April 30, 2018

Diane Czarnecki  
Industrial Hygienist  
Facilities Management Division  
General Services Administration – Heartland Region

Re: OSHA Side-By-Side Air and Wipe Samples  
Goodfellow Federal Complex - Building 104  
4300 Goodfellow Boulevard  
St. Louis, Missouri 63120

Ms. Czarnecki:

On April 3, 2018, OCCU-TEC, Inc. (OCCU-TEC) conducted a site-walk and collected side-by-side air and wipe samples for metals at various locations throughout Building 104 at the Goodfellow Federal Complex located at the above address. Sample locations were in close proximity to samples that were collected by representatives of the Occupational Safety and Health Administration (OSHA) during their site visit.

OCCU-TEC collected a total of four (4) indoor air samples and four (4) indoor wipe samples of various surfaces. Samples were analyzed for Resource Conservation and Recovery Act 7 Metals by NIOSH Method 7300.

Concentrations of chemicals of concern were detected in samples collected. Laboratory analytical results are attached to this report. If you have any questions, please contact me at (816) 994-3416. Thank you for choosing OCCU-TEC.

Best Regards,

Kevin Heriford  
Project Manager
# Airborne Metals Concentration
by Inductively-Coupled Plasma Analysis (ICP)

## NIOSH Method 7300

**Client:** Occu-Tec, Inc.  
**Attn:** Clayton Goth  
**Lab Order ID:** 11809175  
**Date Received:** 04/13/2018  
**Date Reported:** 04/23/2018  
**Project:** GFC OSHA Split

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Description</th>
<th>Volume (L)</th>
<th>Element</th>
<th>Reporting Limit (µg)</th>
<th>Concentration (µg)</th>
<th>Concentration (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C9</td>
<td>Column C9</td>
<td>379.04</td>
<td>Ag**</td>
<td>Not Analyzed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>As</td>
<td>0.25</td>
<td>&lt; 0.25</td>
<td>&lt; 0.66</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ba*</td>
<td>0.025</td>
<td>0.19</td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cd</td>
<td>0.025</td>
<td>&lt; 0.025</td>
<td>&lt; 0.066</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cr*</td>
<td>0.075</td>
<td>0.97</td>
<td>2.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pb</td>
<td>0.13</td>
<td>&lt; 0.13</td>
<td>&lt; 0.34</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Se</td>
<td>0.25</td>
<td>&lt; 0.25</td>
<td>&lt; 0.66</td>
</tr>
<tr>
<td>11809175IPA_1</td>
<td></td>
<td></td>
<td>Ag**</td>
<td>Not Analyzed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>As</td>
<td>0.25</td>
<td>&lt; 0.25</td>
<td>&lt; 0.63</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ba*</td>
<td>0.025</td>
<td>0.071</td>
<td>0.18</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cd</td>
<td>0.025</td>
<td>&lt; 0.025</td>
<td>&lt; 0.063</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cr**</td>
<td>Not Analyzed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pb</td>
<td>0.13</td>
<td>&lt; 0.13</td>
<td>&lt; 0.33</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Se</td>
<td>0.25</td>
<td>&lt; 0.25</td>
<td>&lt; 0.63</td>
</tr>
<tr>
<td>E46</td>
<td>Column E46</td>
<td>399.64</td>
<td>Ag**</td>
<td>Not Analyzed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11809175IPA_2</td>
<td></td>
<td></td>
<td>As</td>
<td>0.25</td>
<td>&lt; 0.25</td>
<td>&lt; 0.63</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ba*</td>
<td>0.025</td>
<td>0.071</td>
<td>0.18</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cd</td>
<td>0.025</td>
<td>&lt; 0.025</td>
<td>&lt; 0.063</td>
</tr>
</tbody>
</table>

