From: Byers, Harris

**To:** <u>Beggs, Tauren R - DNR</u>

**Subject:** PFAS Scoping Statement for Phase I Construction Area of River Point

**Date:** Friday, September 3, 2021 4:00:11 PM

Attachments: PFAS Scoping Statement.pdf

Importance: High

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#### Tauren:

From our earlier discussion, attached is a draft PFAS scoping statement for the Phase I Construction Area of River Point for your review.

Please let me know if you need additional information to present to the PFAS committee later this month.

Thanks for your continued support on the project!

#### Sincerely,

#### Harris Byers, Ph.D.

Sr. Brownfields Project Manager Contaminant Hydrogeologist / Urban Geochemist

Direct: 414 581-6476 <u>Harris.Byers@stantec.com</u>

Stantec

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#### Stantec Consulting Services Inc.

12075 Corporate Parkway Suite 200, Mequon WI 53092-2649

September 3, 2021

Attention: Tauren Beggs

Remediation and Redevelopment Program Wisconsin Department of Natural Resources 2984 Shawano Ave Green Bay, WI 54313

Dear Mr. Beggs,

Reference: Summary of Prior Site Operations and PFAS Scoping Statement

**Phase I Construction Area** 

River Point District Manitowoc, Wisconsin

BRRTS ID: 02-36-585491 (Open ERP); 02-36-176478 (Closed ERP); 02-36-000408 (Closed

ERP); 07-36-583000 (LGU Exemption/ General Property)

**Stantec Project #: 193708427** 

As a continuance of our phone conversation following your review of the Stantec (2021) *NR 716 Site Investigation Report for River Point District Phase 1 Construction Area*, we have prepared this letter to summarize prior operations in relation to detections of per- and polyfluorinated alkyl substances (PFAS) in groundwater at the Phase I Construction Area of the River Point District in Manitowoc (here in referred to as the SI Project Area). The following summarizes information detailed in numerous prior Stantec (2019, 2020ac, and 2021a-f) reports.

#### SI Project Area Location

As illustrated on Figure 1, the SI Project Area is located in the northeast quarter of the northeast quarter of Section 30, Township 19 North, Range 24 East, in the City of Manitowoc, Manitowoc County, Wisconsin. The Property consists of all or portions of nine contiguous parcels of land totaling approximately 7.7 acres and forming the southeast and east-central portions of a larger 21-acre former railroad/industrial peninsula referred to locally as the "River Point District". The location of the 7.7-acre Property and the larger 21-acre River Point District relative to nearby topography is illustrated on Figure 1. The nine parcels comprising the Property are shown on the orthophotograph provided as Figure 2 and include Parcel IDs 173000, 173003, 173080, 173090, 173100, 173130, 173140, 173160, and 173170. It is important to note the Parcel IDs generally correspond to leases between the historic railroad owner and commercial tenants.

The approximate geographic coordinates of the center of the Property in the Wisconsin Transverse Mercator 1991 coordinate system are (X: 707175, Y: 404904); this was determined using the WDNR Remediation and Redevelopment Sites Map at a scale of 1 to 495 (WDNR, 2020a).

#### **Historic Site Operations**

As described in the Stantec (2019a, 2021a, and 2101f) Phase I ESAs, the Property appears undeveloped in 1835. The historic uses and occupancies of the Phase I Construction Area in the 19<sup>th</sup> century and 20<sup>th</sup> century are depicted on **Figure 3** and **Figure 4**, respectively, and key historic Site tenants are depicted on **Figure 5**. Historic uses of each parcel are summarized below.

