



April 29, 2019

Jennifer Borski
Wisconsin Department of Natural Resources
625 East County Road Y, Suite 700
Oshkosh, WI 54901-9731

Re: Amendment to the Remedial Action Plan
Appleton Wire (Former)
908 N. Lawe Street
Appleton, Wisconsin 54911
BRRTS# 02-45-000015

Dear Ms. Borski:

This letter presents an amendment to the Remedial Action Plan (RAP) submitted to the department on April 11, 2019. As described in the RAP, the plan for remediation outside the warehouse to the north included soil blending to 15 feet below ground surface (bgs) starting at a distance of 5 feet from the north wall. A line of injection points just outside and parallel to the wall was proposed to treat contaminated soil and groundwater around the footing(s).

After the RAP was submitted, the soil blending subcontractor disclosed their protocol to establish a 1:1 slope ratio away from building footings in order to avoid structural support concerns. To avoid any issues related to structural impairment or having to go through a structural engineering assessment, the proposed remediation plan for the area north of the warehouse is amended as follows:

1. Additional injection points have been added further north of the warehouse wall, and this area has been designated injection Area F as depicted on revised **Figure 15** (attached). The remedial solution will be injected from 6 to 20 feet bgs in the Area F injection points at the same mixing ratio and volume prescribed for the other injection points.
2. Soil blending operations in Area C (see RAP **Figure 16**, attached for reference) will start 6 feet north of the building wall, and the blending depth will be restricted to 6 feet bgs across the entire area.

In summary, the amended RAP changes the treatment approach for the area north of the warehouse only. Treatment in that area will be accomplished using a combination of shallow soil blending and deeper injections, which is the same approach proposed for treatment of the interior areas. The overall proposed treatment zone remains unchanged.



If you have any questions regarding this submittal, feel free to contact me at 414-982-3988 or by email at wfassbender@enviroforensics.com.

Sincerely,
EnviroForensics, LLC

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

Wayne Fassbender, PG, PMP
Senior Project Manager

enclosures

cc: JP Hammerton, Albany International
Joe Gaug, Albany International



Certifications

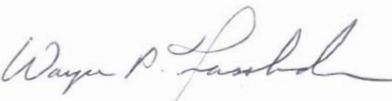
I, Andrew Horwath, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Senior Engineer, PE Lic. No. E-43831-6

