

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM:

Completion of the applicable portions of this form is required under Wis. Admin. Code § NR 724.13(3). Failure to submit this form as required is a violation of that rule section and is subject to the penalties in Wis. Stats. § 292.99. This form must be submitted every six months for remediation projects that report operation and maintenance progress, in accordance with Wis. Admin. Code §. NR 724.13(3). A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Submittal of this form is not a substitute for reporting required by department programs such as Waste Water or Air Management.

Notes:

1. Long-term monitoring results submitted in accordance with Wis. Admin. Code § NR 724.17(3) are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with that section of code.
2. Responsible parties should check with the department Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent state-lead response.
3. Responsible parties should check with the department Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and should obtain prior written approval for any omissions or changes.
4. Responsible parties are required to report separately on a semi-annual basis under Wis. Admin. Code § NR 700.11(1). Reporting under that provision is through an internet-based form. More information can be found at: <http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf>.
5. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by Remediation and Redevelopment Program. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Public Records Law (Wis. Stats. §§ 19.31–19.39).

Section GI - General Site Information

A. General Information

1. Site name Appleton Wire (Former)										
2. Reporting period from:		01/01/2020		To:		06/30/2020		Days in period:		182
3. Regulatory agency (enter DNR, DATCP and/or other) DNR					4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific) 02-45-000015					
5. Site location										
Region Northeast Region		County Outagamie			Address 908 N. Lawe Street					
Municipality name <input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village Appleton					Township 21 N	Range <input checked="" type="radio"/> E <input type="radio"/> W 17	Section 25	¼ NW	¼ SW	
6. Responsible party					7. Consultant					
Name Albany International Corp., Joseph Gaug is Representative					<input type="checkbox"/> Select if the following information has changed since the last submittal					
Mailing address 445 Patroon Creek Blvd, Suite 206, Albany, NY 12206					Company name EnviroForensics, LLC					
Phone number (518) 445-2273					Mailing address N16W23390 Stone Ridge Drive, Suite G			Phone number (262) 290-4001		
8. Contaminants Hexavalent Chromium										
9. Soil types (USCS or USDA) Silty Clay										
10. Hydraulic conductivity(cm/sec): 0.00001 by Slug testing					11. Average linear velocity of groundwater (ft/yr) 1.6					

Site name: Appleton Wire (Former)
 Reporting period from: 01/01/2020 To: 06/30/2020
 Days in period: 182

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 06/20)

Page 2 of 29

12. If soil is treated ex situ, is the treatment location off site? Yes No

If yes, give location: Region	County				
Municipality name <input type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village	Township N	Range <input type="radio"/> E <input type="radio"/> W	Section	¼	¼ ¼

B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- Other ex situ remediation method (submit a completed Section ES-3).
- Site is a landfill (submit a completed Section LF-1).
- Biopiles (submit a completed Section ES-1).
- Other in situ soil remediation method (submit a completed Section IS-3).
- Soil natural attenuation (submit a completed Section IS-2).
- Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- Other groundwater remediation method (submit a completed Section GW-4).
- Groundwater natural attenuation (submit a completed Section GW-3).
- In situ air sparging (submit a completed Section GW-2).
- Free product recovery (submit a completed Section GW-1).
- Groundwater extraction (submit a completed Section GW-1).

C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attentuation), complete this subsection.

1. Is the system operating at design rates and specifications? Yes No
 If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

2. Are modifications to the system warranted to improve effectiveness Yes No
 If yes, explain:

3. Is natural attenuation an effective low cost option at this time? Yes No
4. Is closure sampling warranted at this time? Yes No
5. Are there any modifications that can be made to the remediation to improve cost effectiveness? Yes No
 If yes, explain:

Site name: Appleton Wire (Former)
Reporting period from: 01/01/2020 To: 06/30/2020
Days in period: 182

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 06/20)

Page 3 of 29

D. Economic and Cost Data to Date

- | | |
|--|--------------|
| 1. Total investigation cost: | \$300,600.00 |
| 2. Implementation costs (design, capital and installation costs, excluding investigation costs): | \$867,850.00 |
| 3. Total costs during the previous reporting period: | \$867,850.00 |
| 4. Total costs during this reporting period: | \$36,500.00 |
| 5. Total anticipated costs for the next reporting period: | \$32,000.00 |
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? Yes No

If yes, explain:

Replacement of former groundwater monitoring wells abandoned during soil blending operations. Cost of \$22,850.

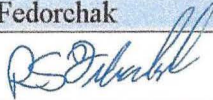
7. If closure is anticipated within 12 months, estimated costs for project closeout:

E. Name(s), Signature(s) and Date of Person(s) Submitting Form

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.


Registered Professional Engineers:

I 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.

Print name Robert S. Fedorchak	Title Senior Engineer
Signature 	Date 08/14/2020

Hydrogeologists:

I 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.

Print name Wayne Fassbender	Title Senior Project Manager
Signature 	Date 8/19/20

Scientists:

I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), 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.

Print name	Title
Signature	Date

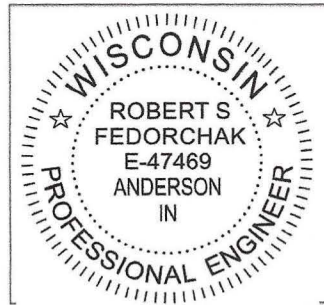
Other Persons:

Print name	Title
Signature	Date

Site name: Appleton Wire (Former)
Reporting period from: 01/01/2020 To: 06/30/2020
Days in period: 182

**Remediation Site Operation, Maintenance,
Monitoring & Optimization Report**
Form 4400-194 (R 06/20) Page 4 of 29

Professional Seal(s), if applicable:



Site name: Appleton Wire (Former)
Reporting period from: 01/01/2020 To: 06/30/2020
Days in period: 182

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 06/20)

Page 9 of 29

Section GW-4, Other Groundwater Remediation Methods

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a.
 - a. Contaminant: Hexavalent Chromium
 - b. Percent reduction necessary: 8 %
 - c. Maximum contaminant concentration level in any monitoring well: 10.9 µg/L
2. Is the size of the plume: Increasing Stabalized Decreasing ?
3. Describe the method used to remediate groundwater at the site:

Groundwater was injected with a combination of proprietary products produced by Regenesis®. The injectable products were a combination of organics (3DME) and a colloidal sulfidated ZVI (S-Micro ZVI). The organic materials were expected to provide a food source for native soil bacteria resulting in sustained subsurface reducing conditions conducive to the reduction of hexavalent chromium to trivalent chromium. The ZVI also produces subsurface reducing conditions and provides an electron donor for further chromium reduction and also provides a chemical reactant to produce insoluble and immobile chromium-iron hydroxide precipitates.
4. List any additional information required by the DNR for this method for this site:

Injection permit request approved May 22, 2019. Modified injection permit request approved July 31, 2019. Remedial Construction Documentation Report provided, dated January 31, 2020.

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- Any other attachments required by the DNR for this remediation method.