#### Central Portion of the Property (Parcel ID 173100)

As depicted on Figure 3, the central portion of the Property operated as the Carl Zander Planing Mill and Factory from ~1870 through 1895, and included a planing mill, a warehouse and lumber storage. The Stantec (2019a) Phase I ESA notes a portion of this parcel was developed for bulk petroleum storage/distribution by the "Clarke Oil Company" (presumably a tenant) between 1912 and 1919. Bulk petroleum storage operations expanded between 1919 and 1927, at which point the operation consisted of eight oil tanks and a pump house (Figure 4). Bulk petroleum storage ceased between 1927 and 1946. The owner, Soo Line Minneapolis St. Paul and Sault St. Marie Railroad Company, leased the parcel to "JF Kerscher Co." on May 22, 1950, who constructed a large warehouse at the Property and utilized the Property for a variety of storage/commercial



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Reference: Summary of Prior Site Operations and PFAS Scoping Statement; Phase I Construction Area;

River Point District; Manitowoc, Wisconsin

uses (Figure 5). The warehouse was demolished in the later portion of the 20<sup>th</sup> century, and the slab was removed in August 2020 (Stantec, 2020b) to facilitate completion of this Site Investigation.

### Southern Portion of the Property (Parcel IDs 173000, 173003, 173160, 173170)

As depicted on Figure 3, the southern portion of the Property operated as the Carl Zander Planing Mill and Factory from ~1870 through 1895 and included an engine room for the north-adjoining planing mill, steam boxes, various areas of lumber storage, and an office along North 10th Street. John Crainik and Co. operated a lumber yard on the southern portion of the Property by ~1870-1895 and the Manitowoc Boat Club constructed several boat houses adjacent to the Manitowoc River by 1887. As adapted from historic Sanborn® Fire Insurance Maps drawn in the late 19th Century, the southern/western portions of the Property were once part of the Manitowoc River (Figure 3). Placement of fill in the late 19th Century on the Property and nearby areas altered the bank of the Manitowoc River to its current location prior to acquisition of the River Point District (and presumably the Property) by the Western Railroad Company on July 22, 1895. The southern portion of the parcel was developed for railroad use by 1895 and remained in railroad use through most of the 20th century (Stantec, 2019a). Key features included multiple spur lines/ferry loading area/sheds/maintenance areas (ex. tool house and wash house identified as "22" and "23", respectively on Figure 4) and depots (ex. freight house and transportation depot identified as "3" and "2", respectively on Figure 4). A building permit was issued to the Soo Line Railroad on 11/24/1980 to raze the former railroad depot, which largely terminated railroad use of the Property, though at least one set of vacant steel rails remained through at least 2004. Additionally, as depicted on Figure 5, "Valders Stone and Marble, Inc." leased the southern portion of the parcel for transloading stone prior to the CDA taking ownership in 2019.

#### Northern Portion of the Property (Parcel IDs 173130, 173080, 173090)

As depicted on Figure 3, the northern portion of the Property was used for lumber storage and occupied by a blacksmith shop by 1893. Per Stantec (2019a), a junk yard/metal scrap yard was constructed on and occupied the majority of the northern portion of the Property by 1900 and appears to have remained in operation through the latter portion of the 20th century. Identifiable features at the facility have included numerous scrap piles, buildings, and railroad spurs (Figure 4), operating under the name "Manitowoc Iron and Metal Company" (Figure 5). Orthophotography indicates the junk yard was asphalt paved between 2000 and 2006.

### Western Portion of the Property (Parcel IDs 173140, 173170)

As depicted on Figure 3, the western portion of the Property was largely vacant in the 19<sup>th</sup> century but included a small storage area from 1883 through 1887. The western portion of the Property was developed for railroad use by 1895, including a railroad roundhouse (identified as "5" on Figure 4) and multiple spurs/tracks. Rail operations remained at on the western portion of the Property until the early 2000s when the remaining steel rails were removed.

#### **Prior and Current Property Ownership**

Ownership of the SI Project Area in the 19<sup>th</sup> Century likely corresponded to occupants/users, which included the "Carl Zander Planing Mill", "John Crainik and Co.", and "The Manitowoc Boat Club" in addition to other unknown property owners. Historic records indicate the Property was transferred from the Manitowoc Terminal Company to the Manitowoc and Western Railroad Company on July 22, 1895, which is consistent with railroad development in the late 19th century. Assessor records suggest the Property was later transferred to the Soo Line Railroad Company and ultimately transferred to Wisconsin Central, Ltd. sometime during the latter half of the 20th century. Railroad use of the Property ceased in the 1980s and the Property was decommissioned in the 2000s. The Community Development of the City of Manitowoc (City) acquired the Property on April 12, 2019 for the purpose of blight elimination and subsequently received a Local Government Unit (LGU) Environmental Liability Exemption from WDNR on March 18, 2019 with a BRRTS activity number of 07-36-583000. Approximately 1.6 acres of the SI Project Area were sold to River North, LLC on August 27, 2021 for redevelopment as a multi-family residential apartment building.