Signature, title and P.E. number

P.E. stamp

I, Wayne Fassbender, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

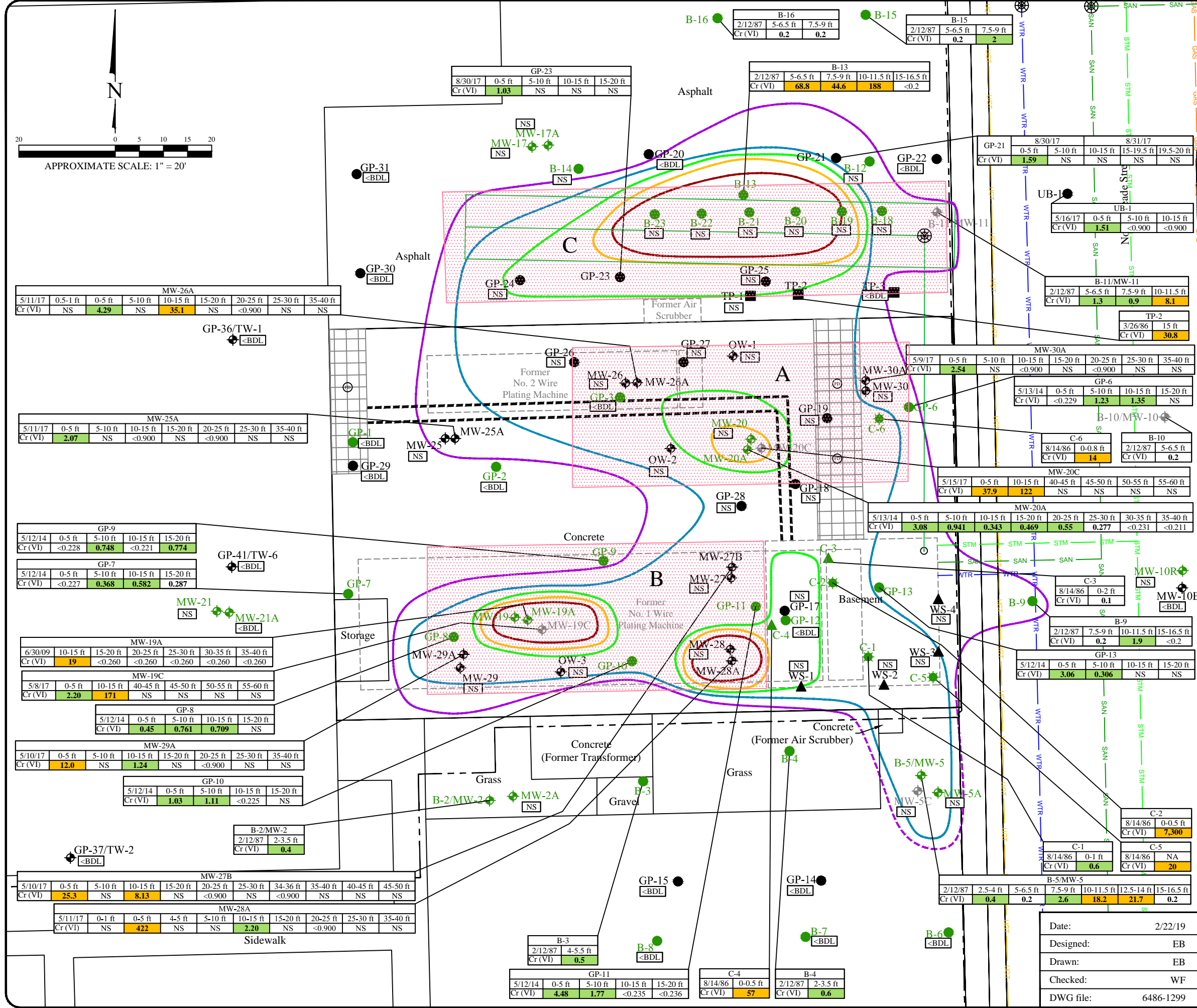
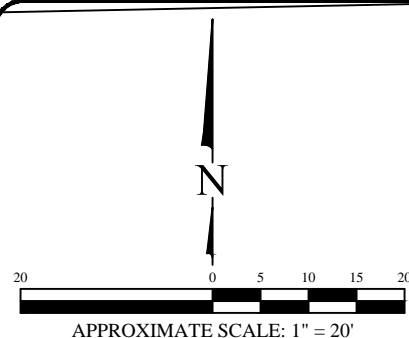


Signature and title

Senior Project Manager

4/29/19

Date



Legend

- Property boundary
- GAS
- WTR
- SAN
- UGT
- STM
- Pipe chase
- French drain and associated piping
- Sump
- Former Sump
- Floor drain
- B-1
- GP-1
- C-1
- C-3
- MW-1
- MW-18
- MW-19
- MW-10
- MW-4
- B-1
- Dairy tile floor

Analyte	Soil to Groundwater Residual Contaminant Level	Non-Industrial Residual Contaminant Level	Industrial Residual Contaminant Level
Cr (VI)	3.84*	0.301	6.36

- Note:
1. Bold shaded blue values exceed WDNR Soil to Groundwater Residual Contaminant Level
 2. Bold shaded green values exceed WDNR Non-Industrial Residual Contaminant Level
 3. Bold shaded orange values exceed WDNR Industrial Residual Contaminant Level
 4. Bold values exceed laboratory detection levels
 5. Cr and Cr (VI) standards and analytical results are reported in milligram per kilogram (mg/kg)
 6. Cr (VI) = Hexavalent Chromium
 7. Cr = Chromium
 8. NA = Not analyzed
 9. NS = Not sampled
 10. <BDL = Below laboratory detection limits
 11. * = Calculated using EPA Risk-Based Screening Level Calculator
 12. Lab LOD = Laboratory limit of detecting

- Chromium VI concentrations 1 mg/kg
- Chromium VI concentrations 5 mg/kg
- Chromium VI concentrations 50 mg/kg
- Chromium VI concentrations 100 mg/kg
- Chromium VI concentrations 150 mg/kg
- Dashed boundaries are inferred
- Proposed soil blending zones A, B, and C

PROPOSED SOIL BLENDING ZONES

Albany International - Luvata Site
908 North Lawe Street
Appleton, Wisconsin

Date:	2/22/19
Designed:	EB
Drawn:	EB
Checked:	WF
DWG file:	6486-1299

825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure	16
Project	6486