TABLE 1
GROUNDWATER ELEVATION DATA

Former Appleton Wire
908 N. Lawe St., Appleton, WI 54911

Well Identification	Date	TOC Elevation (feet AMSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-1	06/20/17	767.62	6.20	761.42
	07/26/17	767.62	9.27	758.35
	08/29/17	767.62	8.63	758.99
	04/07/20	767.62	6.01	761.61
	06/30/20	767.62	6.03	761.59
MW-1B	04/07/20	767.72	28.84	738.88
MW-2	06/20/17	768.55	7.98	760.57
	07/26/17	768.55	8.62	759.93
	08/29/17	768.55	8.70	759.85
	04/10/20	768.55	6.24	762.31
	06/30/20	768.55	6.55	762.00
MW-2A	06/20/17	770.56	15.21	755.35
	07/26/17	770.56	15.24	755.32
	08/29/17	770.56	14.79	755.77
	04/10/20	770.56	13.57	756.99
MW-5	04/07/20	767.86	2.14	765.72
MW-5A	06/20/17	767.61	46.50	721.11
	07/26/17	767.61	2.58	765.03
	08/29/17	767.61	3.32	764.29
MW-10R	06/20/17	767.31	5.44	761.87
	07/26/17	767.31	5.47	761.84
	08/29/17	767.31	6.12	761.19
	06/30/20	767.31	5.35	761.96
MW-10B	06/20/17	767.01	28.69	738.32
	07/26/17	767.01	0.20	766.81
	08/29/17	767.01	20.24	746.77
MW-17	06/20/17	771.92	8.97	762.95
	07/26/17	771.92	9.03	762.89
	08/29/17	771.92	8.91	763.01
	04/10/20	771.92	5.98	765.94
	06/30/20	771.92	5.55	766.37
MW-17A	06/20/17	771.66	14.77	756.89
	07/26/17	771.66	14.99	756.67
	08/29/17	771.66	17.90	753.76
	04/10/20	771.66	13.29	758.37
MW-18	06/20/17	769.97	8.60	761.37
	07/26/17	769.97	8.44	761.53
	08/29/17	769.97	8.64	761.33
	04/10/20	769.97	8.14	761.83
	06/30/20	769.97	8.03	761.94
MW-18A	06/20/17	770.61	26.11	744.50
	07/26/17	770.61	34.04	736.57
	08/29/17	770.61	29.09	741.52
	04/10/20	770.61	25.00	745.61
MW-19R	04/07/20	768.42	2.55	765.87
MW-20R	04/07/20	768.44	1.86	766.58
MW-20AR	04/07/20	768.38	11.58	756.80
MW-21	06/20/17	769.02	5.43	763.59
	07/26/17	769.02	5.49	763.53
	8/29/17	769.02	5.91	763.11
	06/30/20	769.02	4.19	764.83

TABLE 1
GROUNDWATER ELEVATION DATA

Former Appleton Wire
908 N. Lawe St., Appleton, WI 54911

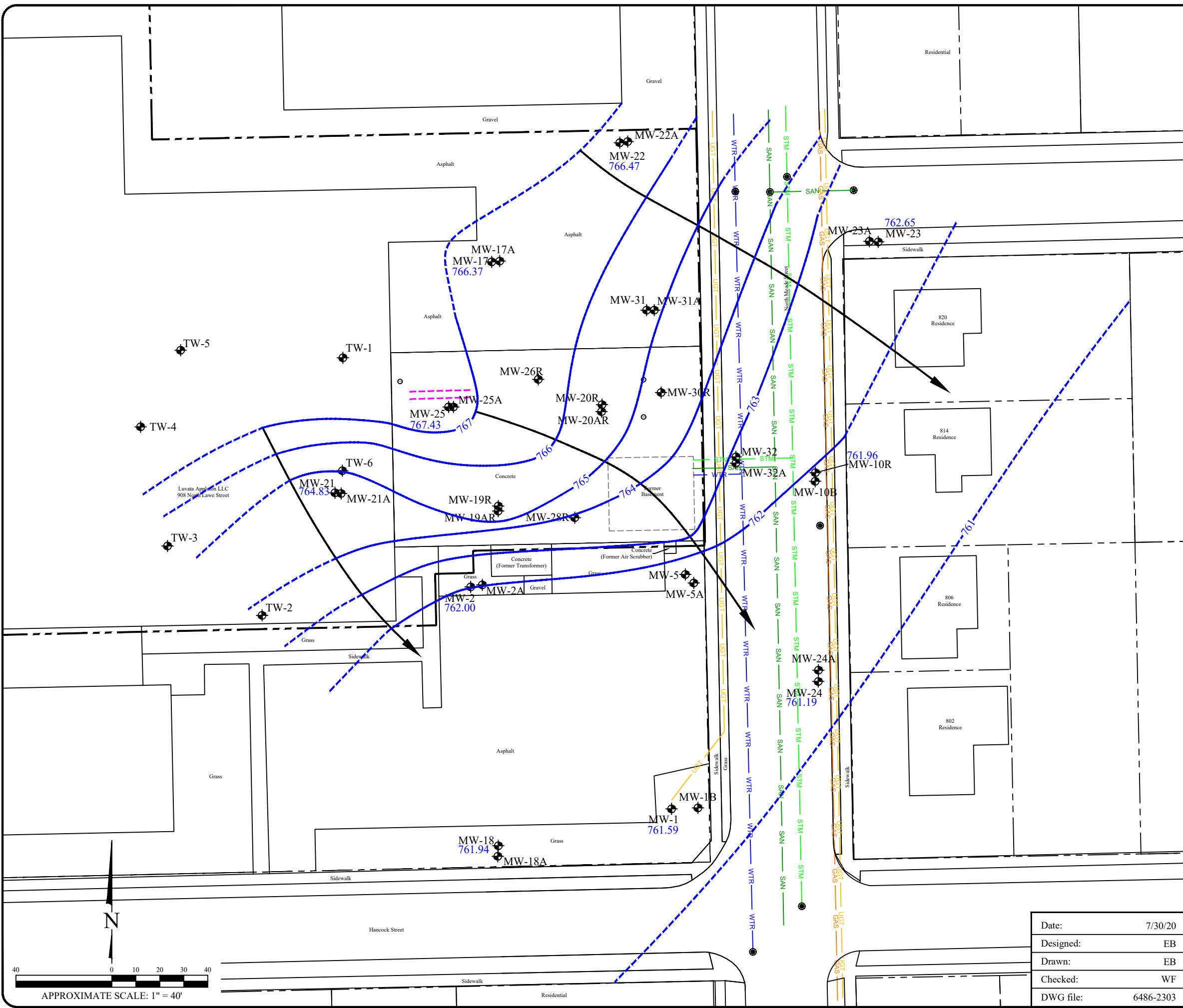
Well Identification	Date	TOC Elevation (feet AMSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-21A	06/20/17	769.09	13.18	755.91
	07/26/17	769.09	20.64	748.45
	08/29/17	769.09	13.53	755.56
MW-22	06/20/17	769.01	3.02	765.99
	07/26/17	769.01	3.27	765.74
	08/29/17	769.01	3.56	765.45
	04/07/20	769.01	2.90	766.11
	06/30/20	769.01	2.54	766.47
MW-22A	06/20/17	769.17	35.01	734.16
	07/26/17	769.17	29.64	739.53
	08/29/17	769.17	21.54	747.63
MW-23	06/20/17	767.95	6.13	761.82
	07/26/17	767.95	6.41	761.54
	08/29/17	767.95	6.82	761.13
	04/07/20	767.95	4.97	762.98
	06/30/20	767.95	5.30	762.65
MW-23A	06/20/17	767.75	36.32	731.43
	07/26/17	767.75	31.53	736.22
	08/29/17	767.75	24.03	743.72
	04/07/20	767.75	21.70	746.05
MW-24	06/20/17	766.89	5.64	761.25
	07/26/17	766.89	5.61	761.28
	08/29/17	766.89	5.85	761.04
	04/07/20	766.89	5.95	760.94
	06/30/20	766.89	5.70	761.19
MW-24A	06/20/17	767.02	22.21	744.81
	07/26/17	767.02	11.21	755.81
	08/29/17	767.02	15.63	751.39
	04/07/20	767.02	15.83	751.19
MW-25	06/20/17	768.46	2.80	765.66
	07/26/17	768.46	3.51	764.95
	08/29/17	768.46	3.49	764.97
	04/07/20	768.46	1.26	767.20
	06/30/20	768.46	1.03	767.43
MW-25A	06/20/17	768.45	20.32	748.13
	07/26/17	768.45	21.64	746.81
	08/29/17	768.45	14.91	753.54
	04/07/20	768.45	9.72	758.73
MW-28R	04/07/20	768.39	4.36	764.03
MW-30R	04/07/20	768.42	2.32	766.10
MW-31	04/07/20	768.65	0.80	767.85
MW-31A	04/07/20	768.70	9.17	759.53
MW-32	04/07/20	767.2	4.92	762.28

Notes

All values are in feet
 AMSL = above mean sea level
 DTW = Depth to water
 TOC = Top of Casing
 Monitoring wells re-surveyed in May 2017
 NM= Not measured

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
- Pipe chase
- Floor drain
- Manhole
- TW-1 Monitoring well
- 764 Groundwater elevation contour
- Dashed boundaries are inferred
- 761.59 Groundwater elevation (feet above mean sea level)
- Approximate groundwater flow direction



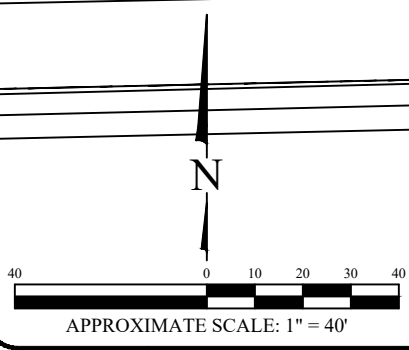
DIRECTION OF GROUNDWATER FLOW
JUNE 30, 2020

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

Date:	7/30/20
Designed:	EB
Drawn:	EB
Checked:	WF
DWG file:	6486-2303

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

Figure	1
Project	6486

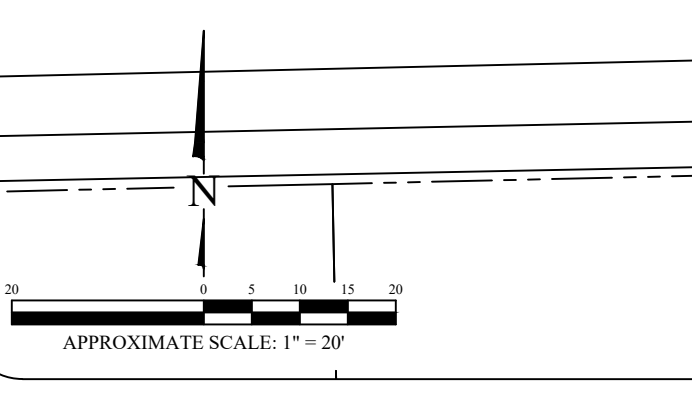
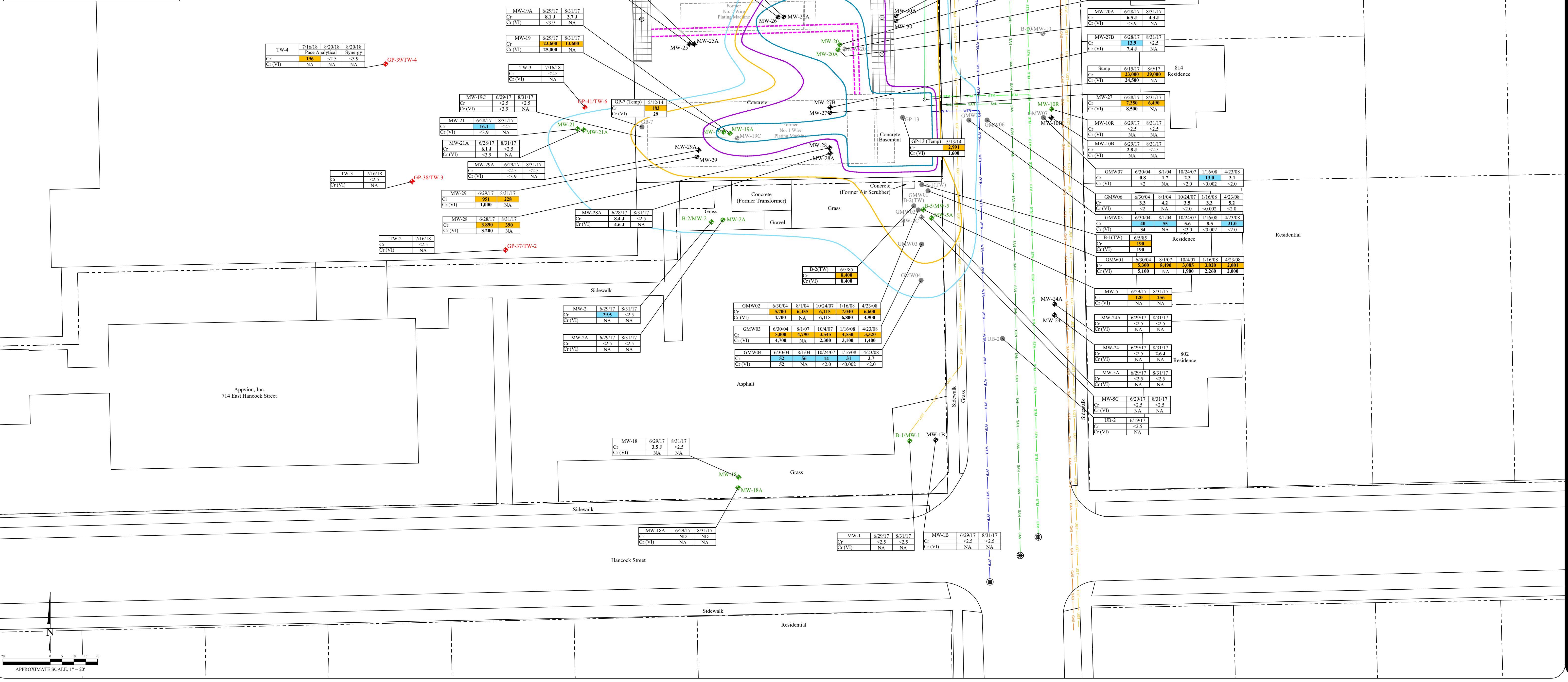


Legend

- Property boundary
- Underground gas utility line
- Underground water utility line
- Underground sanitary utility line
- Fiber optics line
- Underground storm utility line
- Pipe chase
- French drain and associated piping
- Stump
- Former Sump
- Floor drain
- Manhole
- Abandoned temporary well
- Monitoring well (Others)
- Abandoned monitoring well
- Monitoring well (EnviroForensics)
- Temporary well New (EnviroForensics)
- Dairy tile floor

Analyte	Public Health Preventive Action Limit	Public Health Enforcement Standard
Cr	10	100
Cr(VI)	NE	NE

- Note:
- All groundwater samples were filtered and are representative of dissolved phase Cr and Cr(VI).
 - Bolded and orange shaded values exceed the Public Health Enforcement Standard.
 - Bolded and blue shaded values exceed the Public Health Preventive Action Limit.
 - Bolded values are above detection limits.
 - J = Analyte concentration less than laboratory detection limits.
 - Samples analyzed using EPA SW-846 Method 8260.
 - All results reported in units of micrograms per liter (µg/L).
 - Cr(VI) = Hexavalent Chromium
 - Cr = Total Chromium
 - ND = Not detected
 - NA = Not analyzed
 - NE = Not established
 - Synergy = Synergy Environmental Laboratory, Inc.
 - Pace Analytical = Pace Analytical Services, LLC
- Area exceeding PAL for Total chromium >10 µg/L
 - Area exceeding ES for Total chromium >100 µg/L
 - Total chromium concentrations >5,000 µg/L
 - Total chromium concentrations >25,000 µg/L
 - Dashed boundaries are inferred
- MW-19 Water table observation well (with 10 foot screen length)
 MW-19A Piezometer (with 5 foot screen length set within the 30-40' depth interval)
 MW-1B Piezometer (with 5 foot screen length set within the 40-50' depth interval)

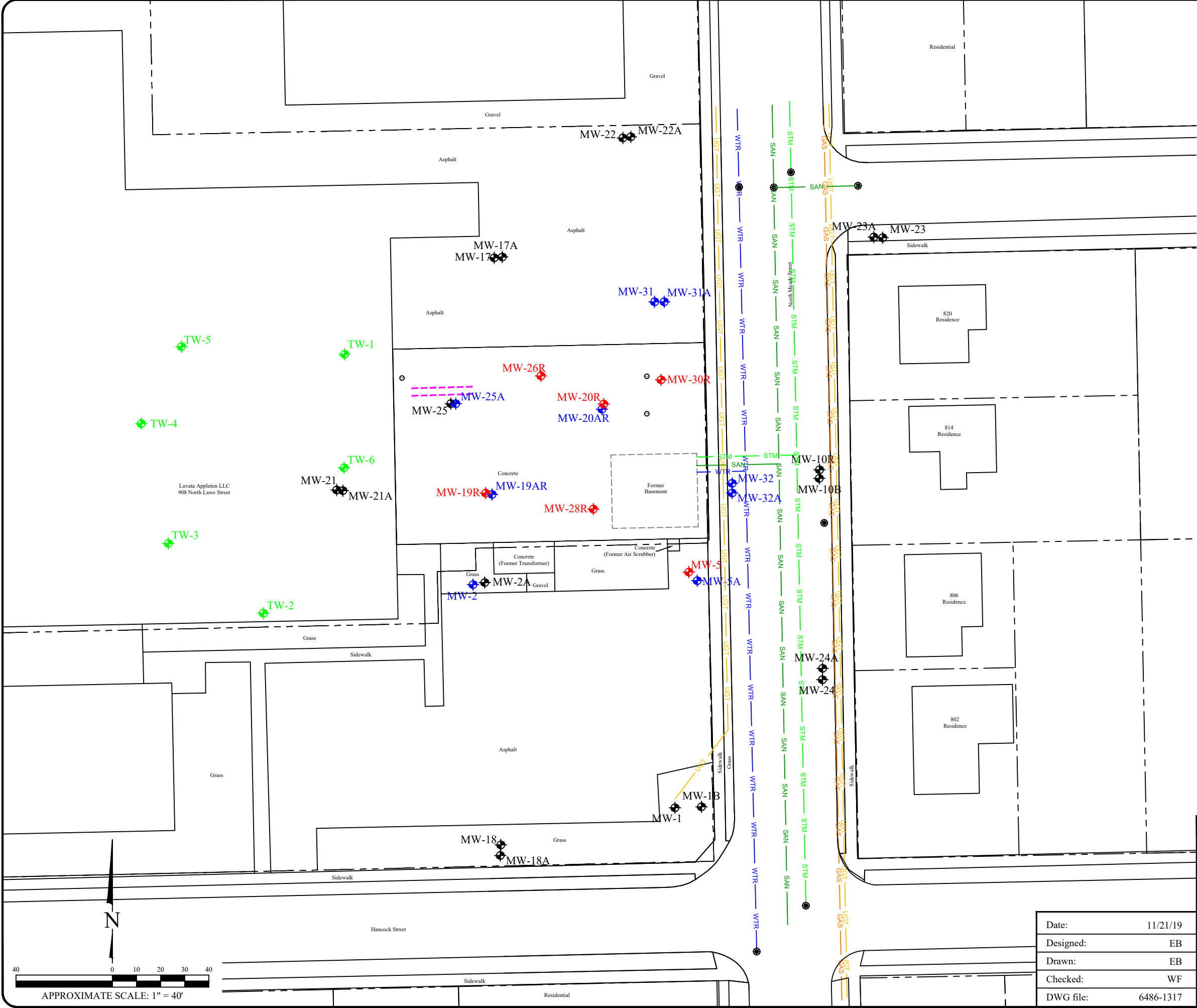


PRE-REMEDIATION LATERAL DISTRIBUTION OF DISSOLVED CHROMIUM IN GROUNDWATER
 Albany International - Luvata Site
 908 North Lawe Street
 Appleton, Wisconsin

Figure	6	Project	6486
Date:	9/21/17	Designed:	EB
		Drawn:	EB
		Checked:	WF
		DWG file:	6486-0461

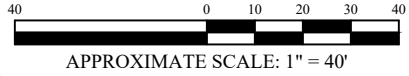
ENVIROforensics
 825 North Capital Avenue • Indianapolis, IN 46204
 EnviroForensics.com

No.	Date	Revision	Approved



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
- Pipe chase
- Floor drain
- Manhole
- TW-1 1-inch diameter groundwater monitoring well for sampling of chlorinated compounds
- Monitoring well designated for remediation performance monitoring
- Monitoring well designated for plume distribution evaluation
- Monitoring well designated to be sampled once pre-closure



APPROXIMATE SCALE: 1" = 40'

POST-REMEDIATION GROUNDWATER MONITORING WELL NETWORK

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

Date:	11/21/19
Designed:	EB
Drawn:	EB
Checked:	WF
DWG file:	6486-1317



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EnviroForensics.com

Figure	19
Project	6486

MW-20/20R Chromium Concentration Trend

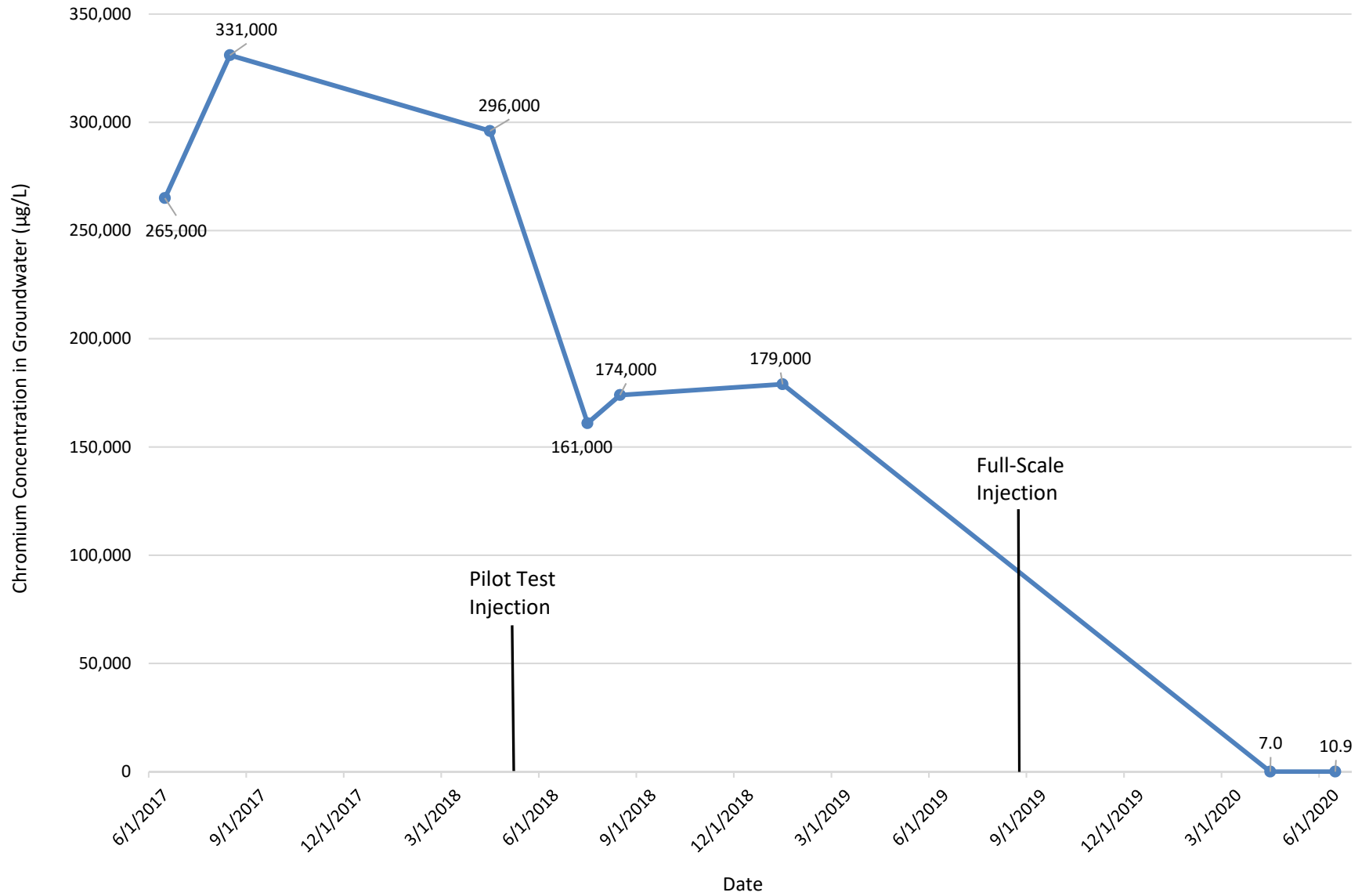


TABLE 2
GROUNDWATER REMEDIATION PERFORMANCE MONITORING DATA
Former Appleton Wire Facility
908 North Lawe Street, Appleton, Wisconsin

Monitoring Well Identification	Screen Interval	Remediaion Status	Sample Date	Dissolved Metals			Inorganic/Physical Parameters						Field Parameters							
				Chromium	Manganese	Iron	Nitrate	Nitrite	Sulfate	Chemical Oxygen Dema	Total Organic Carbon	Dissolved Organic Carb	Temperature	pH	Specific Conductance	Oxidation Reduction Potential	Turbidity	Dissolved Oxygen		
Reporting Units				µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Celsius	S.U.	mS/cm	mV	NTU	mg/L		
NR-140 Preventative Action Limit (PAL)				10	60	150	NE	NE	125	NE	NE	NE								
NR-140 Enforcement Standard (ES)				100	300	300	NE	NE	250	NE	NE	NE								
MW-2	9.7 - 19.7	Pre	6/29/2017	29.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
			8/31/2017	<2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Post Full Scale	7/1/2020	<3.9	14.8	100	NA	NA	NA	NA	NA	NA	NA	17.40	7.74	2.87	41.7	319.5	7.24	
MW-5	10.4 - 20.4	Pre	8/31/2017	256	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		Post Full Scale	4/10/2020	12.7 J	462	13,800	NA	NA	NA	NA	NA	NA	NA	12.65	6.94	2.93	-43	39.0	1.35	
			7/1/2020	<3.9	408	11,500	NA	NA	NA	NA	NA	NA	NA	18.94	7.45	2.53	-58	138.0	3.25	
MW-5A	42 - 47	Post Full Scale	7/1/2020	<3.9	1,050	13,500	NA	NA	NA	NA	NA	NA	16.03	6.88	3.37	-47.6	163.0	2.90		
MW-19/19R	4.8 - 14.8	Pre	4/23/18	18,900	<11.3	<155	NA	NA	NA	NA	NA	NA	16.60	7.53	1.31	177	0.0	10.17		
		Post Pilot Test	7/16/18	172	948	22,400	NA	NA	NA	NA	NA	NA	20.20	6.55	2.35	27	0.0	8.56		
		Post Pilot Test	8/20/18	97.6	1640	88,200	NA	NA	NA	NA	NA	NA	19.66	6.26	2.67	-45	265	10.04		
		Post Pilot Test	1/21/2019*	16.1	608	12,200	NA	NA	NA	NA	NA	NA	18.30	7.52	2.56	-81	373	0.06		
		Post Full Scale	4/10/2020	<3.9	59.4	6,870	NA	NA	NA	NA	NA	NA	NA	18.98	7.04	1.33	-56	118	2.17	
			6/30/2020	<3.9	111.0	8,880	NA	NA	NA	NA	NA	NA	NA	21.90	6.91	1.40	-71.2	176	1.34	
MW-19A/19AR	37.5 - 42.5	Pre	6/29/2017	8.1 J	17.8	29.0 J	<0.38	<0.20	9.7 J	19.9 J	4.0	3.9	18.44	8.04	0.44	4	26.3	9.75		
			4/23/2017	<2.5	26.2	<15.5	NA	NA	NA	NA	NA	NA	NA	15.60	7.95	0.49	27	81.4	10.83	
		Post Full Scale	7/1/2020	<3.9	28.9	130	NA	NA	NA	NA	NA	NA	NA	19.12	8.29	0.67	86.4	371.0	3.48	
MW-20/20R	5.1 - 15.1	Pre	6/28/2017	265,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
			8/31/2017	331,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
			04/23/18	296,000	<11.3	<155	NA	NA	NA	NA	NA	NA	NA	15.73	7.21	2.70	282	50.4	NA	
		Post Pilot Test	07/16/18	161,000	99.1	929 J	NA	NA	NA	NA	NA	NA	NA	20.33	7.10	2.73	78	47.8	8.76	
		Post Pilot Test	08/20/18	174,000	73.1	156	NA	NA	NA	NA	NA	NA	NA	19.93	7.54	2.52	103	0.0	10.05	
		Post Pilot Test	1/21/2019	179,000	37.1	<35.4	NA	NA	NA	NA	NA	NA	NA	17.09	8.20	2.55	126	1.9	5.02	
		Post Full Scale	4/10/2020	7.0	114	9,250	NA	NA	NA	NA	NA	NA	NA	17.90	7.48	1.41	-114	149	1.47	
	6/30/2020	10.9	166	23,000	NA	NA	NA	NA	NA	NA	NA	20.62	6.98	2.25	-102.7	934	1.01			
MW-20A/20AR	29.7 - 34.7	Pre	06/28/17	6.5 J	78.6	2,060	<380	<200	45.4	139	4.9	4.4	15.88	7.83	0.66	-2	0.0	11.67		
			04/23/18	<2.5	24.5	<15.5	NA	NA	NA	NA	NA	NA	NA	15.19	7.95	0.83	247	97.0	10.24	
		Post Full Scale	7/1/2020	<3.9	51.4	430	NA	NA	NA	NA	NA	NA	NA	18.40	9.12	0.81	-3.7	0.1	1.77	
MW-25	3.9 - 13.9	Post Full Scale	7/1/2020	<3.9	139	680	NA	NA	NA	NA	NA	NA	20.22	8.49	1.46	97.9	354.6	4.61		

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

WAYNE FASSBENDER
ENVIROFORENSICS
N16 W 23390 STONERIDGE DR
WAUKESHA WI 53188

Report Date 14-Jul-20

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

Invoice # E38141

Lab Code 5038141A
Sample ID 6486-MW19R
Sample Matrix Water
Sample Date 6/30/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
cis-1,2-Dichloroethene	1.22	ug/l	0.39	1.2	1	8260B		7/9/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		7/9/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/9/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		7/9/2020	CJR	1
SUR - 4-Bromofluorobenzene	122	REC %			1	8260B		7/9/2020	CJR	1
SUR - Dibromofluoromethane	116	REC %			1	8260B		7/9/2020	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		7/9/2020	CJR	1

Lab Code 5038141B
Sample ID 6486-MW20R
Sample Matrix Water
Sample Date 6/30/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Chromium, Dissolved	10.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	23	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	166	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 5038141C
Sample ID 6486-MW19R
Sample Matrix Water
Sample Date 6/30/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	8.88	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	111	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

Lab Code 5038141D
Sample ID 6486-MW28R
Sample Matrix Water
Sample Date 6/30/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	20.8	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	206	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

Lab Code 5038141E
Sample ID 6486-MW30R
Sample Matrix Water
Sample Date 7/1/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	0.08 "J"	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	< 4.2	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

Lab Code 5038141F
Sample ID 6486-MW20AR
Sample Matrix Water
Sample Date 7/1/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	0.43	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	51.4	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 5038141G
Sample ID 6486-MW26R
Sample Matrix Water
Sample Date 7/1/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	0.11	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	39.3	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

Lab Code 5038141H
Sample ID 6486-MW26R
Sample Matrix Water
Sample Date 7/1/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
cis-1,2-Dichloroethene	8.3	ug/l	0.39	1.2	1	8260B		7/9/2020	CJR	1
trans-1,2-Dichloroethene	0.82 "J"	ug/l	0.37	1.2	1	8260B		7/9/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		7/9/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/9/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		7/9/2020	CJR	1
SUR - 4-Bromofluorobenzene	116	REC %			1	8260B		7/9/2020	CJR	1
SUR - Dibromofluoromethane	116	REC %			1	8260B		7/9/2020	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		7/9/2020	CJR	1

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

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
cis-1,2-Dichloroethene	25.9	ug/l	0.39	1.2	1	8260B		7/9/2020	CJR	1
trans-1,2-Dichloroethene	1.58	ug/l	0.37	1.2	1	8260B		7/9/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		7/9/2020	CJR	1
Vinyl Chloride	11.4	ug/l	0.2	0.65	1	8260B		7/9/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		7/9/2020	CJR	1
SUR - 4-Bromofluorobenzene	123	REC %			1	8260B		7/9/2020	CJR	1
SUR - Dibromofluoromethane	118	REC %			1	8260B		7/9/2020	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		7/9/2020	CJR	1

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

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
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

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
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

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
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

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
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

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
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

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
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

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
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

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
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

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

Invoice # E38141

Lab Code 5038141R
Sample ID 6486-MW31
Sample Matrix Water
Sample Date 7/2/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Chromium, Dissolved	< 3.9	ug/L	3.9	12.8	1	200.7		7/8/2020	CWT	1
Iron, Dissolved	26.4	mg/l	0.03	0.1	1	200.7		7/8/2020	CWT	1
Manganese, Dissolved	615	ug/L	4.2	13.8	1	200.7		7/8/2020	CWT	1

Lab Code 5038141S
Sample ID 6486-MW31
Sample Matrix Water
Sample Date 7/2/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
cis-1,2-Dichloroethene	2.92	ug/l	0.39	1.2	1	8260B		7/9/2020	CJR	1
trans-1,2-Dichloroethene	0.57 "J"	ug/l	0.37	1.2	1	8260B		7/9/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		7/9/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/9/2020	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		7/9/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		7/9/2020	CJR	1
SUR - 4-Bromofluorobenzene	118	REC %			1	8260B		7/9/2020	CJR	1
SUR - Dibromofluoromethane	117	REC %			1	8260B		7/9/2020	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code **Comment**

1 Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # _____
Account No. : _____ Quote No.: _____
Project #: 6486
Sampler: (signature) W. Fassbender

Project (Name / Location): Albany Chrome Site, Appleton, WI
Reports To: W. Fassbender Invoice To: Same
Company: EnviroForensics Company: _____
Address: Waukesha, WI Address: _____
City State Zip: _____ City State Zip: _____
Phone: 414-982-3988 Phone: _____
FAX: _____ FAX: _____

Analysis Requested **Other Analysis**

Lab I.D.	Sample I.D.	Collection		Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260) <u>AVOC</u>	8-RCRA METALS	<u>Dissolved Chromium</u>	<u>Dissolved Iron</u>	<u>Dissolved Manganese</u>	PID/FID
		Date	Time																								
<u>S03914</u>	<u>A 6486-MW19R</u>	<u>6/20/20</u>	<u>16:30</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCL</u>													<u>X</u>					
	<u>B 6486-MW20R</u>	<u>11</u>	<u>16:00</u>		<u>X</u>	<u>Y</u>	<u>1</u>	<u>11</u>	<u>HNO3</u>														<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>C 6486-MW19R</u>	<u>11</u>	<u>16:35</u>		<u>X</u>	<u>Y</u>	<u>1</u>	<u>11</u>	<u>11</u>														<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>D 6486-MW20R</u>	<u>11</u>	<u>16:30</u>		<u>X</u>	<u>Y</u>	<u>1</u>	<u>11</u>	<u>11</u>														<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>E 6486-MW30R</u>	<u>7/1/20</u>	<u>09:10</u>		<u>X</u>	<u>Y</u>	<u>1</u>	<u>11</u>	<u>11</u>														<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>F 6486-MW20AR</u>	<u>11</u>	<u>09:40</u>		<u>X</u>	<u>Y</u>	<u>1</u>	<u>11</u>	<u>11</u>														<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>G 6486-MW26R</u>	<u>11</u>	<u>10:30</u>		<u>X</u>	<u>Y</u>	<u>1</u>	<u>11</u>	<u>11</u>														<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>H 11</u>	<u>11</u>	<u>11</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>11</u>	<u>HCL</u>													<u>X</u>					
	<u>I 6486-MW25</u>	<u>11</u>	<u>11:10</u>		<u>X</u>	<u>N</u>	<u>3</u>	<u>11</u>	<u>11</u>													<u>X</u>					
	<u>J 6486-MW25</u>	<u>7/1/20</u>	<u>11</u>		<u>X</u>	<u>Y</u>	<u>1</u>	<u>11</u>	<u>HNO3</u>														<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Use P.O.# 2020-1492

Sample Integrity - To be completed by receiving lab.
Method of Shipment: air
Temp. of Temp. Blank _____ °C On Ice:
Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) [Signature] Time 09:30 Date 7/2/20
Received By: (sign) [Signature] Time 9:30 Date 7/2/20

CHAIN OF STUDY RECORD

Synergy

Environmental Lab, Inc.

Chain # No **3507**

Page 2 of 2

Sample Handling Request

Rush Analysis Date Required _____

(Rushes accepted only with prior authorization)

Normal Turn Around

1990 Prospect Ct. • Appleton, WI 54914

920-830-2455 • FAX 920-733-0631

Lab I.D. # _____
 Account No. : _____ Quote No.: _____
 Project #: 6486
 Sampler: (signature) W. Fossbender

Project (Name / Location): Albany Chrom Site

Reports To: W. Fossbender Invoice To: Game
 Company: Enviro Forensics Company: _____
 Address: Waukesha, WI Address: _____
 City State Zip: _____ City State Zip: _____
 Phone: 414-982-3788 Phone: _____
 FAX: _____ FAX: _____

Analysis Requested

Other Analysis

Lab I.D.	Sample I.D.	Collection		Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260) CVOC	8 PCRA METALS	Other Analysis			PID/ FID					
		Date	Time																					Dissolved Chromium	Dissolved Iron	Dissolved Manganese						
5038141 K	6486-MW19AR	7/1/20	11:35		X	Y	1	GW	HNO ₃															X	X	X						
L	6486-MW5	11	17:20		X	Y	1	11	11															X	X	X						
M	6486-MW5A	11	17:28		X	Y	1	11	11															X	X	X						
N	6486-MW2	11	17:40		X	Y	1	11	11															X	X	X						
O	6486-MW3A	7/2/20	07:25		X	Y	1	11	11															X	X	X						
P	6486-MW3AA	11	07:35		X	Y	1	11	11															X	X	X						
Q	6486-MW31A	11	08:30		X	EN	1	11	11															X	X	X						
R	6486-MW31	11	08:45		X	Y	1	11	11															X	X	X						
S	6486-MW31	12	08:45		X	N	3	11	HCL																							

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample 6486 MW-31A was very turbid and clogged the filter immediately, so this sample will be total unfiltered metals

Sample Integrity - To be completed by receiving lab.

Method of Shipment: _____
 Temp. of Temp. Blank _____ °C On Ice:
 Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) Wynn Fossbender Time 09:30 Date 7/2/20
 Received By: (sign) _____ Time _____ Date _____
 Received in Laboratory By: Nick Ch... Time: 9:30 Date: 7/2/20

Site name: Appleton Wire (Former)

Reporting period from: 01/01/2020

To: 06/30/2020

Days in period: 182

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 06/20)

Page 12 of 29

Section IS-3, Other In Situ Soil Remediation Methods

A. Effectiveness Evaluation

1. Describe the method used to remediate soil at the site:

Accessible areas inside and outside of a warehouse were blended by mixing in zero-valent iron (ZVI) powder to a depth of 6-feet below ground surface. A minimal amount of Portland cement was mixed in to improve compaction for re-paving. The top 30-inches of this treated soil was placed in a partial basement inside of the warehouse where the water table was expected to rise within 3-5 feet of the surface, and provide wet chemical reactions between the hexavalent chromium and the ZVI resulting in the reduction of the hexavalent chromium to trivalent chromium and further production of insoluble chromium-iron hydroxide precipitates. All soil blended areas, including the partial basement area, were topped off with at least 30-inches of clean gravel which was further compacted to provide structural stability to the new pavement and expected warehouse loading. Figures 20 and 21 attached showing soil concentrations prior to and after soil blending remedial actions. TCLP chromium concentrations (not shown on figures) in post-remedial soil samples were all below the laboratory detection limits of 0.1 milligrams per kilogram (refer to attached analytical laboratory results).