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Reference: Summary of Prior Site Operations and PFAS Scoping Statement; Phase I Construction Area;

River Point District; Manitowoc, Wisconsin

### **Identified PFAS Impacts to Groundwater**

PFAS were an emerging class of constituents of concern when the City began their pre-acquisition due diligence activities in the summer of 2018. Based on prior industrial operations, PFAS were not identified as potential constituents of concern in the Stantec (2019) Phase I ESA. However, given other ongoing brownfield projects in Manitowoc (e.g. Former Mirro Facility located at 1512 Washington Street in Manitowoc; Open BRRTS Case No. 02-36-545108), the City decided to voluntarily include PFAS in the list of groundwater constituents evaluated in November 2018 and further evaluated in April 2019, as summarized in the Stantec (2020a) Phase II ESA.

A continued evaluation of PFAS to further delineate impacts was included in the Stantec (2021a) Site Investigation Workplan. A cumulative summary of detected PFAS compounds was included in the Stantec (2021e) Site Investigation Report. As presented in the Stantec (2021e) Site Investigation Report, the potentiometric surface of shallow groundwater measured in March 21 is illustrated on Figure 6 and the combined concentrations of perfluorooctane sulfonate + perfluorooctane sulfonamide + perfluorooctaneide + n-ethyl perfluorooctane sulfonamido ethanol + n-ethyl perfluorooctane sulfonamido are tabulated on Figure 7.

As illustrated on Figure 7, the greatest concentrations of PFAS in groundwater were consistently noted in the most hydraulically upgradient monitoring wells (e.g. MW-75, MW-84, and MW-89) with PFAS concentrations decreasing along the potentiometric surface of groundwater. This spatial distribution in concentration suggests the source(s) of PFAS in groundwater are likely offsite and the detection of PFAS in groundwater at the Property is a result of impacted groundwater migrating onto the property.

Although the detected PFAS compounds in groundwater in the SI Project Area are greater than the proposed groundwater quality criteria, the magnitude of the detections are two to three orders of magnitude less than at other properties where PFAS compounds were used in an industrial capacity (e.g. Former Mirro Facility located at 1512 Washington Street in Manitowoc; Open BRRTS Case No. 02-36-545108).

#### **Evaluation of PFAS Uses Onsite**

**Prior Industrial Uses of PFAS.** PFAS source evaluation relating to historical operations at the Property is based upon guidance provided in the RR-01 publication (WDNR, 2019) and also guidance provided by the Interstate Technology Regulatory Council (ITRC, 2020). Based on dates of operation and prior occupants/uses identified in the Stantec (2019a, 2021a, and 2101f) Phase I ESAs and summarized herein, we have not identified evidence that PFAS were formerly used at the Property.

**Fire Response Actions.** As noted in the Stantec (2019) Phase I ESA, the fire department used a former structure adjacent to the SI Project Area for training activities. Records indicate the training did NOT include the use of Aqueous Film Forming Foam (AFFF), which is supported by the general absence of perfluorooctane sulfonate in groundwater at the River Point District.

#### **PFAS Scoping Statement**

Given the absence of records indicating PFAS were used onsite and the magnitude and gradient of detected PFAS compounds in groundwater, the "source" of detected PFAS compounds in groundwater does not appear to be located in the SI Project Area. Therefore, PFAS are not considered constituents of concern for the ch. NR 716 Site Investigation on this portion of the River Point District. Stantec requests a written response from the WDNR which concurs with these findings.

