December 17, 2008

Mr. David Hartshorn  
GSA Heartland Region  
Safety & Environmental Team Leader  
Facilities Management Division 6PF  
1500 East Bannister Road Room 2101  
Kansas City, Missouri 64131-3088  

RE: Child Care Center Lead Survey – Goodfellow Federal Center, St. Louis, Missouri (MO0610)  
Project No. 98130.05

Dear Mr. Hartshorn:

Thank you for the opportunity to provide the General Services Administration (GSA) with the subject survey. The following is our report.

BACKGROUND

As requested, OCCU-TEC conducted lead testing services at the Child Care Center, located at the Goodfellow Federal Center, in St. Louis, Missouri. The water and paint testing took place on November 6, 2008. The purpose of the testing is to determine the presence and potential exposure of small children to lead through drinking water and lead-based paint. Potential sources of lead in drinking water include lead solder joints, lead service lines, and in rare instances, the water supply itself. Lead compounds in paint, such as white lead and lead chromate were used primarily as color pigments. Children can become exposed to lead in paint by directly eating paint chips, or chewing on protruding surfaces. The most common route of exposure, however, is the ingestion of lead-bearing dust that is generated by the paint when it deteriorates, chalks, or is disturbed by building renovation activities.

EXPERIMENTAL

Sampling areas were limited to only faucets and drinking fountains accessed by children and painted surfaces within the reach of children. Other areas of the building were not included in the subject survey.
Drinking water was collected from 11 locations within the Child Care Center. Samples were collected in 500 milliliter containers that were supplied by the analytical laboratory (Bureau Veritas – North America). The drinking water samples were submitted via Fed Ex to Bureau Veritas - North America for independent analyses. Bureau Veritas is accredited by the AIHA for analyses of lead in drinking water. Bureau Veritas used EPA Method 200.8 for analysis. The Analytical results and Chain-of-Custody information are presented in the Attachments.

The paint inspection was conducted using RMD’s LPA-1 X-ray Florescence (XRF) detector. This model is state of the art equipment using x-ray radiation to analyze numerous paint layers for lead, with a 95% confidence level. There were 52 distinct sampling locations tested for the presence of lead-based paint in this facility.

RESULTS AND DISCUSSION

Water Sampling

The laboratory data from Bureau Veritas indicates that the results ranged from ND (Not Detected at the Reporting Limit) to 18 ug/L.

Paint Testing

No painted surfaces within the subject survey area tested positive for lead-based paint using the Housing of Urban Development (HUD) lead standard of 1.0 milligram per square centimeter (1.0 mg/cm²). Refer to the attached XRF Sample Sheet(s) for complete testing results.

SUMMARY

The maximum level allowed by federal, state and local drinking water standards or Maximum contaminant level (MCL) for lead in drinking water is 15 ug/L or 15 parts per billion. One of the water samples (GW-11) from the Multipurpose Room had results above this level. Refer to the field drawing for the location of this sample. All other sample results were within acceptable levels. No lead-based paint above the HUD Lead Standard of 1.0 mg/cm² was identified within the subject survey area.

OCCU-TEC appreciates the opportunity to work with you on this project. Please contact us if we can be of further assistance. We look forward to future opportunities to provide our services to you.

Sincerely,

Jeff T. Smith
Project Manager

Attachments
December 17, 2008

Jeff Smith
OCCU-TEC
6501 E. Commerce
Suite 230
Kansas City, MO 64120-

Bureau Veritas Work Order No. 08120123

Reference: FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05

Dear Jeff Smith:

Bureau Veritas North America, Inc. received 11 samples on 12/3/2008 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Ellen Coffman
Client Services Representative

cc: Michael Wantland (Bureau Veritas)
CASE NARRATIVE

Client: GENERAL SERVICES ADMINISTRATION
Project: FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05
Work Order No 08120123

Date: 17-Dec-08

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

This is a revised report. The sample descriptions for "GW-10" and GW-11" have been changed as requested on 12-17-08.
## Analytical Results

**Client:** GENERAL SERVICES ADMINISTRATION  
**Project:** FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05  
**Lab ID:** 08120123-001A  
**Matrix:** DRINKING WATER  
**Client Sample ID:** GW-01-HALLWAY-FOUNTAIN  
**Tag Number:**  
**Collection Date:** 11/6/2008

### Analyses

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<th>Qual</th>
<th>Units</th>
<th>DF</th>
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### Qualifiers:
- ND - Not Detected at the Reporting Limit (RL).
- J - Analyte detected below the Reporting Limit
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- T - Tentatively Identified Compound (TIC)
## ANALYTICAL RESULTS

