



July 17, 2020

Mark Yokum, Chief Counsel  
Appvion Operations, Inc.  
825 E. Wisconsin Avenue  
P.O. Box 359  
Appleton, WI 54912-0359

**Subject: Post-remedial Groundwater Sampling Results**  
**BRRTS#: 02-45-000015**

Dear Mr. Yokum:

In accordance with the executed Agreement to Provide Access for Sampling Activities, and in accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, EnviroForensics, LLC (EnviroForensics) is providing the results of groundwater samples collected from monitoring wells MW-2, MW-5, and MW-5A located on Appvion property at 714 North Lawe Street in Appleton, Wisconsin. The groundwater samples were collected on July 1, 2020 to monitor progress of groundwater remedial actions taken by Albany International, Inc. last summer. The chemical of concern (COC) for the investigation is total dissolved chromium.

The groundwater samples were analyzed for total dissolved chromium, iron, and manganese. The location of all groundwater monitoring wells on Appvion property are shown on attached **Figure 1**. The sampling activities were conducted at the direction of the WDNR as part of the post-remedial monitoring that they require. The WDNR has assigned the following identification to the former cleaning facility: BRRTS# 02-45-000015.

The Responsible Party is:

Albany International.  
P.O. Box 1939  
Appleton, WI 54913

## Sampling Results

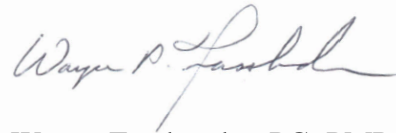
The sample analytical results are summarized and compared to public health criteria in the attached **Table 1**. An excerpt from the laboratory report is also attached.

As can be seen in **Table 1**, dissolved total chromium was not detected in concentrations exceeding the laboratory detection limits in any of the samples. Total dissolved iron and manganese concentrations exceeded applicable WDNR standards; however, these elements are integral reactants of the remedial injection process to reduce chromium and are anticipated to decrease over time.

If you have any questions or concerns, please contact me at 414-982-3988 or by email at [wfassbender@enviroforensics.com](mailto:wfassbender@enviroforensics.com). The WDNR project manager, Jennifer Borski, can be reached at 920-424-7887. We greatly appreciate your help and patience with this matter.

Sincerely,

**EnviroForensics, LLC**

A handwritten signature in black ink that reads "Wayne P. Fassbender".

Wayne Fassbender, PG, PMP  
*Senior Project Manager*

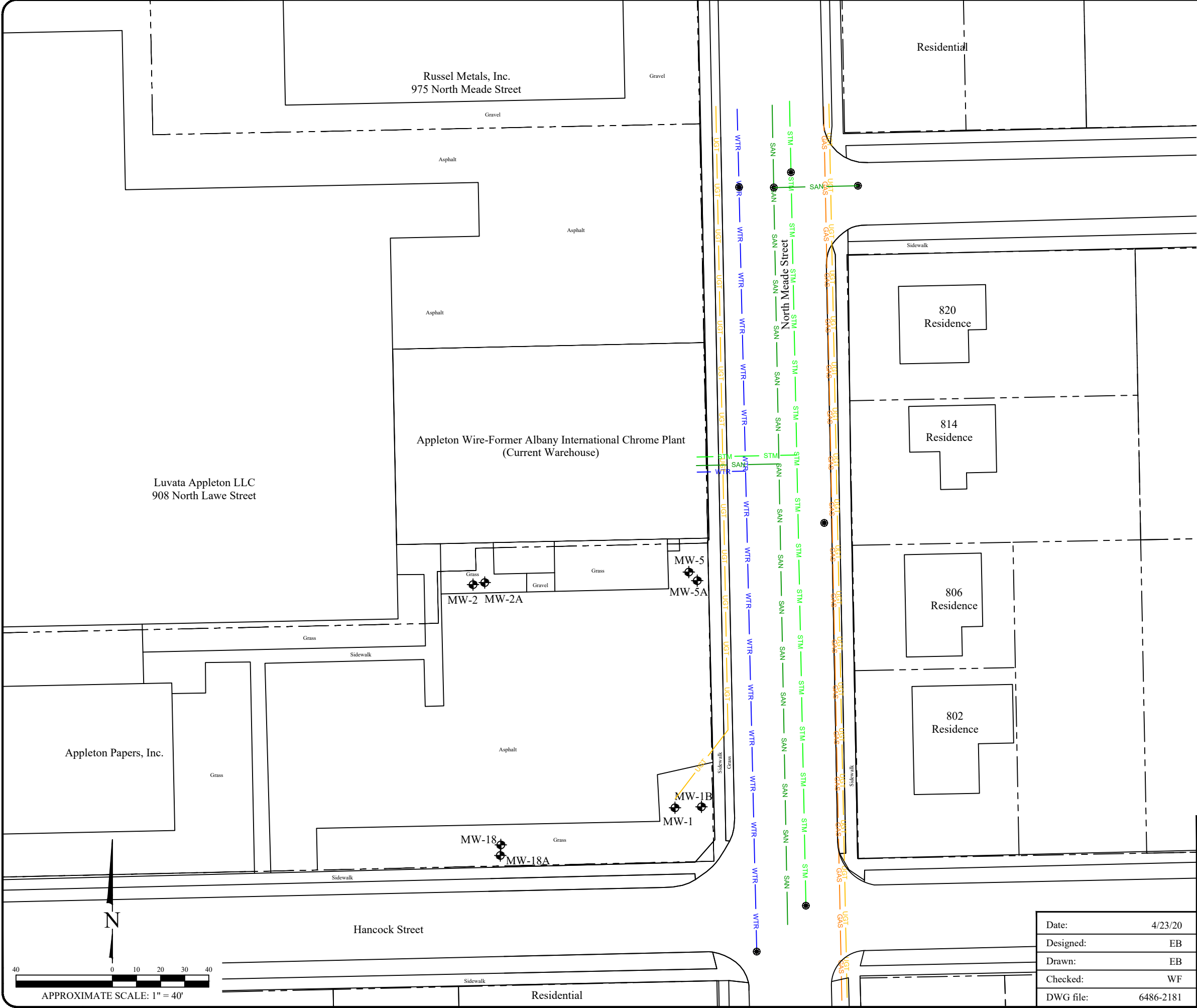
Copy: Jennifer Borski, Wisconsin Department of Natural Resources

