 1EF0415.D
Initial Weight/Volume: 5.68 g
Final Weight/Volume: 5 mL

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Surrogate % Rec  Acceptance Limits

Dibromofluoromethane  93  63 - 139

Calculations are performed before rounding to avoid round-off errors in calculated results.
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<td>69 - 130</td>
</tr>
<tr>
<td>Toluene-d8 (Surr)</td>
<td>98</td>
<td>67 - 138</td>
</tr>
</tbody>
</table>

Calculations are performed before rounding to avoid round-off errors in calculated results.
# Quality Control Results

**Job Number:** 660-29745-1  
**Client:** S.M. Stoller Corporation

## Method Blank - Batch: 660-80122

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qual</th>
<th>MDL</th>
<th>PQL</th>
</tr>
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<tbody>
<tr>
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<tr>
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</tr>
<tr>
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<td>U</td>
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<tr>
<td>Carbon tetrachloride</td>
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<td>2.5</td>
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<tr>
<td>Chlorobenzene</td>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
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<tr>
<td>Chloroethane</td>
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<td>U</td>
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</tr>
<tr>
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<td>U</td>
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<tr>
<td>cis-1,2-Dichloroethylene</td>
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<td>2.5</td>
<td>5.0</td>
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<tr>
<td>1,2-Dichloroethane</td>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
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<tr>
<td>1,2-Dichloropropane</td>
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<tr>
<td>Methyl bromide</td>
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<td>Methyl tert-butyl ether</td>
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<td>m,p-Xylene</td>
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<td>U</td>
<td>3.0</td>
<td>10</td>
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<tr>
<td>o-Dichlorobenzene</td>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
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<tr>
<td>o-Xylene</td>
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<td>U</td>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>trans-1,2-Dichloroethylene</td>
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<td>U</td>
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<td>5.0</td>
</tr>
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<td>trans-1,3-Dichloropropene</td>
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<td>U</td>
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<td>5.0</td>
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<td>U</td>
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<td>5.0</td>
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<tr>
<td>1,1,2-Trichloroethane</td>
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<td>U</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>Trichloroethylene</td>
<td>2.1</td>
<td>U</td>
<td>2.1</td>
<td>5.0</td>
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<tr>
<td>Trichlorofluoromethane</td>
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<td>Vinyl chloride</td>
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## Surrogate

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<tr>
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<tbody>
<tr>
<td>Dibromofluoromethane</td>
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<tr>
<td>4-Bromofluorobenzene</td>
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<td></td>
</tr>
<tr>
<td>Toluene-d8 (Surr)</td>
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<td></td>
</tr>
</tbody>
</table>

Calculations are performed before rounding to avoid round-off errors in calculated results.

---

**Instrument ID:** BVME GC/MS  
**Lab File ID:** 1EF0512.D  
**Initial Weight/Volume:** 1.0 mL  
**Final Weight/Volume:** 1.0 mL

---

*TestAmerica Tampa*  
*Page 51 of 61*  
*06/09/2009*
**Lab Control Sample - Batch: 660-80122**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Spike Amount</th>
<th>Result</th>
<th>% Rec.</th>
<th>Limit</th>
<th>Qual</th>
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<tbody>
<tr>
<td>Benzene</td>
<td>20.0</td>
<td>23.2</td>
<td>116</td>
<td>49 - 142</td>
<td></td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td>20.0</td>
<td>22.5</td>
<td>113</td>
<td>66 - 135</td>
<td></td>
</tr>
<tr>
<td>1,1-Dichloroethylene</td>
<td>20.0</td>
<td>22.7</td>
<td>114</td>
<td>40 - 164</td>
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<tr>
<td>Toluene</td>
<td>20.0</td>
<td>23.0</td>
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<td>38 - 158</td>
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</tr>
<tr>
<td>Trichloroethylene</td>
<td>20.0</td>
<td>22.4</td>
<td>112</td>
<td>51 - 146</td>
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</tr>
</tbody>
</table>

Calculations are performed before rounding to avoid round-off errors in calculated results.
Quality Control Results

Method Blank - Batch: 660-80034

Lab Sample ID: MB 660-80034/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/04/2009 1022
Date Prepared: 06/04/2009 0646