Regards,

STANTEC CONSULTING SERVICES INC

Harris L. Byers, Ph.D.

Sr. Brownfields Project Manager Email: Harris.Byers@Stantec.com

STANTEC CONSULTING SERVICES INC.

Richard J. Binder, P.G., CPG

QA/QC Manager

Rick.Binder@stantec.com



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Reference: Summary of Prior Site Operations and PFAS Scoping Statement; Phase I Construction Area;

River Point District; Manitowoc, Wisconsin

Attachments: Figures

#### **REFERENCES**

ITRC, 2020 (September), "Per- and Polyfluoroalkyl Substances (PFAS)." https://pfas-1.itrcweb.org/

Stantec, 2019, 10th Street Railroad Property, Manitowoc, Wisconsin, Phase I Environmental Site Assessment, March 21, 2019.

Stantec, 2020a, Phase II Environmental Site Assessment, Riverpoint District; Manitowoc, Wisconsin, March 23, 2020.

Stantec, 2020b, Phase II Environmental Site Assessment, River Point District; Manitowoc, Wisconsin, 200 North 10th Street (Site 1), August 24, 2020.

Stantec, 2020c, Construction Documentation Report, 200 N 10th Street, Manitowoc, Wisconsin, November 4, 2020.

Stantec, 2021a, Site Investigation Workplan, Phase 1 Construction Area of the River Point District; Manitowoc, Wisconsin, 200 North 10th Street (Site 1), 1101 Buffalo Street (Site 2), January 13, 2021.

Stantec, 2021b, River Point District Lot 1 & Lot 2 Phase I Environmental Site Assessment, March 10, 2021.

Stantec, 2021c, Analysis of Brownfield Cleanup Alternatives, River Point District; Manitowoc, Wisconsin, May 4, 2021.

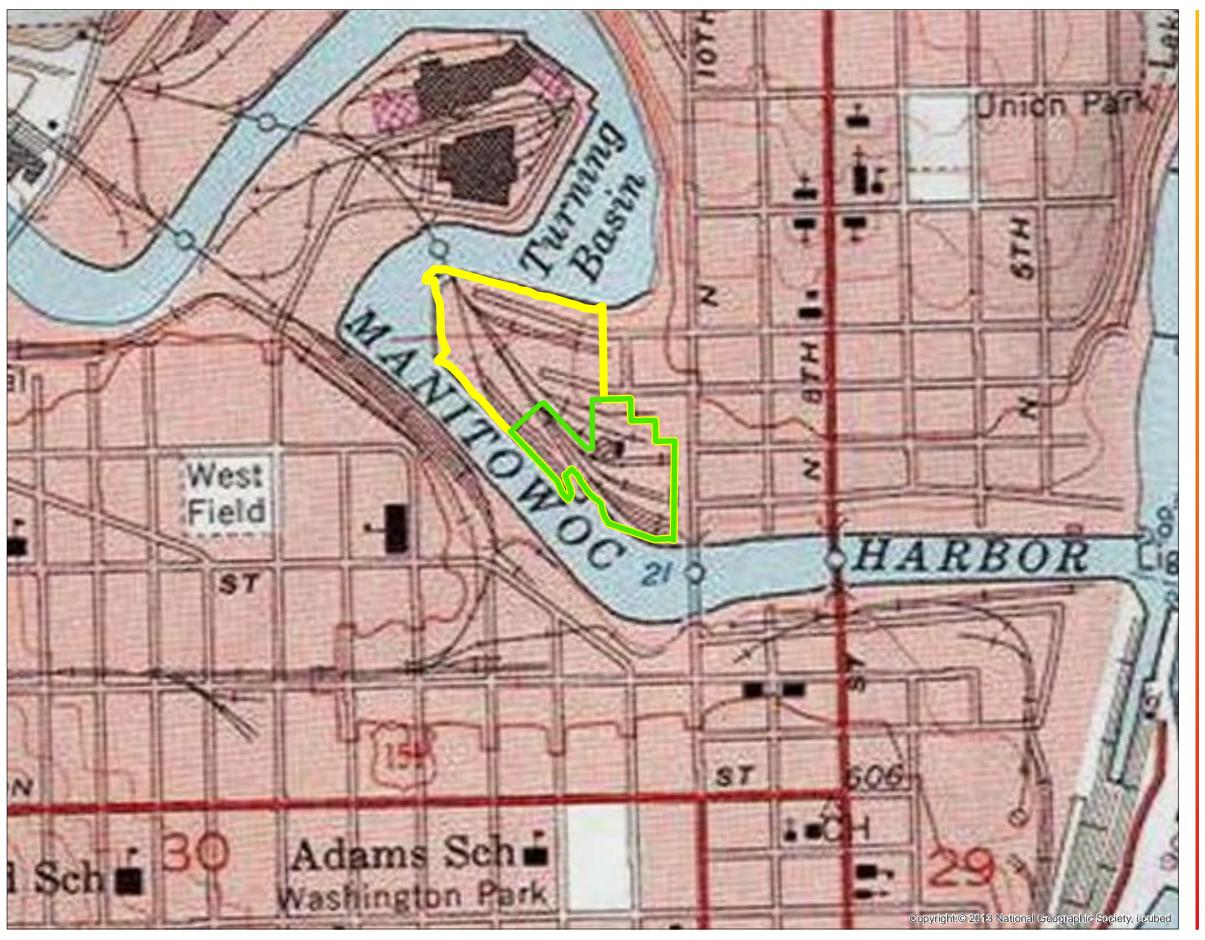
Stantec, 2021d, Decision Memorandum, River Point District; Manitowoc, Wisconsin, May 19, 2021.