**Client:** GENERAL SERVICES ADMINISTRATION  
**Work Order No:** 08120123  
**Project:** FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05  
**Lab ID:** 08120123-002A  
**Matrix:** DRINKING WATER  
**Client Sample ID:** GW-02-HALLWAY-FOUNTAIN  
**Tag Number:**  
**Collection Date:** 11/6/2008  
**Date:** 17-Dec-08

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### ANALYTICAL RESULTS

**Client:** GENERAL SERVICES ADMINISTRATION  
**Project:** FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05  
**Lab ID:** 08120123-003A  
**Matrix:** DRINKING WATER  
**Client Sample ID:** GW-03-YELLOW RM KITCHEN  
**Tag Number:**  
**Collection Date:** 11/6/2008  
**Date:** 17-Dec-08  
**Work Order No:** 08120123

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## ANALYTICAL RESULTS

**Client:** GENERAL SERVICES ADMINISTRATION  
**Work Order No:** 08120123  
**Project:** FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05  
**Lab ID:** 08120123-004A  
**Matrix:** DRINKING WATER  
**Client Sample ID:** GW-04-TEAL FOUNTAIN  
**Tag Number:**  
**Collection Date:** 11/6/2008  
**Date:** 17-Dec-08

### Analyses

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**ANALYTICAL RESULTS**

**Client:** GENERAL SERVICES ADMINISTRATION  
**Work Order No:** 08120123  
**Project:** FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05  
**Lab ID:** 08120123-005A  
**Matrix:** DRINKING WATER  
**Client Sample ID:** GW-05-BLUE FOUNTAIN  
**Tag Number:**  
**Collection Date:** 11/6/2008  

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## Analytical Results

**Client:** GENERAL SERVICES ADMINISTRATION  
**Project:** FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05  
**Lab ID:** 08120123-006A  
**Matrix:** DRINKING WATER  
**Client Sample ID:** GW-06-KITCHEN SINK  
**Tag Number:**  
**Collection Date:** 11/6/2008  
**Date:** 17-Dec-08  

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### ANALYTICAL RESULTS

**Client:** GENERAL SERVICES ADMINISTRATION  
**Work Order No:** 08120123  
**Project:** FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05  
**Lab ID:** 08120123-007A  
**Matrix:** DRINKING WATER  
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**Tag Number:**  
**Collection Date:** 11/6/2008  

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- E - Value above quantitation range
- T - Tentatively Identified Compound (TIC)
**ANALYTICAL RESULTS**

Date: 17-Dec-08

Client: GENERAL SERVICES ADMINISTRATION
Work Order No: 08120123

Project: FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05

Lab ID: 08120123-008A
Client Sample ID: GW-08-PURPLE FOUNTAIN
Tag Number:
Collection Date: 11/6/2008

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## ANALYTICAL RESULTS

**Date:** 17-Dec-08

**Client:** GENERAL SERVICES ADMINISTRATION

**Project:** FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05

**Lab ID:** 08120123-009A

**Matrix:** DRINKING WATER

**Client Sample ID:** GW-09-YELLOW RM SINK

**Tag Number:**

**Collection Date:** 11/6/2008

### Analyses

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## ANALYTICAL RESULTS

**Date:** 17-Dec-08  
**Client:** GENERAL SERVICES ADMINISTRATION  
**Work Order No.:** 08120123  
**Project:** FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05  
**Lab ID:** 08120123-010A  
**Client Sample ID:** GW-10 MULTIPURPOSE ROOM  
**Matrix:** DRINKING WATER  
**Tag Number:**  
**Collection Date:** 11/6/2008

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### Analytical Results

**Client:** GENERAL SERVICES ADMINISTRATION  
**Project:** FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05  
**Lab ID:** 08120123-011A  
**Matrix:** DRINKING WATER  
**Client Sample ID:** GW-11-MULTIPURPOSE ROOM  
**Tag Number:**  
**Collection Date:** 11/6/2008

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**Request for Laboratory Analytical Services**

**Bureau Veritas North America, Inc.**

**Detroit Lab**
22345 Roshalin Drive
Novi, MI 48375
(800) 805-5887
(248) 344-1770
Fax (248) 344-2655

**Atlanta Lab**
3300 Chastain Meadows Pkwy, Ste 300
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
Fax (770) 499-7511

**Chicago Lab**
95 Oakwood Road
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
Fax (847) 726-3323

**Name:** Jeff Smith

**Company:** Occu-Tec

**Mailing Address:** GSO1 - E Commerce Suite 230

**City, State, Zip:** Kansas City, MO 64120

**Telephone No.:** 816-231-5580

**Fax No.:** 816-231-5641

**Special Instructions:** Federal Center Good Fellow - St. Louis MO

**Explanation of Preservation:** Uncle Sans Kids

**Client Sample Identification**

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<tr>
<th>Client Sample Identification</th>
<th>Date Sampled</th>
<th>Matrix/Media</th>
<th>Air Volume (specify units)</th>
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<tr>
<td>GW-01 - Hallway Fountain</td>
<td>11-6</td>
<td>Water</td>
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<td>GW-02 - Hallway Fountain</td>
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<td>GW-03 - Yellow Rm Kitchen</td>
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<td>GW-04 - Teal Fountain</td>
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<td>GW-05 - Blue Fountain</td>
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<td>GW-06 - Kitchen Sink</td>
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**Chain of Custody**

Collected by: Jeff Smith

Rebinned by: Jeff Smith

Rebinned by: Jeff Smith

Method of Shipment: FedEx

Authorized by: Jeff Smith

Date: 11-10-08

Collector's Signature: Jeff Smith

Received by: Jeff Smith

Received by: Jeff Smith

Received at Lab by: Jeff Smith

Sample Condition Upon Receipt: Acceptable

Page 1 of 1
UNCLE SAM'S KIDS

Evacuation Routes

Playground

Playground

Plaza Area

Black arrow indicates 2nd evacuation route.
## XRF Sample Sheet

**Client:** GSA Heartland Region  
**Project:** Child Care Lead Testing  
**Building:** Goodfellow Federal Center, St. Louis, MO  
**Project Number:** 98130.05  
**Date:** 11/6/2008  
**Page:** 1 of 2

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<th>Location</th>
<th>Component</th>
<th>Color</th>
<th>Substrate</th>
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**Color Key**
- B - Beige  
- BK - Black  
- BL - Blue  
- BW - Brown  
- C - Cream  
- G - Green  
- PR - Purple  
- P - Papery  
- Li - Light  

**Component Key**
- D - Door, DF - Door Frame, DJ - Door Jamb  
- SB - Stair Baseboard, SR - Stair Riser, R - Railing  
- W - Wall, C - Ceiling, BB - Baseboard  
- WS - Window Sill, WA - Window Apron,  
- WS - Window Well, WSH - Window Sash  
- WM - Window Mullions, WF - Window Frame  
- WSC - Window Screen, WJ, Window Jamb  
- CB - Cabinet, CI - Cabinet Interior, CNT - Counter  
- P - Pipe, VC - Vent Cover, CT - Ceiling Tile  
- M - Metal  

**Condition Key**
- I - Intact  
- F - Fair  
- P - Poor  

**Substrate Key**
- D - Drywall  
- V - Varnish  
- G - Glass  
- WC - Wall Covering  
- M - Metal  
- ST - Stair Tread, RC - Rail Cap, B - Balusters  
- NP - Newel Post, CLM - Column, CM - Crown Moulding  
- DWT - Drywall w/ Texture

CC - Calibration Check  
F://SHARE/FORMS/Operations/XRFsampleLog.xls
## XRF Sample Sheet

**Client:** GSA Heartland Region  
**Project:** Child Care Lead Testing  
**Building:** Goodfellow Federal Center, St. Louis, MO  
**Project Number:** 98130.05  
**Date:** 11/6/2008

### Sample Sheet

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### Color Key

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<td>BK - Black</td>
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<td>BL - Blue</td>
<td>O - Orange</td>
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<td>BW - Brown</td>
<td>PK - Pink</td>
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<td>C - Cream</td>
<td>PR - Purple</td>
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<tr>
<td>G - Green</td>
<td>P - Papered</td>
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### Component Key

<table>
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<tr>
<td>D - Door, DF - Door Frame, DJ - Door Jamb</td>
<td>SB - Stair Baseboard, SR - Stair Riser, R - Rail</td>
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<td>W - Wall, C - Ceiling, BB - Baseboard</td>
<td>ST - Stair Tread, RC - Railng Cap, B - Balusters</td>
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<td>WS - Window Sill, WA - Window Apron, WW - Window Well, WSH - Window Sash</td>
<td>NP - Newel Post, CLM - Column, CM - Crown Moulding</td>
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<tr>
<td>WM - Window Mullian, WF - Window Frame</td>
<td>CB - Cabinet, CI - Cabinet Interior, CNT - Counter</td>
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<td>WSC - Window Screen, WJ, Window Jamb</td>
<td>P - Pipe, VC - Vent Cover, CT - Ceiling Tile</td>
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### Substrate Key

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<td>V - Vinyl</td>
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<td>G - Glass</td>
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**CC - Calibration Check**

F://SHARE/FORMS/Operations/XRFsampleLog.xls
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ENVIRONMENTAL REGULATION & LICENSURE

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Jeffrey T Smith

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Director
Department of Health and Senior Services

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