Analysis Batch: 660-80076
Prep Batch: 660-80034
Units: mg/Kg

Analyte | Result | Qual | MDL | PQL
--- | --- | --- | --- | ---
Silver | 0.19 | U | 0.19 | 1.0
Arsenic | 0.23 | U | 0.23 | 0.50
Barium | 0.16 | U | 0.16 | 1.0
Cadmium | 0.087 | U | 0.087 | 0.50
Chromium | 0.17 | U | 0.17 | 1.0
Lead | 0.15 | U | 0.15 | 0.50
Selenium | 0.37 | U | 0.37 | 1.0

---

Lab Control Sample - Batch: 660-80034

Lab Sample ID: LCS 660-80034/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/04/2009 1027
Date Prepared: 06/04/2009 0646

Analysis Batch: 660-80076
Prep Batch: 660-80034
Units: mg/Kg

Analyte | Spike Amount | Result | % Rec. | Limit | Qual
--- | --- | --- | --- | --- | ---
Silver | 50.0 | 50.3 | 101 | 75 - 125 |
Arsenic | 50.0 | 48.7 | 97 | 75 - 125 |
Barium | 50.0 | 51.5 | 103 | 75 - 125 |
Cadmium | 50.0 | 51.9 | 104 | 75 - 125 |
Chromium | 49.5 | 50.5 | 102 | 75 - 125 |
Lead | 50.0 | 49.8 | 100 | 75 - 125 |
Selenium | 50.0 | 44.1 | 88 | 75 - 125 |

Calculations are performed before rounding to avoid round-off errors in calculated results.
**Quality Control Results**

**Client:** S.M. Stoller Corporation

**Job Number:** 660-29745-1

---

**Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-80034**

**Method:** 6010B  
**Preparation:** 3050B

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<tr>
<th>Analyte</th>
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<th>Limit</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>MS Qual</th>
<th>MSD Qual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>91</td>
<td>75 - 125</td>
<td>6</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arsenic</td>
<td>88</td>
<td>75 - 125</td>
<td>7</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barium</td>
<td>89</td>
<td>75 - 125</td>
<td>6</td>
<td>20</td>
<td></td>
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</tr>
<tr>
<td>Cadmium</td>
<td>90</td>
<td>75 - 125</td>
<td>7</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chromium</td>
<td>89</td>
<td>75 - 125</td>
<td>7</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>91</td>
<td>75 - 125</td>
<td>6</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Selenium</td>
<td>81</td>
<td>75 - 125</td>
<td>6</td>
<td>20</td>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
### Method Blank - Batch: 660-80035

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<th>Result</th>
<th>Qual</th>
<th>MDL</th>
<th>PQL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
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<td>U</td>
<td>0.19</td>
<td>1.0</td>
</tr>
<tr>
<td>Arsenic</td>
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<td>U</td>
<td>0.23</td>
<td>0.50</td>
</tr>
<tr>
<td>Barium</td>
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<td>U</td>
<td>0.16</td>
<td>1.0</td>
</tr>
<tr>
<td>Cadmium</td>
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<td>U</td>
<td>0.087</td>
<td>0.50</td>
</tr>
<tr>
<td>Chromium</td>
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<td>U</td>
<td>0.17</td>
<td>1.0</td>
</tr>
<tr>
<td>Lead</td>
<td>0.15</td>
<td>U</td>
<td>0.15</td>
<td>0.50</td>
</tr>
<tr>
<td>Selenium</td>
<td>0.37</td>
<td>U</td>
<td>0.37</td>
<td>1.0</td>
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### Lab Control Sample - Batch: 660-80035

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Spike Amount</th>
<th>Result</th>
<th>% Rec.</th>
<th>Limit</th>
<th>Qual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>50.0</td>
<td>50.0</td>
<td>100</td>
<td>75 - 125</td>
<td></td>
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<tr>
<td>Arsenic</td>
<td>50.0</td>
<td>48.7</td>
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<td>75 - 125</td>
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</tr>
<tr>
<td>Barium</td>
<td>50.0</td>
<td>50.7</td>
<td>101</td>
<td>75 - 125</td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
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<td>75 - 125</td>
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<tr>
<td>Chromium</td>
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<td>75 - 125</td>
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<tr>
<td>Lead</td>
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Calculations are performed before rounding to avoid round-off errors in calculated results.
### Quality Control Results

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

#### Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-80035

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<th>MS Lab Sample ID: 660-29745-13</th>
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<td><strong>Client Matrix:</strong> Solid</td>
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<tr>
<td><strong>Dilution:</strong> 1.0</td>
<td><strong>Dilution:</strong> 1.0</td>
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<tr>
<td><strong>Date Analyzed:</strong> 06/04/2009</td>
<td><strong>Date Analyzed:</strong> 06/04/2009</td>
</tr>
<tr>
<td><strong>Date Prepared:</strong> 06/04/2009</td>
<td><strong>Date Prepared:</strong> 06/04/2009</td>
</tr>
</tbody>
</table>

**Analysis Batch:** 660-80076  
**Prep Batch:** 660-80035  
**Instrument ID:** TJA ICP  
**Lab File ID:** 9F04B  
**Initial Weight/Volume:** 1.0 g  
**Final Weight/Volume:** 50 mL

<table>
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<th>Limit</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>MS Qual</th>
<th>MSD Qual</th>
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<tbody>
<tr>
<td>Silver</td>
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<td>97</td>
<td>75 - 125</td>
<td>6</td>
<td>20</td>
<td></td>
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</tr>
<tr>
<td>Arsenic</td>
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<td>95</td>
<td>75 - 125</td>
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<td>Barium</td>
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<tr>
<td>Lead</td>
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<td>97</td>
<td>75 - 125</td>
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<td>Selenium</td>
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**Method:** 6010B  
**Preparation:** 3050B

Calculation are performed before rounding to avoid round-off errors in calculated results.
**Quality Control Results**

**Method Blank - Batch: 660-80203**

<table>
<thead>
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<tbody>
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<td>Client Matrix:</td>
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<tr>
<td>Dilution:</td>
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<td>Date Prepared:</td>
<td>06/08/2009 1049</td>
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**Analysis Batch: 660-80234**

<table>
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<tr>
<th>Units:</th>
<th>mg/Kg</th>
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</thead>
</table>

**Analyte**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qual</th>
<th>MDL</th>
<th>PQL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>0.025</td>
<td>U</td>
<td>0.025</td>
<td>0.067</td>
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</tbody>
</table>

**Lab Control Sample - Batch: 660-80203**

<table>
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<tr>
<th>Lab Sample ID:</th>
<th>LCS 660-80203/2-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client Matrix:</td>
<td>Solid</td>
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<tr>
<td>Dilution:</td>
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</tr>
<tr>
<td>Date Analyzed:</td>
<td>06/08/2009 1241</td>
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<tr>
<td>Date Prepared:</td>
<td>06/08/2009 1049</td>
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**Analysis Batch: 660-80234**

<table>
<thead>
<tr>
<th>Units:</th>
<th>mg/Kg</th>
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</table>

**Analyte**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Spike Amount</th>
<th>Result</th>
<th>% Rec.</th>
<th>Limit</th>
<th>Qual</th>
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<tbody>
<tr>
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**Matrix Spike/Matrix Spike Duplicate Recovery Report - Batch: 660-80203**

**Method: 7471A**

**Preparation: 7471A**

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<td>Dilution:</td>
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**Analysis Batch: 660-80234**

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<th>Units:</th>
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**Analyte**

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<tbody>
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</tr>
<tr>
<td>Dilution:</td>
<td>1.0</td>
</tr>
<tr>
<td>Date Analyzed:</td>
<td>06/08/2009 1250</td>
</tr>
<tr>
<td>Date Prepared:</td>
<td>06/08/2009 1049</td>
</tr>
</tbody>
</table>

**Analysis Batch: 660-80234**

<table>
<thead>
<tr>
<th>Units:</th>
<th>mg/Kg</th>
</tr>
</thead>
</table>

**Analyte**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>% Rec.</th>
<th>MS</th>
<th>MSD</th>
<th>Limit</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>MS Qual</th>
<th>MSD Qual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>131</td>
<td>121</td>
<td>80 - 120</td>
<td>4</td>
<td>20</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

Calculations are performed before rounding to avoid round-off errors in calculated results.
### Quality Control Results

