State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
3911 Fish Hatchery Road
Fitchburg WI 53711-5397

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

June 22, 2021

John Deere Horicon Works
Attn: Steve Johnson
300 N Vine St
Horicon, WI 53032
(Via electronic mail)

KEEP THIS LEGAL DOCUMENT WITH YOUR PROPERTY RECORDS

Subject: Case Closure with Continuing Obligations
John Deere – Lake St Bridge @ Rock River, 300 N Vine St, Horicon, Wisconsin
DNR BRRTS Activity #: 02-14-543152

Dear Mr Johnson:

The Wisconsin Department of Natural Resources (DNR) is pleased to inform you that the John Deere – Lake St Bridge @ Rock River case identified above met the requirements of Wisconsin Administrative (Wis. Admin.) Code chs. NR 725-727 for case closure with continuing obligations (COs). COs are legal requirements to address potential exposure to remaining contamination. No further investigation or remediation is required at this time for the reported hazardous substance discharge and/or environmental pollution.

However, you, future property owners and occupants of the property must comply with the COs as explained in this letter, which may include maintaining certain features and notifying the DNR and obtaining approval before taking specific actions. You must provide this letter and all enclosures to anyone who purchases, rents or leases this property from you.

This case closure decision is issued under Wis. Admin. Code chs. NR 725-727 and is based on information received by the DNR to date. The DNR reviewed the case closure request for compliance with state laws and standards and determined the case closure request met the notification requirements of Wis. Admin. Code ch. NR 725, the response action goals of Wis. Admin. Code § NR 726.05(4), and the case closure criteria of Wis. Admin. Code §§ NR 726.05, 726.09 and 726.11, and Wis. Admin. Code ch. NR 140.

The Lake St Bridge @ Rock River site comprises a small area within the 53-acre John Deere facility. The facility has been used for industrial manufacturing for over 100 years and is currently used in the production of parts for the John Deere Turf Care and Recreational Vehicle Division. The Lake St Bridge @ Rock River area of concern is located on the west side of the facility property, northeast of where the Rock River and East Lake Street intersect. The site is located between the Rock River and Building R of the facility. This general area of the facility has had a long history of petroleum storage and use, most recently associated with above ground storage tanks in the 1970s.

The Lake St Bridge @ Rock River site was investigated for a discharge of hazardous substances or environmental pollution after a petroleum sheen was observed on the Rock River in 2001. Case closure is granted for the petroleum contaminants analyzed during the site investigation, as documented in the case file. The site investigation and/or remedial action addressed soil, groundwater, and vapor. The remedial action consisted of free

product collection and soil excavation. Contamination remains in soil at locations associated with structural impediments, as documented in the site file.

The case closure decision and COs required were based on the site being used for industrial purposes. The site is currently zoned as G3-Manufacturing, which meets industrial use under Wis. Admin. Code § NR 720.05 (5) for application of residual contaminant levels in soil.

SUMMARY OF CONTINUING OBLIGATIONS

The following COs are applied at the site:

Address (Horicon, WI)	**COs Applied**	**Date of Maintenance Plan(s)**
300 N Vine St (Source Property)	• Residual Soil Contamination • Cover • Structural Impediment	4/9/2019

CLOSURE CONDITIONS

Closure conditions are legally required conditions which include both COs and other requirements for case closure (Wis. Stat. § 292.12 (2)). Under Wis. Stat. § 292.12 (5), you, any subsequent property owners and occupants of the property must comply with the closure conditions as explained in this letter. The property owner must notify occupants for any condition specified in this letter under Wis. Admin. Code §§ NR 726.15 (1) (b) and NR 727.05 (2). If an occupant is responsible for maintenance of any closure condition specified in this letter, you and any subsequent property owner must include the condition in the lease agreement under Wis. Admin. Code § NR 727.05 (3) and provide the maintenance plan to any occupant that is responsible.

DNR staff may conduct periodic pre-arranged inspections to ensure that the conditions included in this letter and the maintenance plan dated April 9, 2019 are met (Wis. Stat. § 292.11 (8)). If these requirements are not followed, the DNR may take enforcement action under Wis. Stat. ch. 292 to ensure compliance with the closure conditions.

SOIL

Continuing Obligations to Address Soil Contamination

Residual Soil Contamination (Wis. Admin. Code chs. NR 718, NR 500-599, and § NR 726.15 (2) (b), and Wis. Stat. ch. 289)

Soil contamination remains at locations associated with structural impediments as indicated on the enclosed map (Fig. B.2.b., Residual Soil Contamination). If soil in the location(s) shown on the map is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil. If sampling confirms that contamination is present, the property owner at the time of excavation will need to determine if the material is considered solid waste and ensure that any storage, treatment or disposal complies with applicable standards and rules. Contaminated soil may be managed under Wis. Admin. Code ch. NR 718 with prior DNR approval.

Cover (Wis. Stat. § 292.12 (2) (a), Wis. Admin. Code §§ NR 724.13 (1) and (2), NR 726.15 (2) (d) and/or (e), NR 727.07 (1))

The paved ground surface and structures in the area, as shown on the enclosed map (Fig. 2, Attachment D, Residual Soil Contamination & Cap/Cover) shall be maintained in compliance with the enclosed maintenance plan, dated April 9, 2019. The purpose of the cover is to minimize the infiltration of water through contaminated soil. The indicated structures are also considered structural impediments; additional investigation and response requirements apply as described in the section of this letter titled Structural Impediments.

The cover approved for this closure was designed to be protective for commercial or industrial land uses. Before using the property for residential purposes and before taking an action, the property owner must notify the DNR to determine if additional response actions are warranted. A cover intended for industrial land uses or certain types of commercial land uses may not be protective if the property changes to a residential use. This may include, but is not limited to, single or multiple family residences, a school, day care, senior center, hospital or similar settings. In addition, a cover designed for multi-family residential housing use may not be appropriate for use at a single-family residence.