**Melissa Ferrell**  
**Analyst**

This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by AIHA or any other agency of the U.S. government. Scientific Analytical Institute participates in the AIHA IHPAT program. IHPAT Laboratory ID: 173190. Unless otherwise noted blank sample correction was not performed on analytical results. MDLs are available upon request. Reporting limits stated above.
### Sample ID | Description | Volume (L) | Element | Reporting Limit (µg) | Concentration (µg) | Concentration (µg/m³)  
--- | --- | --- | --- | --- | --- | ---  
G45 | Column G45 | 412 | Ag** | Not Analyzed |  
| | | | As | 0.25 | < 0.25 | < 0.61  
| | | | Ba* | 0.025 | 0.16 | 0.39  
| | | | Cd | 0.025 | < 0.025 | < 0.061  
| | | | Cr* | 0.075 | 1.0 | 2.4  
| 11809175IPA_3 | | | Pb | 0.13 | < 0.13 | < 0.32  
| | | | Se | 0.25 | < 0.25 | < 0.61  
J24 | Column J24 | 479.98 | Ag** | Not Analyzed |  
| | | | As | 0.25 | < 0.25 | < 0.52  
| | | | Ba* | 0.025 | 0.053 | 0.11  
| | | | Cd | 0.025 | < 0.025 | < 0.052  
| | | | Cr* | 0.075 | 3.2 | 6.7  
| 11809175IPA_4 | | | Pb | 0.13 | < 0.13 | < 0.27  
| | | | Se | 0.25 | < 0.25 | < 0.52  

*Matrix matched QC showed media contribution of 0.71 µg Ba and 0.54 µg Cr  
**Quality control for Ag failed after multiple analyses, no reportable results available  

---  
**Melissa Ferrell**  
Analyst  
**Lab Director**  

---  
Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888  
I-F-001 EXP: 2/27/2020
## Dust Wipe Metals Concentration by Inductively-Coupled Plasma Analysis (ICP)

**NIOSH 7300/EPA SW-846 3050B**

### Client Information
- **Client:** Occu-Tec, Inc.
- **Address:** 100 NW Business Park Ln., Riverside, MO 64150
- **Attn:** Clayton Goth
- **Lab Order ID:** 11809176
- **Date Received:** 04/13/2018
- **Date Reported:** 04/23/2018
- **Project:** GFC OSHA Split

### Project Summary
- Lab Sample ID: 11809176IPW_1
- Lab Sample ID: 11809176IPW_2
- Lab Sample ID: 11809176IPW_3

### Sample Information

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Description</th>
<th>Area (ft²)</th>
<th>*Element</th>
<th>Reporting Limit (µg)</th>
<th>Concentration (µg)</th>
<th>Concentration (µg/ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wipe 1</td>
<td>Contractor scaffold</td>
<td>1</td>
<td>Ag**</td>
<td>Not Analyzed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>As</td>
<td>0.25</td>
<td>&lt; 0.25</td>
<td>&lt; 0.25</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ba*</td>
<td>0.050</td>
<td>170</td>
<td>170</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cd</td>
<td>0.050</td>
<td>&lt; 0.050</td>
<td>&lt; 0.050</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cr*</td>
<td>0.10</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pb</td>
<td>0.25</td>
<td>0.95</td>
<td>0.95</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Se</td>
<td>2.5</td>
<td>&lt; 2.5</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Wipe 3</td>
<td>Shelf at E16</td>
<td>1</td>
<td>Ag**</td>
<td>Not Analyzed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>As</td>
<td>0.25</td>
<td>&lt; 0.25</td>
<td>&lt; 0.25</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ba*</td>
<td>0.050</td>
<td>8.1</td>
<td>8.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cd</td>
<td>0.050</td>
<td>0.39</td>
<td>0.39</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cr*</td>
<td>0.10</td>
<td>2.3</td>
<td>2.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pb</td>
<td>0.25</td>
<td>1.8</td>
<td>1.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Se</td>
<td>2.5</td>
<td>&lt; 2.5</td>
<td>&lt; 2.5</td>
</tr>
<tr>
<td>Wipe 4</td>
<td>File cart 41</td>
<td>1</td>
<td>Ag**</td>
<td>Not Analyzed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>As</td>
<td>0.25</td>
<td>0.54</td>
<td>0.54</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ba*</td>
<td>0.050</td>
<td>38</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cd</td>
<td>0.050</td>
<td>0.27</td>
<td>0.27</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cr*</td>
<td>0.10</td>
<td>0.48</td>
<td>0.48</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pb</td>
<td>0.25</td>
<td>2.2</td>
<td>2.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Se</td>
<td>2.5</td>
<td>&lt; 2.5</td>
<td>&lt; 2.5</td>
</tr>
</tbody>
</table>

*SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.*

Unless otherwise noted blank sample correction was not performed on analytical results. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. MDLs are available upon request. Time-weighted average (TWA) calculations are based on customer supplied data and valid only for samples included in the specified TWA group. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190.