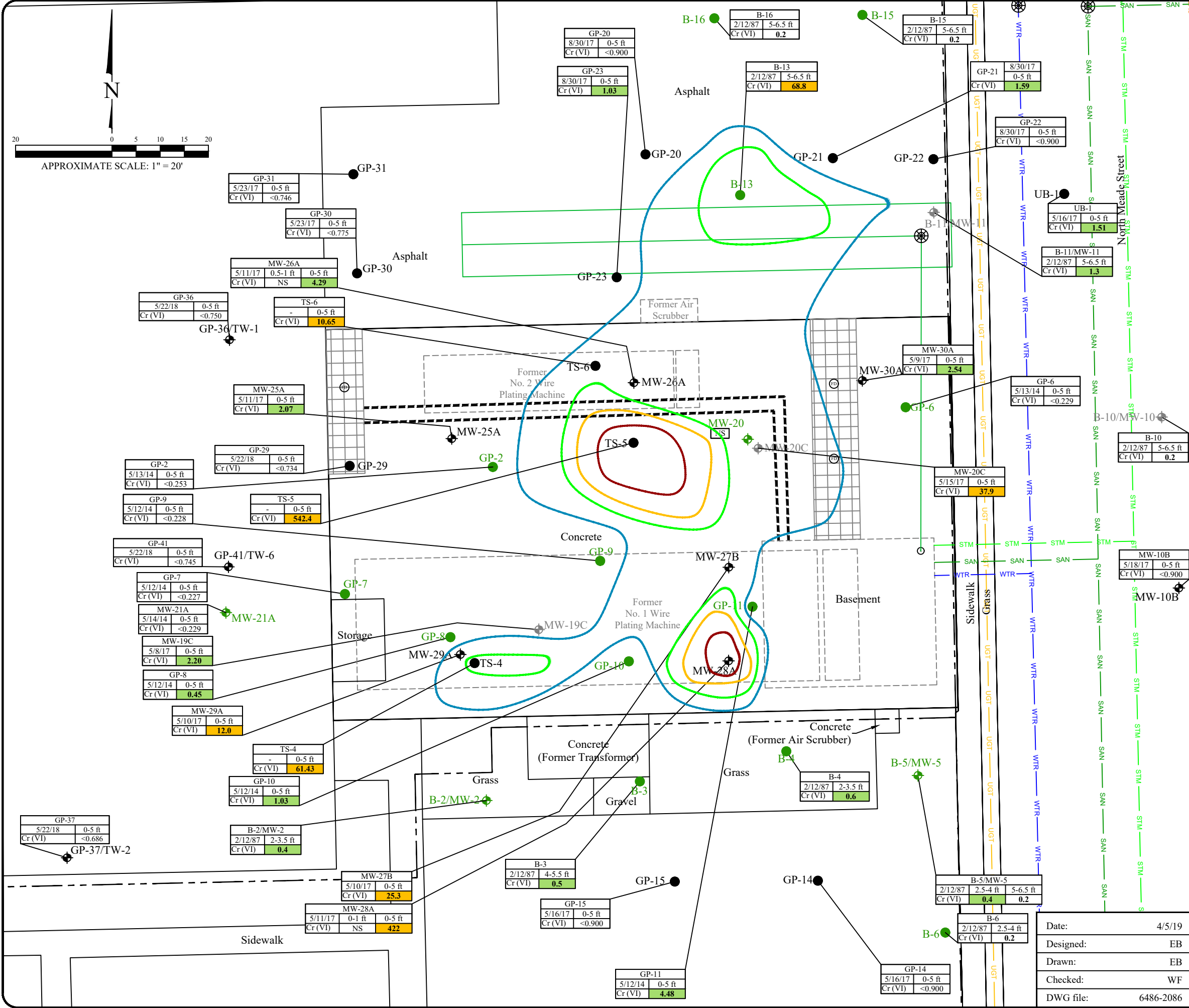
2. List all information required by the DNR for this remediation method for this site:

NR 718 Exemption for management of treated, non-hazardous soil considered within the "Area of Contamination" to be placed in the warehouse partial basement was approved in the "Conditional Approval of the Remedial Action Plan", dated May 29, 2019. Remedial Construction Documentation Report provided, dated January 31, 2020.

B. Additional Attachments

Attach the following to this form:

- Any other attachments required by the DNR for this remediation method.



Legend

- Property boundary
- GAS
- WTR
- SAN
- UGT
- STM
- Pipe chase
- French drain and associated piping
- Sump
- Floor drain
- B-1
- GP-5
- MW-5
- MW-10
- MW-4
- GP-36/TW-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:
- Bold shaded blue values exceed WDNR Soil to Groundwater Residual Contaminant Level
 - Bold shaded green values exceed WDNR Non-Industrial Direct Contact RCL
 - Bold shaded orange values exceed WDNR Industrial Direct Contact RCL
 - Bold values exceed laboratory detection levels
 - Cr(VI) standards and analytical results are reported in milligram per kilogram (mg/kg)
 - Cr(VI) = Hexavalent Chromium
 - RCL = Residual Contaminant Level
 - <BDL = Below laboratory detection limits
 - * = Calculated using EPA Risk-Based Screening Level Calculator
 - Lab LOD = Laboratory limit of detecting
- Pre-remedial Chromium VI concentrations 5 mg/kg
 - Pre-remedial Chromium VI concentrations 50 mg/kg
 - Pre-remedial Chromium VI concentrations 100 mg/kg
 - Pre-remedial Chromium VI concentrations 150 mg/kg

PRE-REMEDIATION DISTRIBUTION OF HEXAVALENT CHROMIUM IN TOP 0-5 FEET OF SOIL

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

Date:	4/5/19
Designed:	EB
Drawn:	EB
Checked:	WF
DWG file:	6486-2086

825 North Capitol Avenue • Indianapolis, IN 46204
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Figure	21
Project	6486

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
- Pipe chase
- French drain and associated piping
- Sump
- Former Sump
- Floor drain
- B-1 Soil boring (STS)
- GP-1 Soil boring (Badger)
- MW-1 Monitoring well (STS)
- MW-18 Monitoring well (McMahon)
- MW-19 Monitoring well (Badger)
- MW-10 Monitoring well abandoned (MW-10 in 1998) and (MW-11 in 1991)
- MW-4 Monitoring well
- GP-36/TW-1 Soil boring/1-inch diameter well
- RS-1 Soil borings in un-blended areas
- BSS-1 Post-remediation location of soil samples with analytical results
- Dairy tile floor

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

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

- Chromium VI concentrations 5 mg/kg
- Chromium VI concentrations 50 mg/kg
- Chromium VI concentrations 100 mg/kg
- Chromium VI concentrations 300 mg/kg
- Dashed boundaries are inferred
- Soil blending areas A, B, and C

POST-REMEDIATION DISTRIBUTION OF HEXAVALENT CHROMIUM IN UNSATURATED SOIL

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

	Date:	4/5/19	Figure
	Designed:	EB	20
	Drawn:	EB	Project
	Checked:	WF	6486
	DWG file:	6486-2014	

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