To modify or replace a cover, the property owner must submit a request to the DNR under Wis. Admin. Code ch. NR 727. The DNR approval must be obtained before implementation. The replacement or modified cover must be a structure of similar permeability or be protective of the revised use of the property until contaminant levels no longer exceed Wis. Admin. Code ch. NR 720 groundwater pathway residual contaminant levels (RCLs).

Structural Impediment (Wis. Stat. § 292.12 (2) (b), Wis. Admin. Code §§ NR 726.15 (2) (f), NR 727.07 (2))
The structures in the area, as shown on the enclosed map (Fig. 2, Attachment D, Residual Soil Contamination & Cap/Cover) made complete site investigation and/or remediation of the contamination on this property impracticable. Upon removal of the structural impediment, the property owner shall investigate the degree and extent of petroleum contamination obstructed by the structural impediment. If contamination is found at that time, the property owner shall remediate the contamination in accordance with Wis. Admin. Code chs. NR 700–799.

GROUNDWATER

Continuing Obligations to Address Groundwater Contamination and/or Monitoring Wells

General Wastewater Permits for Construction-related Dewatering Activities (Wis. Admin. Code ch. NR 200)
The DNR's Water Quality Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits, or to the ground surface. This includes discharges from construction-related dewatering activities, including utility work and building construction.

If the property owner or any other person plans to conduct such activities, that person must contact the Water Quality Program and, if necessary, apply for the required discharge permit. If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for discharge of *Contaminated Groundwater from Remedial Action Operations* may be needed. If water collecting in a pit/trench that requires dewatering is expected to be free of pollutants other than suspended solids, oil and grease, a general permit for pit/trench *Dewatering Operations* may be needed.

OTHER CLOSURE REQUIREMENTS

Maintenance Plan and Inspection Log (Wis. Admin. Code § NR 726.11 (2), NR 726.15 (1) (d), NR 727.05 (1) (b) 3., Wis. Admin. Code § NR 716.14 (2) for monitoring wells)
The property owner is required to comply with the enclosed maintenance plan dated April 9, 2019 for the cover, to conduct inspections annually, and to use the inspection log (DNR Form 4400-305) to document the required inspections. The maintenance plan and inspection log are to be kept up-to-date and on-site. The property owner shall submit the inspection log to the DNR only upon request.

Limitations on Activities, Prior Approval Needed (Wis. Admin. Code §§ NR 724.13 (2) (h), NR 726.15 (2))
Certain activities are limited at closed sites to ensure that the cover will function as intended to prevent contact with any remaining contamination.

The limitations on activities are identified in the enclosed maintenance plan. The following activities are prohibited on any portion of this property where the cover is required, without prior DNR approval:

- removal of the existing barrier
- replacement with another barrier
- excavating or grading of the land surface
- filling on the paved areas
- construction or placement of a building or other structure
- changing the use or occupancy of the Site to a residential exposure setting, which may include certain uses, such as single or multiple-family residences, a school, day care, senior center, hospital, or similar residential exposure settings

Pre-Approval Required for Well Construction (Wis. Admin. Code § NR 812.09 (4) (w))
DNR approval is required before well construction or reconstruction for all sites identified as having residual contamination and/or COs. This requirement applies to private drinking water wells and high capacity wells. To obtain approval, the property owner is required to complete and submit Form 3300-254, Continuing Obligations/Residual Contamination Well Approval Application, to the DNR Drinking and Groundwater program's regional water supply specialist. A well driller can help complete this form. The form can be obtained online at dnr.wi.gov, search "3300-254." Additional casing may be necessary to help prevent contamination of the well.

DNR NOTIFICATION REQUIREMENTS

DNR Notification (Wis. Admin. Code §§ NR 727.07, NR 726.15 (2))
The property owner is required to notify the DNR at least 45 days before taking the following actions. The DNR may require additional investigation and/or cleanup actions if necessary, to be protective of human health and the environment.

- Before removing a cover or any portion of a cover
- Before removing a structural impediment
- Before changing the use of the property to a non-industrial use

Send written notifications to the DNR using the RR Program Submittal Portal at dnr.wi.gov, search "RR submittal portal" (https://dnr.wi.gov/topic/Brownfields/Submittal.html). Questions on using this portal can be directed to the contact below or to the environmental program associate (EPA) for the regional DNR office. Visit dnr.wi.gov, search "RR contacts" and select the EPA tab (https://dnr.wi.gov/topic/Brownfields/Contact.html).

CLOSING

Site and case closure-related information can be found online in the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW); go to dnr.wi.gov and search "BOTW." Use the BRRTS ID # found at the top of this letter. The site can also be found on the map view, Remediation and Redevelopment Sites Map (RRSM) by searching "RRSM."

Please be aware that the case may be reopened under Wis. Admin. Code § NR 727.13 if additional information indicates that contamination on or from the site poses a threat, or for a lack of compliance with a CO or closure requirement. Compliance with the maintenance plan is considered when evaluating the reopening criteria.

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything stated in this letter, please contact DNR Project Manager, Trevor Bannister at (608) 347-0058, or at TrevorA.Bannister@wisconsin.gov. If the project manager is not available, contact information can be found at dnr.wi.gov, search "RR contacts."