Attachments:

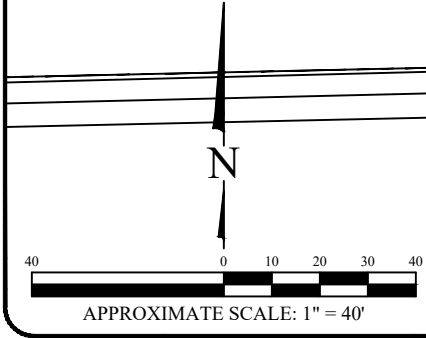
Figure 1: Monitoring Well Location Map

Table 1: Groundwater Remediation Performance Monitoring Data

Groundwater Laboratory Analytical Report Excerpt



- ### Legend
- Property boundary
  - GAS Underground gas utility line
  - WTR Underground water utility line
  - SAN Underground sanitary utility line
  - UGT Fiber optics line
  - STM Underground storm utility line
  - Manhole
  - MW-1 Monitoring well



<b>MONITORING WELL LOCATION MAP</b>															
Albany International - Luvata Site 908 North Lawe Street Appleton, Wisconsin															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Date:</td><td>4/23/20</td></tr> <tr><td>Designed:</td><td>EB</td></tr> <tr><td>Drawn:</td><td>EB</td></tr> <tr><td>Checked:</td><td>WF</td></tr> <tr><td>DWG file:</td><td>6486-2181</td></tr> </table>	Date:	4/23/20	Designed:	EB	Drawn:	EB	Checked:	WF	DWG file:	6486-2181	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">Figure</td><td style="text-align: center;">1</td></tr> <tr><td style="text-align: center;">Project</td><td style="text-align: center;">6486</td></tr> </table>	Figure	1	Project	6486
Date:	4/23/20														
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Figure	1														
Project	6486														
<p style="font-size: small; margin: 0;">825 North Capitol Avenue • Indianapolis, IN 46204 EnviroForensics.com</p>															

**TABLE 1**  
**GROUNDWATER REMEDIATION PERFORMANCE MONITORING DATA**  
Former Appleton Wire Facility  
908 North Lawe Street, Appleton, Wisconsin

Monitoring Well Identification	Screen Interval	Remediaion Status	Sample Date	Dissolved Metals		
				Chromium	Manganese	Iron
Reporting Units				µg/L	µg/L	µg/L
MW-2		Pre	6/29/2017	29.5	NA	NA
			8/31/2017	<2.5	NA	NA
		Post Full Scale	7/1/2020	<3.9	14.8	100
MW-5		Pre	8/31/2017	256	NA	NA
		Post Full Scale	4/10/2020	12.7 J	462	13,800
			7/1/2020	<3.9	408	11,500
MW-5A		Post Full Scale	7/1/2020	<3.9	1,050	13,500

**Notes:**

**Bolded** values are above laboratory detection limits  
**Bolded** and blue colored values are above the groundwater preventative action limit (PAL)  
**Bolded** and orange colored values are above the groundwater enforcement standard (ES)  
J = Analyte concentration detected between the laboratory Reporting Limit and Method Detection Limit  
NA = Not Analyzed  
µg/L = micrograms per liter

**Project Name** ALBANY CHROME SITE  
**Project #** 6486 PO#2020-1492

**Invoice #** E38141

**Lab Code** 5038141J  
**Sample ID** 6486-MW25  
**Sample Matrix** Water  
**Sample Date** 7/1/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	0.68	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	139	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

**Lab Code** 5038141K  
**Sample ID** 6486-MW19AR  
**Sample Matrix** Water  
**Sample Date** 7/1/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	0.13	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	28.9	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

**Lab Code** 5038141L  
**Sample ID** 6486-MW5  
**Sample Matrix** Water  
**Sample Date** 7/1/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	11.5	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	408	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

**Lab Code** 5038141M  
**Sample ID** 6486-MW5A  
**Sample Matrix** Water  
**Sample Date** 7/1/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	13.5	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	1050	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

**Project Name** ALBANY CHROME SITE  
**Project #** 6486 PO#2020-1492

**Invoice #** E38141

**Lab Code** 5038141N  
**Sample ID** 6486-MW2  
**Sample Matrix** Water  
**Sample Date** 7/1/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	0.1	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	14.8	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

**Lab Code** 5038141O  
**Sample ID** 6486-MW32  
**Sample Matrix** Water  
**Sample Date** 7/2/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	0.06 "J"	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	59.9	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

**Lab Code** 5038141P  
**Sample ID** 6486-MW32A  
**Sample Matrix** Water  
**Sample Date** 7/2/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	0.16	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	38.3	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

**Lab Code** 5038141Q  
**Sample ID** 6486-MW31A  
**Sample Matrix** Water  
**Sample Date** 7/2/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Inorganic										
Metals										
Chromium, Total	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Total	217	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Total	7310	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1