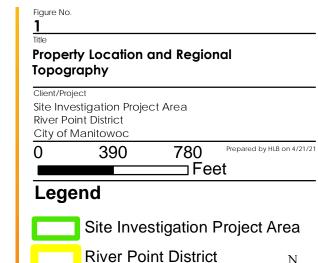
Stantec, 2021e, NR716 Site Investigation Report, River Point District Phase 1 Construction Area; Manitowoc, Wisconsin, July 19, 2021.

Stantec, 2021f, Phase I ESA, 1000 River Point Drive Manitowoc, Wisconsin, August 25, 2021.



# **FIGURES**



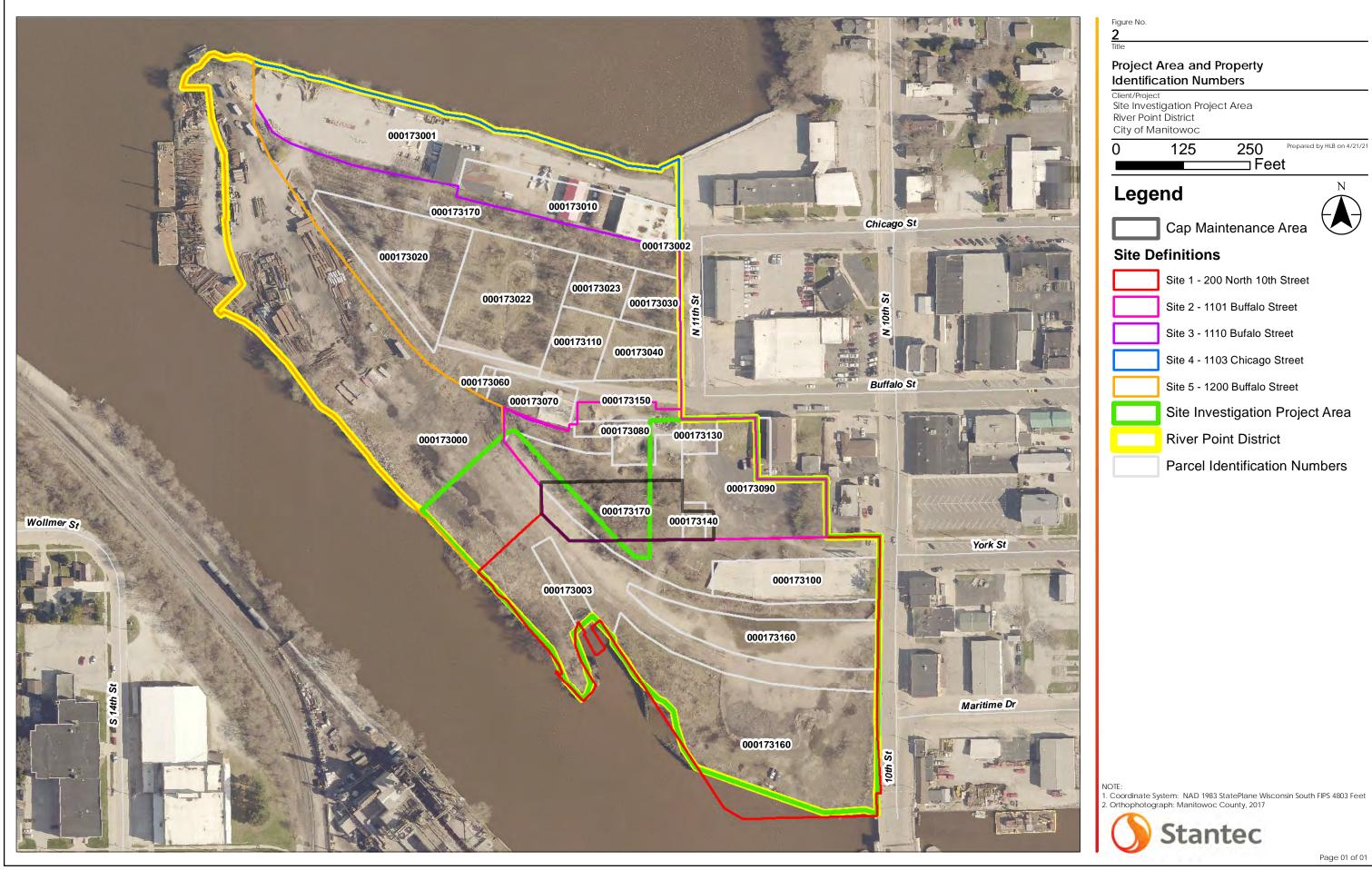


- 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803
- Feet

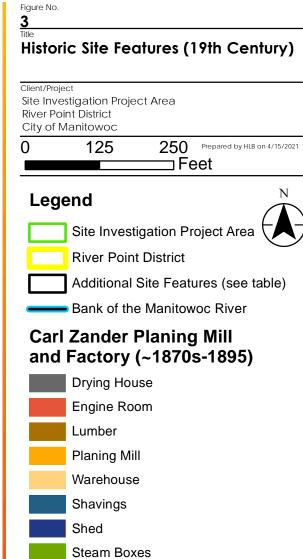
  2. Historic Site features illustrated on this figure were digitized from multiple historic maps/sources, including City Assessor files, WDNR files, and Sanborn (R) Fire Insurance Maps. These features are provided for illustration purposes only: Stantec makes no warranty as to the accuracy of these features.