Sincerely,

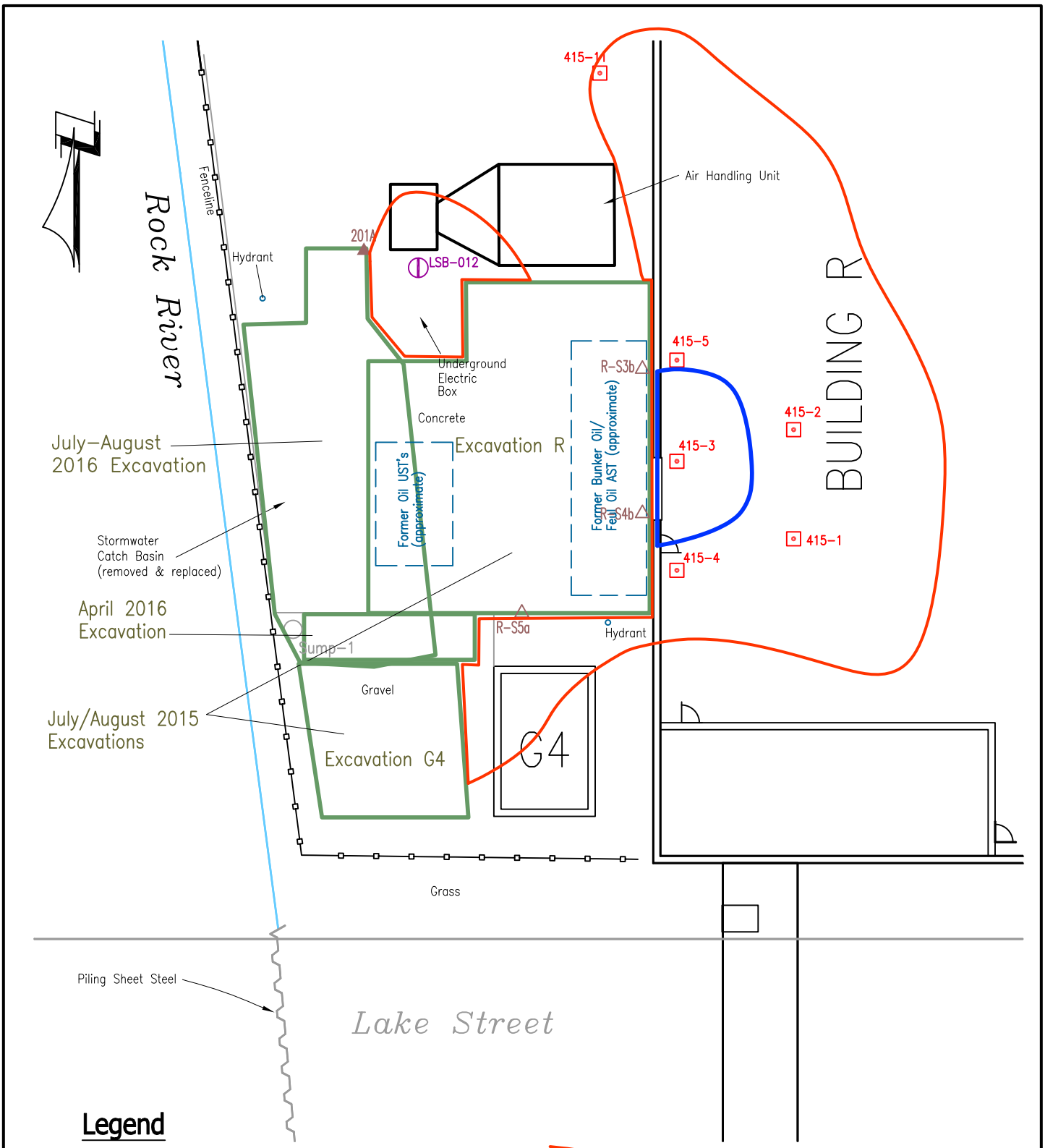
Steven L. Martin, P.G.
South Central Region, Team Supervisor
Remediation & Redevelopment Program

Enclosures:
- Fig. B.2.b, Residual Soil Contamination
- Fig. 2, Attachment D, Residual Soil Contamination & Cap/Cover
- Attachment D, Maintenance Plan, April 9, 2019

cc: Jim Lindeman, Hyde Environmental

Online Resources:
These DNR fact sheets can be obtained by visiting the DNR website at "dnr.wi.gov" and searching DNR publication number (RR-xxx). For information on general permits, search using "wastewater general permits."

- RR-671 – "Using Natural Attenuation to Clean Up Contaminated Groundwater: What Landowners Should Know"
- RR-819 – "Continuing Obligations for Environmental Protection"
- RR-973 – "Environmental Contamination and Your Real Estate"
- RR-987 – "Post-Closure Modifications: Changes to Property Conditions after a State-Approved Cleanup"
- RR-690 – "Guidance for Electronic Submittals for the Remediation and Redevelopment Program"



Legend

- Boring Location (GAS 2001)
- Boring Location (MSA 2013)
- HYDE Soil Sample (Jul/Aug 2015)
- HYDE Soil Sample (2016)
- Boring Location (2009)
- HYDE 2014 Boring
- HYDE 2015 Boring
- DRO Impacts
- PVOC Ismpacts

0 20'
SCALE

HYDE ENVIRONMENTAL, INC.