**Job Number:** 660-29745-1

**Client:** S.M. Stoller Corporation

---

#### Method Blank - Batch: 660-80206

<table>
<thead>
<tr>
<th>Client Matrix</th>
<th>Lab Sample ID</th>
<th>Method Blank - Batch</th>
<th>Analysis Batch</th>
<th>Prep Batch</th>
<th>Instrument ID</th>
<th>Lab File ID</th>
<th>Initial Weight/Volume</th>
<th>Final Weight/Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>MB 660-80206/1-A</td>
<td>660-80206</td>
<td>660-80234</td>
<td>660-80206</td>
<td>Hg Analyzer</td>
<td>N/A</td>
<td>0.3 g</td>
<td>50 mL</td>
</tr>
</tbody>
</table>

---

#### Analyte Result

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qual</th>
<th>MDL</th>
<th>PQL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>0.025</td>
<td>U</td>
<td>0.025</td>
<td>0.067</td>
</tr>
</tbody>
</table>

---

#### Lab Control Sample - Batch: 660-80206

<table>
<thead>
<tr>
<th>Client Matrix</th>
<th>Lab Sample ID</th>
<th>Lab Control Sample - Batch</th>
<th>Analysis Batch</th>
<th>Prep Batch</th>
<th>Instrument ID</th>
<th>Lab File ID</th>
<th>Initial Weight/Volume</th>
<th>Final Weight/Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>LCS 660-80206/2-A</td>
<td>660-80206</td>
<td>660-80234</td>
<td>660-80206</td>
<td>Hg Analyzer</td>
<td>N/A</td>
<td>0.3 g</td>
<td>50 mL</td>
</tr>
</tbody>
</table>

---

#### Analyte Spike Amount

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Spike Amount</th>
<th>Result</th>
<th>% Rec.</th>
<th>Limit</th>
<th>Qual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>0.167</td>
<td>0.162</td>
<td>97</td>
<td>80 - 120</td>
<td></td>
</tr>
</tbody>
</table>

---

#### Matrix Spike/

#### Matrix Spike Duplicate Recovery Report - Batch: 660-80206

<table>
<thead>
<tr>
<th>Client Matrix</th>
<th>MS Lab Sample ID</th>
<th>MS Lab Control Sample - Batch</th>
<th>Analysis Batch</th>
<th>Prep Batch</th>
<th>Instrument ID</th>
<th>Lab File ID</th>
<th>Initial Weight/Volume</th>
<th>Final Weight/Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>660-29745-10</td>
<td>660-80206</td>
<td>660-80234</td>
<td>660-80206</td>
<td>Hg Analyzer</td>
<td>N/A</td>
<td>0.3 g</td>
<td>50 mL</td>
</tr>
</tbody>
</table>

---

#### Analyte % Rec.

<table>
<thead>
<tr>
<th>Analyte</th>
<th>MS</th>
<th>MSD</th>
<th>Limit</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>MS Qual</th>
<th>MSD Qual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>106</td>
<td>104</td>
<td>80 - 120</td>
<td>2</td>
<td>20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Calculations are performed before rounding to avoid round-off errors in calculated results.

---

**TestAmerica Tampa**

*Page 58 of 61*  
*06/09/2009*
<table>
<thead>
<tr>
<th>SAMPLE</th>
<th>SAMPLE IDENTIFICATION</th>
<th>COMPOSITION</th>
<th>MATRIX TYPE</th>
<th>NUMBER OF CONTAINERS SUBMITTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-2-09</td>
<td>1020 PIN2φ - CP - L1</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
<tr>
<td></td>
<td>1000 PIN2φ - TRP1</td>
<td>G</td>
<td>AIR</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>1015 PIN2φ - EQB1</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
<tr>
<td></td>
<td>1025 PIN2φ - CP - L2</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
<tr>
<td></td>
<td>1032 PIN2φ - CP - L3</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
<tr>
<td></td>
<td>1038 PIN2φ - CP - L4</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
<tr>
<td></td>
<td>1015 PIN2φ - CP - L5</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
<tr>
<td></td>
<td>1052 PIN2φ - CP - L6</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
<tr>
<td></td>
<td>1100 PIN2φ - CP - L7</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
<tr>
<td></td>
<td>1108 PIN2φ - CP - L8</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
<tr>
<td></td>
<td>1116 PIN2φ - CP - L9</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
<tr>
<td></td>
<td>1123 PIN2φ - CP - L10</td>
<td>G</td>
<td>AIR</td>
<td>2 1 1 2</td>
</tr>
</tbody>
</table>