**Daniel Olson**

**Analyst**

**Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888**

(b) (6)
### Dust Wipe Metals Concentration
by Inductively-Coupled Plasma Analysis (ICP)

**NIOSH 7300/EPA SW-846 3050B**

**Client:** Occu-Tec, Inc.  
**Address:** 100 NW Business Park Ln.  
**City:** Riverside, MO 64150  
**Attn:** Clayton Goth  
**Lab Order ID:** 11809176  
**Date Received:** 04/13/2018  
**Date Reported:** 04/23/2018  
**Project:** GFC OSHA Split  
**Page:** 2 of 2

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Description</th>
<th>Area (ft²)</th>
<th>*Element</th>
<th>Reporting Limit (µg)</th>
<th>Concentration (µg)</th>
<th>Concentration (µg/ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lab Sample ID</strong></td>
<td><strong>Lab Notes</strong></td>
<td></td>
<td><strong>Ag</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wipe 5</td>
<td>Top of locker 176</td>
<td>1</td>
<td>As</td>
<td>0.25</td>
<td>0.45</td>
<td>0.45</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ba*</td>
<td>0.050</td>
<td>4.4</td>
<td>4.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cd</td>
<td>0.050</td>
<td>0.059</td>
<td>0.059</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cr*</td>
<td>0.10</td>
<td>&lt; 0.10</td>
<td>&lt; 0.10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pb</td>
<td>0.25</td>
<td>0.38</td>
<td>0.38</td>
</tr>
<tr>
<td>11809176IPW_4</td>
<td></td>
<td></td>
<td>Se</td>
<td>2.5</td>
<td>&lt; 2.5</td>
<td>&lt; 2.5</td>
</tr>
</tbody>
</table>

*Matrix matched QC showed media contribution of 0.71 µg Ba and 0.54 µg Cr*

**Quality control for Ag failed after multiple analyses, no reportable results available**

---

**Daniel Olson**  
**Analyst**

**Lab Director**

---

*SAI is AIHA ELLAP accredited for Pb only for dust wipe metals.*

Unless otherwise noted, blank sample correction was not performed on analytical results. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. MDLs are available upon request. Time-weighted average (TWA) calculations are based on customer supplied data and valid only for samples included in the specified TWA group. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190.
Company Contact Information

Company: Occu-tec, Inc.
Address: 100 NW Business Park Lane
Riverside, MO 64150

Contact: Clayton Gotha
Phone: 816.519.5242
Fax: 
Email: cgotha@occuste.com

Billing/Invoice Information

SAME 

<table>
<thead>
<tr>
<th>Turn Around Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAME</td>
</tr>
<tr>
<td>Company:</td>
</tr>
<tr>
<td>Contact:</td>
</tr>
<tr>
<td>Address:</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

PO Number: 418004
Project Name/Number: GFC OSHA Split

Industrial Hygiene Test Types

- Silica as Alpha Quartz (XSA)
- Silica as Cristobalite (XSC)
- Silica as Tridymite (XST)
- Bulk Phase ID/Whole Rock (XUK)
- Total Dust
- Respirable Dust
- Total Dust NIOSH Method 0500 (GTD)
- Respirable Dust NIOSH Method 0600 (GRD)
- PCM NIOSH 7400-A Rules (PCM)
- 8 Rules (PCB) TWA (PTA)
- TEM NIOSH 7402 (Asbestos) (TMS)
- Hexavalent Chromium (OSHA ID-215)
- Metals (NIOSH 7300) (Specify Metals Under Comments)

Other: DSHA 1266/NIOSH 7300

* Modified NIOSH 7500/OSHA ID 142

Sample ID # | Description/Location | Volume/Area | Comments
--- | --- | --- | ---
Wipe 1 | Contractor Scaffold | 1sf | RCRA 8 (not included)
Wipe 3 | Shelf @ E10 | 1sf |
Wipe 4 | File Cart 41 | 1sf |
Wipe 5 | Top of Locker 176 | 1sf |
C9 | Column C9 | 379.04 L |
E46 | Column E46 | 399.64 L |
G45 | Column G45 | 412 L |
J24 | Column J24 | 479.98 L |

Total # of Samples: 8

Relinquished by: 
Date/Time: 4/4/18
Received by: 
Date/Time: 4/11/18

Page 1 of 1