B.2.b. RESIDUAL SOIL CONTAMINATION

JOHN DEERE HORICON WORKS – LAKE STREET BRIDGE
Horicon, Wisconsin

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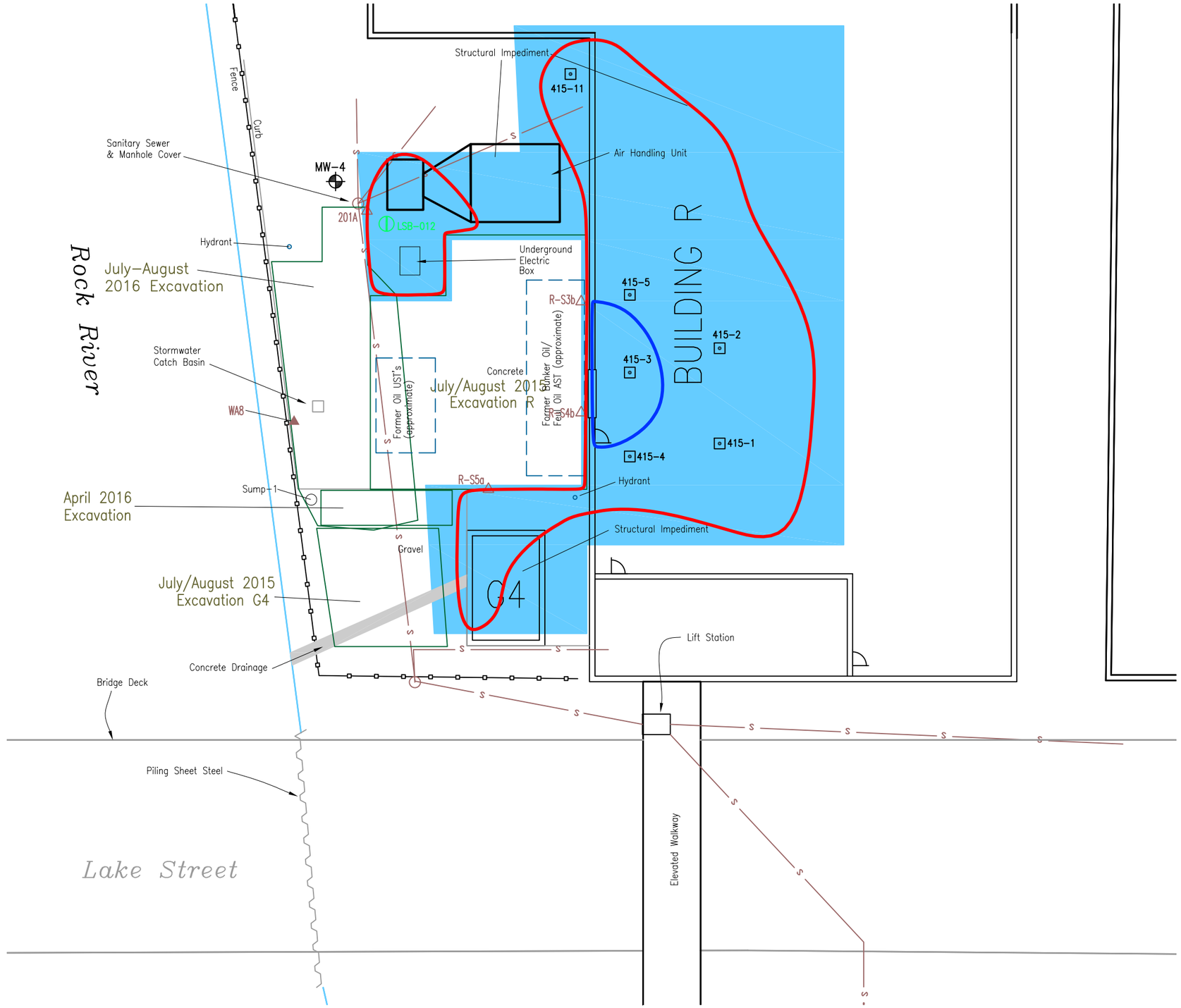


Legend

- HYDE Soil Sample (2016)
- HYDE Soil Sample (July/Ausust 2016)
- HYDE Soil Boring (Nov 2014)
- 415-11 HYDE Soil Boring (Apr 2015)
- DRO Impacts
- PVOC Impacts
- Cover/Cap

HYDE ENVIRONMENTAL, INC.

Figure 2

RESIDUAL SOIL CONTAMINATION & COVER/CAP

JOHN DEERE – LAKE STREET BRIDGE @ ROCK RIVER
Horicon, Wisconsin

C:\Pwd\j-j1002_gb-Horicon Lake St Bridge\Horicon Site LSB.dwg Modified: Sep 26, 2016 2:24pm Updated by: ttg

ATTACHMENT D

MAINTENANCE PLANS AND PHOTOS

Attachment D: Maintenance Plan(s) and Photographs

TABLE OF CONTENTS

D.1. Descriptions of Maintenance Actions – Cover Maintenance Plan attached

D.2. Location Map(s)/Figures/Tables
Figure 1 – Site Location Map
Figure 2 – Residual Soil Contamination and Cover/Caps
Table A.3. – Residual Soil Contamination Table

D.3. Photographs

D.4. Inspection Log

ATTACHMENT D: MAINTENANCE PLAN AND PHOTOGRAPHS

4-9-2019

BRRTS: 02-14-543152

Property Located at:

300 N. Vine Street, Horicon, WI 53032

THAT PT ORIG PLAT,WINTERS ADD,SE NW,NE NW,&NW NE SEC 6 LYG E OF RIVER,N OF LAKE ST, W OF VINE ST,N OF LYNN ST & W OF HUBBARD ST EX THAT PT LYG E OF FOLL LN:COM SW COR V457 P579 N 120',E 20.5',N 177',E 27.64',N 19',E 119.36 FT,N 143 E 92',N 222.06',E 199.01',N 122.68', NE 60', NE 127.5' E 174.85',NELY 352.63',NW 163.55',NE TO N LN NW NE.EX E 134'OF S136.5' BLK13 ORIG,EX V681 P61 ALSO N1/2 OF VAC ALLEY (RUNNING EAST TO WEST) AS DESC IN DOC# 1111057

Parcel # 236-1116-0621-000 (see Figure 1)

Introduction

This document is the Cover Maintenance Plan for building-covered and concrete-paved areas at the above-referenced property in accordance with the requirements of s. NR 724.13 (2), Wis. Adm. Code. The maintenance activities relate to the existing building-covered areas or concrete-paved areas which address or occupy the area over the contaminated soil and groundwater plume.

More site-specific information about this Site may be found in:

- The case file, located at the WDNR Service Center, 3911 Fish Hatchery Road, South Central Regional Office.
- At http://dnr.wi.gov/topic/Brownfields/wrrd.html, which includes:
  - BRRTS on the Web (DNR's internet-based database of contaminated sites) for the link to a PDF for site-specific information at the time of closure and on continuing obligations;
  - RR Sites Map for a map view of the Site; and,
- The DNR project manager for the Site – Mr. Trevor Bannister.

D.1. Descriptions:

Inaccessible impacted soil for former leaking heating oil tanks at the Site remain beneath Building R, Building G4 (pump house), beneath the air filtration/air handling unit and beneath concrete pavement (**Figure 2**). Remaining impacts were identified in samples:

LSB-012D, MW-4 and 201a, located adjacent to the air filtration/air handling unit and a sanitary sewer manhole. Additional impacted soil could not be removed in this area due to the proximity of the structures. This area is covered by approximately 8 inches of concrete.