RELINQUISHED BY: (SIGNATURE) [Signature] 6/28/09 0900 A. C. 6/28/09 0900 A. C.
# Analysis Request and Chain of Custody Record

**TestAmerica**  
**The Leader in Environmental Testing**

**Serial Number:** 13115

<table>
<thead>
<tr>
<th>Project Reference</th>
<th>Project Location (State)</th>
<th>Matrix Type</th>
<th>Required Analysis</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAR Center 4.5 Acre</td>
<td>FL</td>
<td>AIR</td>
<td>STANDARD REPORT DELIVERY</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EXPEDITED REPORT DELIVERY (SUPERCHARGE)</td>
<td>2</td>
</tr>
</tbody>
</table>

| Sample | Sample Identification | Composite (G) or Grab (G) | NOx | CO | SO2 | HC | VOCs | AP | PAH | PCBs | PRB | R2AP | REE | Others | Non-AP | Other | Value of | Date Last | Value of | Value of | Remarks |
|--------|------------------------|---------------------------|-----|----|-----|----|------|----|-----|-------|------|-------|------|--------|--------|-------|---------|----------|---------|---------|---------|----------|
| 6-2-09 | 1132 PIN2φ – CP - L11 | G | ✓ | 2 | 1 | 1 | ✓ | 2 | | | | | | | | | | | | | |
| 6-2-09 | 1143 PIN2φ – CP - L12 | G | ✓ | 2 | 1 | 1 | ✓ | 2 | | | | | | | | | | | | | |
| 6-2-09 | PIN2φ – CP - DUP1 | G | ✓ | 2 | 1 | 1 | ✓ | 2 | | | | | | | | | | | | | |

**Relinquished By:** (Signature)  
**Date:** 5-27-09 10:40  
**Time:** 09:00

**Received By:** (Signature)  
**Date:** 5-28-09 09:00  
**Time:** 17:23

**Custody Intact:** Yes | No | Custody Seal No.: TAMPA LOG NO.: 600-29745

**Cooler Temp. Upon Receipt:** 1.9°C 23.2°C

**Laboratory Remarks:**  
**Laboratory Use Only:**

---

**TestAmerica Tampa**  
**6712 Benjamin Road, Suite 100**  
**Tampa, FL 33634**

**Website:** www.testamericainc.com  
**Phone:** (813) 885-7427  
**Fax:** (813) 885-7049

---

**Company Contracting This Work:** Bryan, Large, FL 33777

---

**Alternate Laboratory Name/Location:**

**Phone:**

**Fax:**
## Login Sample Receipt Check List

**Client:** S.M. Stoller Corporation  
**Job Number:** 660-29745-1

**Login Number:** 29745  
**Creator:** Harrison, Amanda  
**List Number:** 1  
**List Source:** TestAmerica Tampa

<table>
<thead>
<tr>
<th>Question</th>
<th>T / F / NA</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity either was not measured or, if measured, is at or below</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>background</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seal, if present, is intact.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>The cooler or samples do not appear to have been compromised or</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>tampered with.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Samples were received on ice.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is acceptable.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is recorded.</td>
<td>True</td>
<td>1.9 and 2.0 degrees C</td>
</tr>
<tr>
<td>COC is present.</td>
<td>True</td>
<td>CU-07</td>
</tr>
<tr>
<td>COC is filled out in ink and legible.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the sample IDs on the containers and</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>the COC.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Samples are received within Holding Time.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample containers have legible labels.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/times are provided.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are used.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample bottles are completely filled.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There is sufficient vol. for all requested analyses, incl. any requested</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>MS/MSDs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not have headspace or bubble is &lt;6mm (1/4&quot;) in</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>diameter.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If necessary, staff have been informed of any short hold time or quick TAT</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>needs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiphasic samples are not present.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples do not require splitting or compositing.</td>
<td>True</td>
<td></td>
</tr>
</tbody>
</table>