  3. Orthophotograph: Manitowoc County, 2017





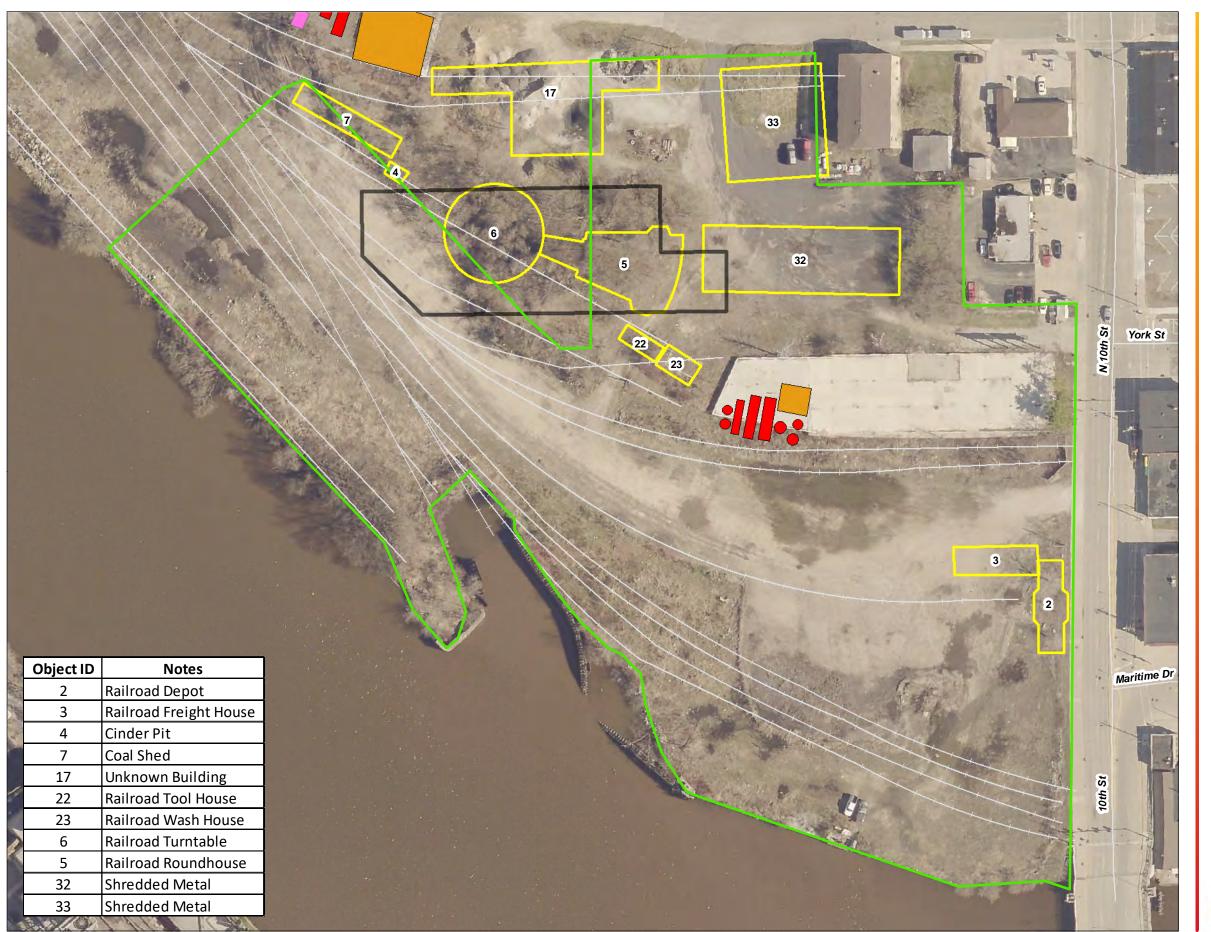


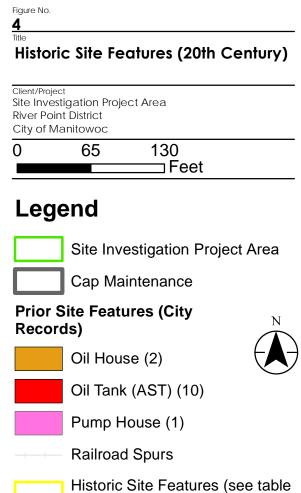


- 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803
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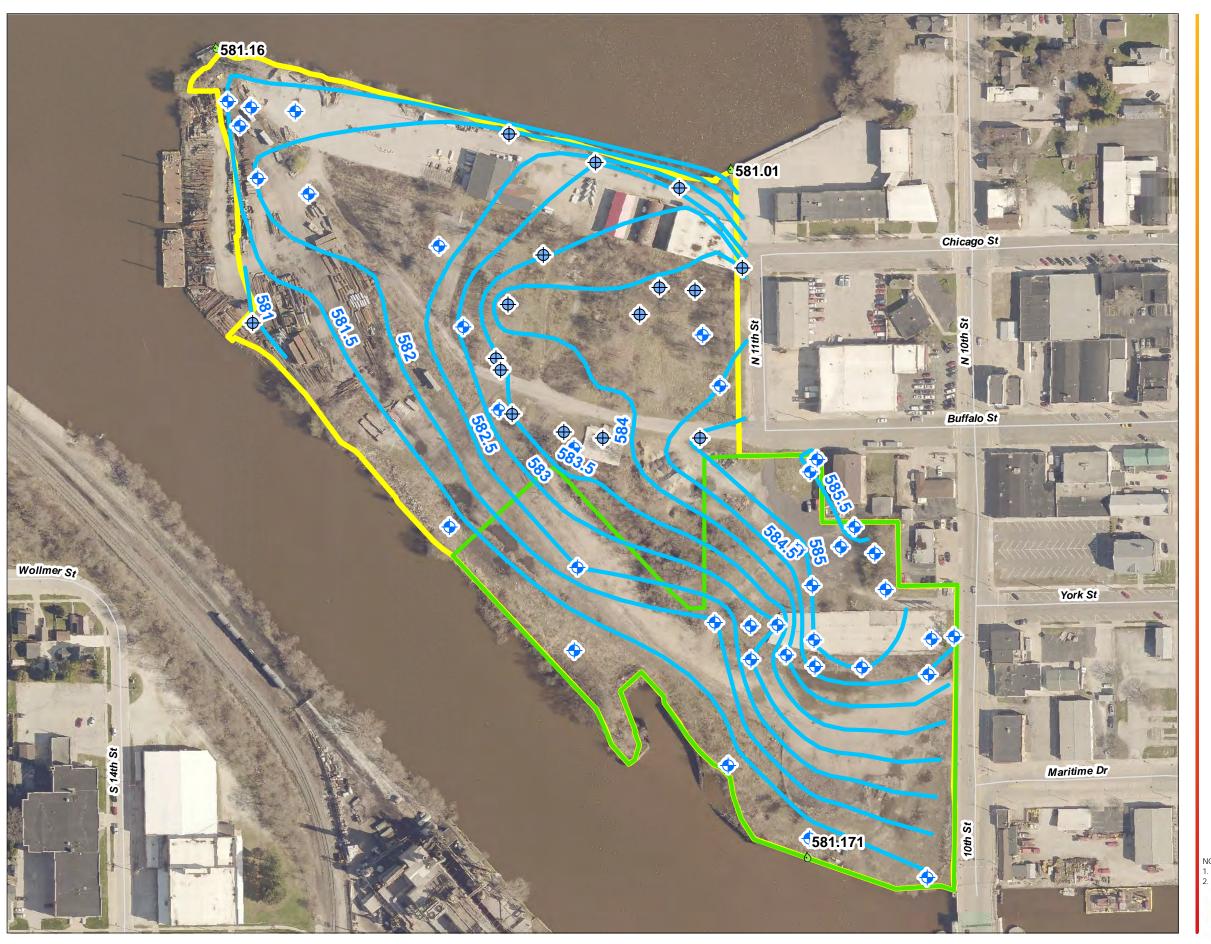




5 Title				
Prior S	iite Tenants			
River P	oject estigation Proje oint District Manitowoc	ct Area		
0	125	250 Fe	Prepared by HLB on 4/21/21	
Leg	end		N N	
	Cap Maintenance Area			
	Prior Tenants			
	Site Investigation Project Area			
	River Point District			

NOTE: 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet 2. Orthophotograph: Manitowoc County, 2017







Groundwater Elevation at the River Point District (March 2021)

Client/Project
Site Investigation Project Area
River Point District
City of Manitowoc

125

250 Prepared by HLB on 4/21/21 ☐ Feet

## Legend



River Point District



Site Investigation Project Area

Groundwater Elevation (ft amsl)

## **Monitoring Locations**

- Monitoring Well (NR 141) (38)
- Staff Gage (3)
- Temporary Monitoring Well (16)

NOTE: 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet 2. Orthophotograph: Manitowoc County, 2017