WA8, located beneath a concrete retaining wall adjacent to the Rock River. This sample was collected from soil located beneath the retaining wall and beneath the water table. Additional soil in this area could not be removed due to the proximity of the river and hazard of collapsing the retaining wall and river bank.

R-S5a, located adjacent to Building G4. Additional soil could not be removed in this area due to the proximity of Building G4. Impacts are covered by Building G4 and adjacent concrete pavement.

415-1, 415-2, 415-3, 415-5, 415-11, R-S3b, and R-S4b located beneath and directly adjacent to Building R.

Additional soil in these areas could not be removed due to the presence of Building R and in the case of sample 415-11 the presence of the air filtration/air handling unit. These areas are covered by Building R and the concrete floor of the building and adjacent concrete located outside of Building R.

Description of Contamination

Residual soil impacts consist of petroleum volatile organic compounds (PVOCs) and polycyclic aromatic hydrocarbons (PAHs). Soil contaminates remaining at the site exceed the NR 720 soil to groundwater RCL. Due to the shallow groundwater in the area, most remaining impacts are located below the water table. Samples R-S5a and 201A are the only samples showing residual soil impacts above the water table. Residual PVOC compounds exceeding the NR720 Soil to Groundwater RCLs consist of Trimethylbenzenes in samples 415-3, 415-5 and R-S4b; Benzene in samples 415-4, 415-11 and R-S4b; and Methyl tert-butyl ether (MTBE) in samples 415-2, 415-4, 415-5 and 415-11. Residual PAH compounds exceeding the NR720 Soil to Groundwater RCLs consist of Benzo(a)pyrene in samples 415-3, 415-4 and 415-5, Benzo(b)fluoranthene in samples 415-3 and 415-5, Chrysene in samples 415-1, 415-4, 415-5, R-S3b, R-S4b, R-S5a, MW-4, WA8 and 201A, and Naphthalene in samples LSB-012D, 415-3, 415-4, 415-5 and R-S4b. (**Table A.3.**).

Description of the Cover to be Maintained

The residual soil impacts are present beneath covered areas consisting of two buildings (Building R and Building G4) with concrete floors, an area beneath the air filtration/air handling unit and approximately 8 inches of concrete-paved areas beneath the air handling unit and adjacent to these buildings. The Site is located at the John Deere Horicon Works Facility, north of E. Lake Street, where E. Lake Street and the Rock River intersect, as shown on the attached **Figure 1**. Photographs are included as **Attachment D.3**.

Cover Purpose

Buildings and concrete-paved areas (**Figure 2**) are located over the remaining impacted soil to serve as a barrier to prevent infiltration to minimize future soil-to-groundwater contaminant migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current use of the property, Manufacturing/Industrial, the barrier should function as intended, unless disturbed.

Annual Inspection

Building R, Building G4 and concrete areas overlying soil impacts, as depicted in **Figure 2**, will be inspected once a year, normally in the spring, after all snow and ice is gone. It will be inspected for deterioration, cracks, and other potential problems that can cause additional infiltration into/or exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed, and where infiltration from the surface will not be effectively minimized, will be documented.

A log of the inspections, and any repairs, will be maintained by the property owner. The WDNR Form 4400-305, Continuing Obligations Inspection and Maintenance Log is included as **Attachment D.4.** The log will include recommendations for necessary repair of any areas where underlying soils are exposed and/or where infiltration from the surface to groundwater will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept at the Site, and should be available for submittal or inspection by WDNR representatives upon their request.

Maintenance Activities

If problems are noted during the annual inspections, or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing, or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The owner must also sample any soil that is excavated from the Site prior to disposal, to ascertain if contamination remains. The soil must be treated, stored, and disposed of by the owner in accordance with applicable local, state, and federal law.

In the event that the buildings or concrete overlying the soil impacts is removed or replaced; the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan, unless indicated otherwise by the WDNR or its successor.

The property owner, in order to maintain the integrity of the buildings or concrete, will maintain a copy of this Maintenance Plan at the Site, and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Prohibition of Activities and Notification of WDNR Prior to Actions Affecting a Cover/Barrier

The following activities are prohibited on any portion of the Site where pavement is required, as shown on the attached map (**Figure 2**), unless prior written approval has been obtained from the WDNR: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on the paved areas; 5) construction or placement of a building or other structure; 6) changing the use or occupancy of the Site to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

If removal, replacement, or other changes to the cover are considered, the property owner will contact WDNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with s. NR 727.07, Wis. Adm. Code.

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of WDNR.

Contact Information
April 2019

Site Owner and Operator: Steve Johnson (on behalf of John Deere)
300 N. Vine Street, Horicon, WI 53032
(920) 485-4411

Signature: Steven N Johnson

Property Owner: John Deere Horicon Works
300 N. Vine Street, Horicon, WI 53032
(920) 485-4411

Consultant: James Lindemann, Hyde Environmental, Inc.
W175N11163 Stonewood Drive, Ste 110, Germantown, WI 53022
(262) 250-1226

DNR: Trevor Bannister
3911 Fish Hatchery Road, Fitchburg, WI 53711
(608) 275-3490

D.2 Location Map(s)

All pertinent Maps/Figures/Tables are attached (Figure 1, Figure 2 and Table A.3.).

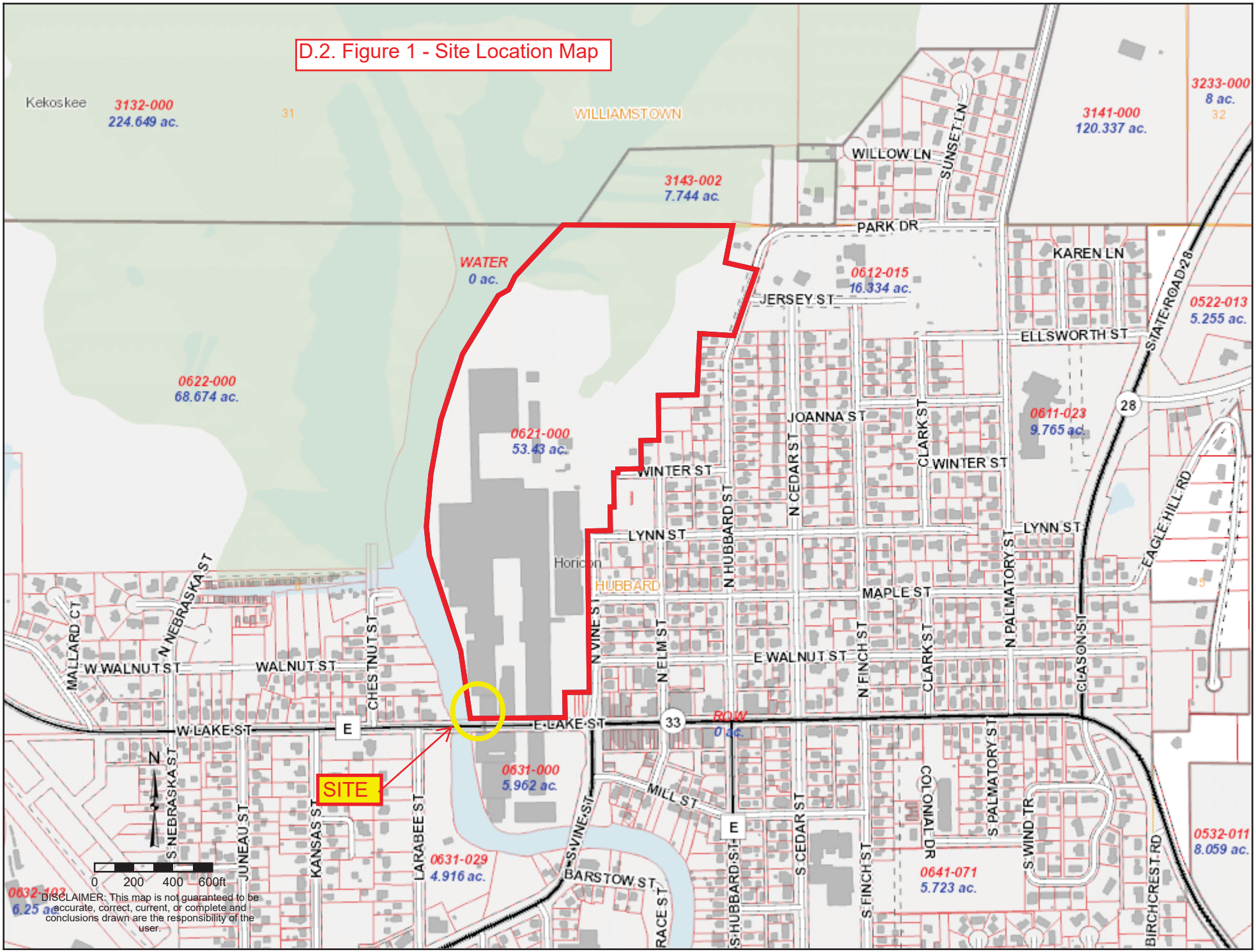
D. 3 Photographs of Cover/Barrier

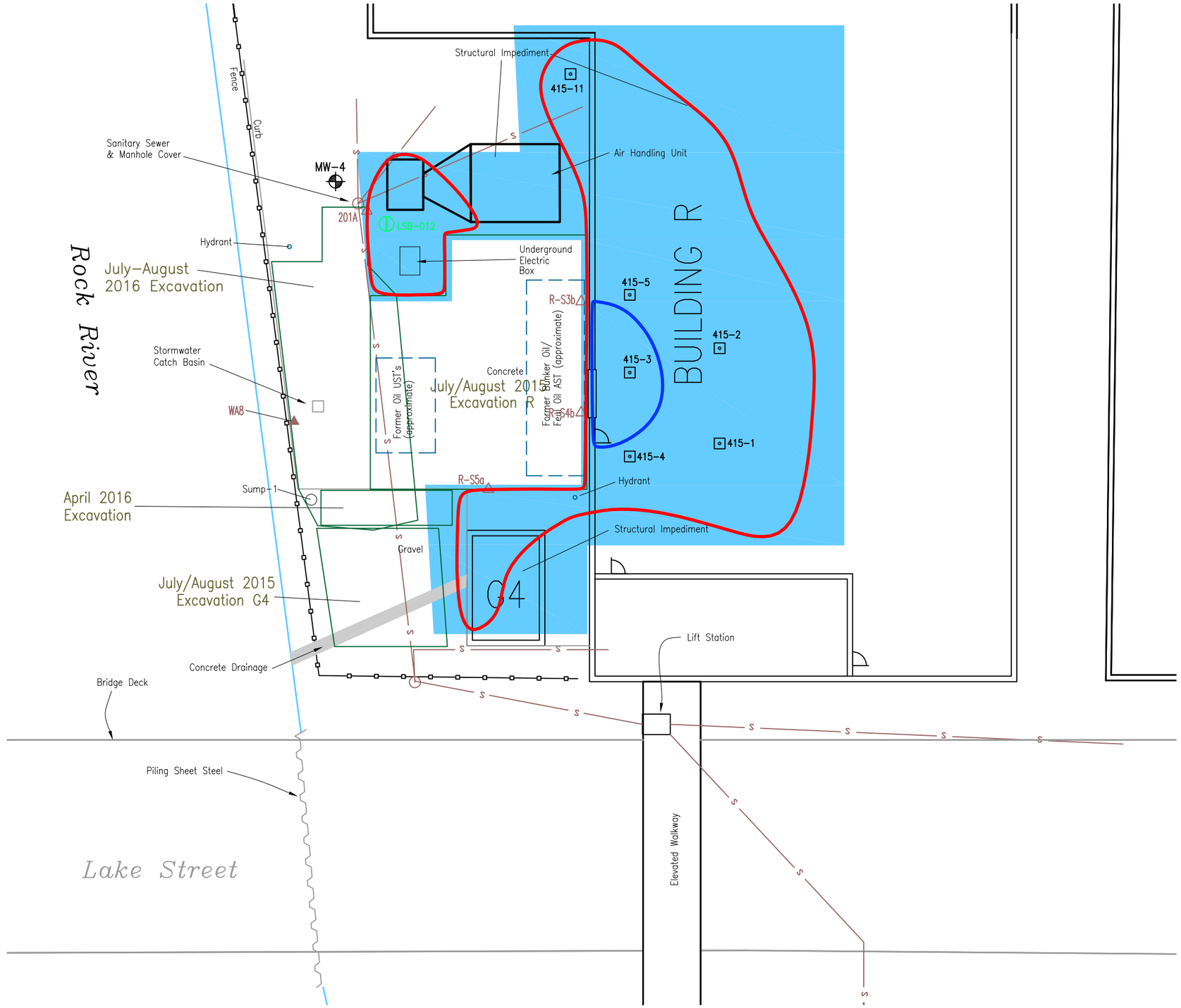
Site photographs are attached. Also, please see Figure 2, an aerial photograph taken in 2018.

D.4 Continuing Obligations Inspection and Maintenance Log

Form 4400-305 is attached.

D.2. Figure 1 - Site Location Map





Legend

- HYDE Soil Sample (2016)
- HYDE Soil Sample (July/Ausust 2016)
- HYDE Soil Boring (Nov 2014)
- 415-11 HYDE Soil Boring (Apr 2015)
- DRO Impacts
- PVOC Impacts
- Cover/Cap

HYDE ENVIRONMENTAL, INC.

Figure 2

RESIDUAL SOIL CONTAMINATION & COVER/CAP

JOHN DEERE – LAKE STREET BRIDGE @ ROCK RIVER
Horicon, Wisconsin

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A.3. RESIDUAL SOIL CONTAMINATION TABLE

John Deere Horicon Works - Lake Street Bridge at Rock River

Horicon, Wisconsin

Sampling Date:	*NR 720 Industrial Direct Contact RCL*	*NR 720 Soil to Ground-Water RCL*	11/11/14	4/3/15	4/3/15	4/3/15	4/3/15	4/3/15	4/3/15	7/30/15	7/31/15	7/31/15	10/7/15	7/28/16	8/8/16
Sample:			**LSB-012 D***	**415-1***	**415-2***	**415-3***	**415-4***	**415-5***	**415-11***	**R-S3b***	**R-S4b***	**R-S5a**	**MW-4**	**WA8'**	**201A**
Sample Depth:			**(7.5-10')**	**(8.11')**	**(6-11')**	**(6-11')**	**(8-10'}**	**(9-10')**	**(9-10')**	**(6')**	**(6')**	**(3')**	**(6-8')**	**8"**	**(4')**
Saturated (S) or Unsaturated (U)			**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**S**	**U**	**S**	**S**	**U**
DRO (mg/kg)	--	--	7220	4100	4800	1400	7400	2800	220	380	21000	48	NA	27	86
Semivolatiles (mg/kg)															
Acenapththene	45200	--	6.29	<0.024	<0.072	<0.093	0.730	0.720	0.130	0.210	7.70	0.041	<0.0067	<0.0067	<0.0066
Acenaphthylene	--	--	<2.04	<0.018	<0.053	<0.068	<0.054	0.460	<0.0052	<0.026	<0.300	0.025	0.032	0.025	0.210
Anthracene	100000	196.95	<2.36	0.120	<0.067	<0.087	0.640	1.40	<0.0066	<0.033	4.90	0.160	0.026	0.057	0.081
Benzo (a) anthracene	20.8	--	<1.58	0.150	<0.054	<0.070	0.950	3.50	0.022	0.250	0.690	0.290	0.130	0.140	0.610
Benzo (a) pyrene	2.11	0.47	<1.63	0.120	<0.077	**1.700**	**0.650**	**3.00**	<0.0076	<0.038	<0.440	0.300	0.190	0.180	**0.820**
Benzo (b) fluoranthene	21.1	0.4781	<2.28	0.130	<0.086	**1.500**	<0.088	**4.60**	<0.0085	0.340	<0.490	0.370	0.300	0.230	**1.200**
Benzo (g,h,j) perylene	--	--	<1.74	<0.043	<0.130	1.000	<0.130	<0.170	<0.013	0.120	<0.730	0.190	0.100	0.083	0.360
Benzo (k) fluoranthene	211	--	<2.52	0.110	<0.120	0.770	<0.120	2.00	<0.012	<0.007	<0.670	<0.053	0.120	0.093	0.420
Chrysene	2110	0.1442	<2.11	**0.220**	<0.110	<0.140	**1.30**	**3.40**	0.030	**0.360**	**1.30**	***0.280***	**0.170**	**0.180**	**0.750**
Dibenz(a,h)anthracene	2.11	--	<1.67	<0.026	<0.077	<0.100	<0.079	<0.100	<0.0076	<0.038	<0.440	0.130	0.03	0.027	0.110
Fluoranthene	30100	--	<2.28	0.140	0.096	1.500	0.290 J	6.00	0.021	0.530	1.90	0.640	0.320	0.290	0.960
Fluorene	30100	14.83	6.82	0.078	<0.056	<0.073	1.20	1.60	0.210	<0.027	12.0	0.070	0.0097	0.039	0.019
Indeno (1,2,3-cd) pyrene	21.1	--	<1.73	<0.035	<0.100	0.560	<0.110	0.970	<0.010	0.340	<0.690	0.280	0.100	0.085	0.420
1-Methylnaphthalene	72.7	--	53.2	0.320	0.270	2.800	11.0	5.10	0.360	0.620	110	0.220	0.011	0.035	0.015
2-Methylnaphthalene	3010	--	6.51	0.410	0.370	4.200	13.0	3.80	0.220	0.800	32.0	0.170	<0.0068	0.073	0.022
Naphthalene	24.1	0.6582	**2.69**	0.240	0.130	**3.100**	**1.40**	**0.66**	0.100	0.340	**4.50**	0.150	0.025	0.037	0.031
Phenanthrene	--	--	14.7	0.260	0.160	2.200	3.80	6.20	0.160	0.440	38.0	0.620	0.200	0.310	0.280
Pyrene	22600	54.55	<2.28	0.270	0.150	3.700	1.70	5.20	0.046	0.500	1.70	0.500	0.330	0.380	0.880
PVOCs (mg/kg)															
1,2,4-Trimethylbenzene	219	1.3821 combined	NA	0.490	<0.064	**1.400**	0.400	**0.980**	0.27	0.130	**3.40**	<0.019	1.000	0.033	<0.030
1,3,5-Trimethylbenzene	182		NA	<0.110	<0.064	**0.930**	0.200	**0.610**	0.076	0.031	**2.10**	<0.019	0.240	<0.027	<0.030
Benzene	7.07	0.0051	NA	<0.130	<0.077	<0.033	**0.056**	<0.047	**0.060**	<0.019	**0.140**	<0.022	0.077	<0.033	<0.036
Ethylbenzene	35.4	1.57	NA	<0.140	<0.082	0.047	0.140	<0.050	<0.024	<0.020	0.390	<0.023	0.240	<0.034	<0.038
Methyl tert-butyl ether	282	0.027	NA	<0.089	**0.130**	<0.022	**0.099**	**0.042**	**0.11**	<0.013	<0.027	<0.015	<0.023	<0.022	<0.024
Toluene	818	1.1072	NA	<0.130	<0.073	0.079	0.230	<0.045	0.068	<0.018	0.320	0.05	<0.023	<0.031	<0.034
Xylenes, Total	260	3.96	NA	<0.220	<0.130	1.000	2.10	1.10	0.070	<0.031	1.200	0.053	0.660	<0.054	<0.060

Notes:
REMOVED column results indicate sampling locations removed by later excavation
Bold value exceeds soil-to-groundwater RCL
Underlined value exceeds Industrial Direct Contact RCL; sample collected less than 4 feet deep.
-- = No standard
NA = Not analyzed

D.3. PHOTOGRAPHS

John Deere Horicon Works – Lake Street Bridge at Rock River
300 W. Vine Street
Horicon, WI

Photo #1 Concrete barrier, Building R and air filter/air handling unit attached to Building R, viewing north.

Photo #2 Concrete barrier, Building G4 (pump house) and Building R, viewing southeast.

D.3. PHOTOGRAPHS

John Deere Horicon Works – Lake Street Bridge at Rock River
300 W. Vine Street
Horicon, WI

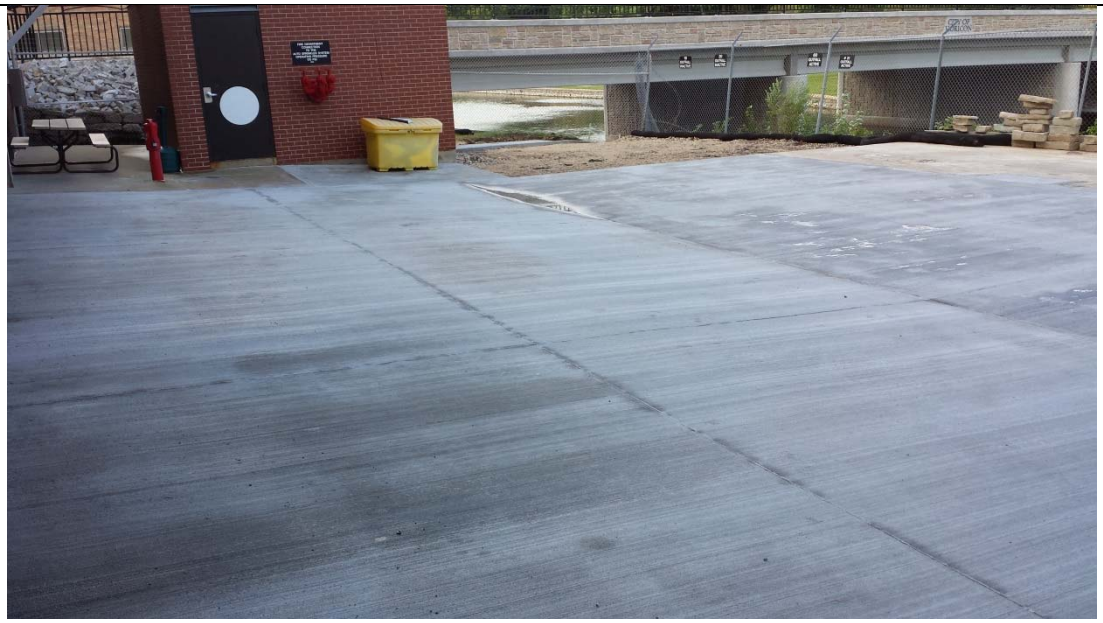

Photo #3 Concrete barrier and Building G4 (pump house), viewing southwest.

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

D.4.

Continuing Obligations Inspection and Maintenance Log

Form 4400-305 (2/14)

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at http://dnr.wi.gov/botw/SetUpBasicSearchForm.do, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name	BRRTS No.
John Deere - Lake St Bridge @ Rock River	02-14-543152

Inspections are required to be conducted (see closure approval letter):

- (●) annually
- ( ) semi-annually
- ( ) other -- specify _____

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			( ) Y ( ) N	( ) Y ( ) N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			( ) Y ( ) N	( ) Y ( ) N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			( ) Y ( ) N	( ) Y ( ) N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			( ) Y ( ) N	( ) Y ( ) N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			( ) Y ( ) N	( ) Y ( ) N
		☐ monitoring well ☐ cover/barrier ☐ vapor mitigation system ☐ other:			( ) Y ( ) N	( ) Y ( ) N

02-14-543152
BRRTS No.

John Deere - Lake St Bridge @ Rock River
Activity (Site) Name

Continuing Obligations Inspection and Maintenance Log

Form 4400-305 (2/14)

{Click to Add/Edit Image}

Date added:

Title:

{Click to Add/Edit Image}

Date added:

Title: