



**US Army Corps  
of Engineers**  
St Paul District

**APPLICANT:**

Northern Natural Gas  
c/o Kelly Henry  
1120 Centre Pointe Dr,  
Suite 400  
Mendota Heights, MN  
55120

# Public Notice

**ISSUED:** April 24, 2024

**EXPIRES:** May 9, 2024

**REFER TO:** MVP-2024-00330-DDP

**SECTION: 404 - Clean Water Act**

1. APPLICATION FOR PERMIT TO discharge dredged and fill material into wetlands for the purpose of conducting line verification digs (FID's) and maintenance on the Rib Lake (WIB22301) and Carlton-Iron River (M432B) natural gas pipelines.

2. SPECIFIC INFORMATION

AGENT

Merjent  
c/o Lindsay Tekler and Monica Entinger  
1 SE Main St Unit 300  
Minneapolis, MN 55414

PROJECT LOCATION: The overall project would encompass 31 line verification dig locations along WIB22301 and two line verification dig locations along M432B as shown on the table below and figures attached.

Site/Group #	Line	County	Section, Township & Range	Total Temporary Wetland Disturbance (ac.)
1	WIB22301	Ashland	T45N, R2W, S9, 10, 15, 16, and 17	8.58
2	WIB22301	Ashland	T45N, R2W, S20	1.38
3	WIB22301	Ashland	T45N, R2W, S29	0.35
4	WIB22301	Ashland	T45N, R2W, S29	0.07
5	WIB22301	Ashland	T45N, R2W, S32	0.47
9	WIB22301	Ashland	T44N, R2W, S17	0.77
10	WIB22301	Ashland	T44N, R2W, S20 and 21	1.22
11	WIB22301	Ashland	T44N, R2W, S28 and 33	2.49
12	WIB22301	Ashland	T44N, R2W, S34 and T43N, R2W, S3	0.72
13	WIB22301	Ashland	T43N, R2W, S3	1.84
14	WIB22301	Ashland	T43N, R2W, S10 and 15	2.52
16	WIB22301	Ashland	T43N, R2W, S23	0.34
17	WIB22301	Ashland	T43N, R2W, S26	1.93
18	WIB22301	Ashland	T43N, R2W, S26 and 35	1.16
19	WIB22301	Ashland	T43N, R2W, S35	0.51
20	WIB22301	Ashland	T42N, R2W, S1	0.12
21	WIB22301	Ashland	T42N, R2W, S12	0.18

26	WIB22301	Ashland	T42N, R1W, S19	0.02
28	WIB22301	Ashland	T42N, R1W, S30	0.93
30	WIB22301	Ashland	T41N, R1W, S5	1.40
31	WIB22301	Ashland	T41N, R1W, S9	0.18
32	WIB22301	Ashland	T41N, R1W, S9	0.43
33	WIB22301	Ashland	T41N, R1W, S16	0.10
34	WIB22301	Ashland	T41N, R1W, S16	0.43
37	WIB22301	Ashland	T41N, R1W, S27	0.97
38	WIB22301	Ashland	T41N, R1W, S34	1.39
39	WIB22301	Price	T40N, R1W, S3 and 10	0.43
43	WIB22301	Price	T40N, R1W, S15	0.16
44	WIB22301	Price	T40N, R1W, S22	0.28
45	WIB22301	Price	T40N, R1W, S26	1.89
46	WIB22301	Price	T40N, R1W, S25 and 26	0.59
47	M432B (FID 2936-2937)	Douglas	T47N, R15W, S10	1.02
48	M432B (FID 5359-5406)	Douglas	T47N, R13W, S10	1.53
Total:				36.4

**DESCRIPTION OF PROJECT:** As part of its pipeline integrity program, Northern Natural Gas has conducted an in-line inspection of the Rib Lake (WIB22301) and Carlton-Iron River (M432B) natural gas pipelines and identified segments that require visual inspection and possible maintenance work. Construction activities associated with the verification digs include the digging of a trench to visually inspect the pipeline and conduct maintenance to the line if necessary. Dredged material would be temporarily sidecast on construction matting within the work area and replaced upon completion of the project. Work is planned for the 2024 construction season and all temporary construction matting would be removed within 60 days of placement and disturbed areas would be restored to pre project conditions.

**QUANTITY, TYPE, AND AREA OF FILL:** The regulated activities associated with the project described above include the temporary discharge of dredged and fill material into 36.4 acres of wetland for access, work area, excavation & backfill. Trench size is anticipated to be up to 20 feet wide, up to 10 feet deep. Temporary wetland disturbance would be returned to pre-construction contours following project completion and areas of ground disturbance would be seeded with a native seed mix.

**VEGETATION IN AFFECTED AREA:** A variety of wetland types are proposed to be impacted the majority of which are located within an existing pipeline right-of-way (ROW) consisting of herbaceous plant communities. Herbaceous, and woody shrub vegetation may be mowed within the proposed workspaces. Minor Tree clearing is anticipated at sites 1, 2, 3, 4, 5, 10, 11, 13, 14, 21, 28, 31, 32, 34, 37, 38, 39, 44 and 46 to re-establish the edges of the existing ROW. All clearing would be non-mechanized and stump grinding would not occur. These areas will be allowed to revegetate upon project completion.

**SOURCE OF FILL MATERIAL:** All fill material utilized for this project would either be generated on-site or hauled in from a licensed source and would be free of contaminants.



**SURROUNDING LAND USE:** The dig sites are located within an existing pipeline right-of-way (ROW) consisting of herbaceous uplands and wetlands identified by the Wisconsin Wetland Inventory (WWI). Surrounding land use consists predominantly of forested upland and wetland habitat located on both sides of the ROW.

**DESCRIPTION OF EXCAVATION:** The trenching dimensions would be the minimum necessary to conduct the pipeline inspection and maintenance. Material would be temporarily sidecast on construction matting within the work area to prevent soil mixing with the natural ground surface. During excavation, topsoil would be segregated from subsoil. Appropriate perimeter sediment control would also be installed surrounding temporary spoil piles. During backfilling, soils would be replaced to their appropriate stratum and the area restored to preexisting conditions, including elevation and vegetation.

**THE FOLLOWING POTENTIALLY TOXIC MATERIALS COULD BE USED AT THE PROJECT SITE:** The applicant does not propose to use any potentially toxic materials. All fill material used on-site would be free of contaminants.

**THE FOLLOWING PRECAUTIONS TO PROTECT WATER QUALITY HAVE BEEN DESCRIBED BY THE APPLICANT:** Implementation of construction BMPs (equipment washing, silt fence and reseeding of disturbed areas) are proposed to minimize impacts. All temporary wetland soil disturbance would be returned to pre-construction contours.

**MITIGATION:** Compensatory mitigation has not been proposed by the applicant. The project would be evaluated by the Corps for the loss of wetland functions and potential compensatory mitigation to offset those losses may be required in accordance with the 2008 Federal Mitigation Rule.

### 3. FEDERALLY LISTED THREATENED OR ENDANGERED WILDLIFE OR PLANTS OR THEIR CRITICAL HABITAT

The USFWS Official Species List of Federally listed threatened or endangered species was generated for the project. The following species are said to reside in Douglas, Price and Ashland Counties, Wisconsin:

## MAMMALS

NAME	STATUS
<b>Canada Lynx</b> <i>Lynx canadensis</i> Population: Wherever Found in Contiguous U.S. There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3652">https://ecos.fws.gov/ecp/species/3652</a>	Threatened
<b>Gray Wolf</b> <i>Canis lupus</i> Population: U.S.A.: All of AL, AR, CA, CO, CT, DE, FL, GA, IA, IN, IL, KS, KY, LA, MA, MD, ME, MI, MO, MS, NC, ND, NE, NH, NJ, NV, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, and WV; and portions of AZ, NM, OR, UT, and WA. Mexico. There is <b>final</b> critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4488">https://ecos.fws.gov/ecp/species/4488</a>	Endangered
<b>Northern Long-eared Bat</b> <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Endangered
<b>Tricolored Bat</b> <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a>	Proposed Endangered

## FLOWERING PLANTS

NAME	STATUS
<b>Fassett's Locoweed</b> <i>Oxytropis campestris</i> var. <i>chartacea</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/209">https://ecos.fws.gov/ecp/species/209</a>	Threatened

## BIRDS

NAME	STATUS
<b>Whooping Crane</b> <i>Grus americana</i> Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/758">https://ecos.fws.gov/ecp/species/758</a>	Experimental Population, Non- Essential

## INSECTS

NAME	STATUS
<b>Monarch Butterfly</b> <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

## CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

This application is being coordinated with the U.S. Fish and Wildlife Service. Any comments it may have concerned Federally listed threatened or endangered wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

#### 4. JURISDICTION

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

#### 5. SECTION 401 WATER QUALITY CERTIFICATION

Valid Section 404 permits cannot be issued for any activity unless water quality certification for the activity is granted or waived pursuant to Section 401 of the Clean Water Act. The Section 401 authority for this project is The Wisconsin Department of Natural Resources. A Department of the Army permit will not be granted until The Wisconsin Department of Natural Resources has issued or waived Section 401 WQC certification and the U.S. Environmental Protection Agency (USEPA) neighboring jurisdiction process is completed. Corps Section 404 Clean Water Act decisions may not be finalized until after the USEPA completes this process.

#### 6. HISTORICAL/ARCHAEOLOGICAL

This public notice is being sent to the National Park Service and the State Archaeologist for their comments. The Corps will review information on known cultural resources and/or historic properties within and adjacent to the project area. The Corps will also consider the potential effects of the project on any properties that have yet to be identified. The results of this review and the Corps' determination of effect will be coordinated with the State Historic Preservation Officer independent of this public notice. Any adverse effects on historic properties will be resolved prior to the Corps authorization, or approval, of the work in connection with this project.

#### 7. PUBLIC HEARING REQUESTS

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, in detail, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided or if there is otherwise no valid interest to be served.

#### 8. PUBLIC INTEREST REVIEW

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. Environmental and other documents will be available for review in the St. Paul District Office.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

## 9. COASTAL ZONE MANAGEMENT

The Wisconsin Coastal Management Program (WCMP) is conducting a federal consistency review to verify the activities considered under this permit will comply with state coastal policies. Comments should be received by WCMP within 21 days. Further information may be obtained from: [coastal@wisconsin.gov](mailto:coastal@wisconsin.gov); <http://coastal.wisconsin.gov>.

## REPLIES/COMMENTS

Interested parties are invited to submit to this office written facts, arguments, or objections by the expiration date indicated above. These statements should bear upon the suitability of the location and the adequacy of the project and should, if appropriate, suggest any changes believed to be desirable. Comments received may be forwarded to the applicant.

Replies may be sent to David Palme at [David.D.Palme@usace.army.mil](mailto:David.D.Palme@usace.army.mil).

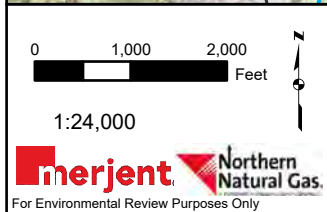
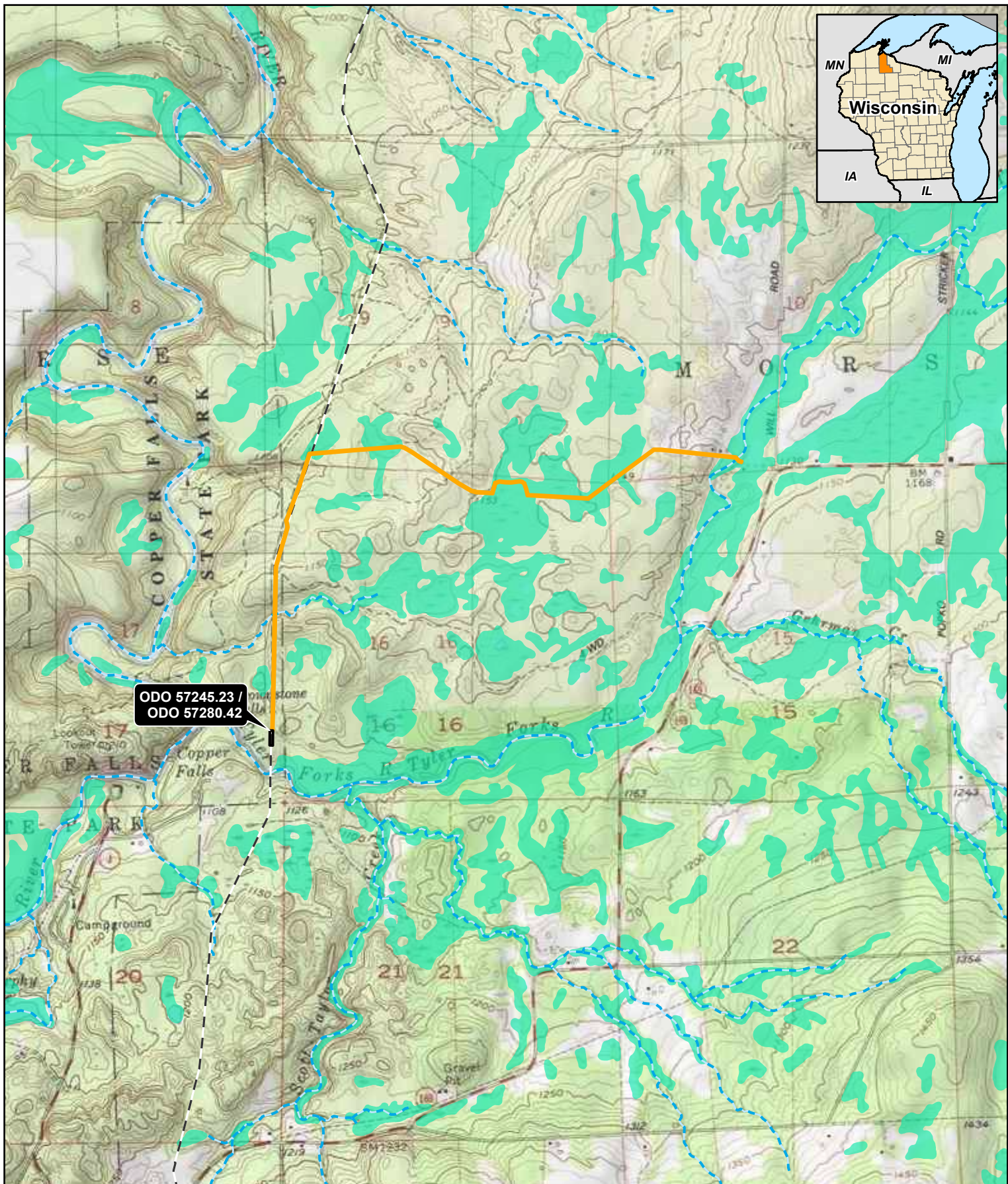
IF YOU HAVE QUESTIONS ABOUT THE PROJECT, contact David Palme at the Stevens Point office at 651-290-5880 or [David.D.Palme@usace.army.mil](mailto:David.D.Palme@usace.army.mil).

To receive Public Notice notifications, go to: <https://www.mvp.usace.army.mil/Contact/RSS/> and subscribe to the RSS Feed for which you would like to receive Public Notices.

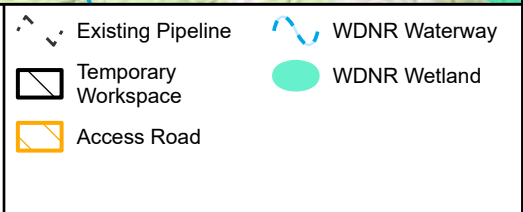
Enclosures: 2024-00330-DDP PN Figures

Group 1

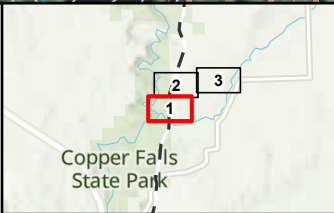
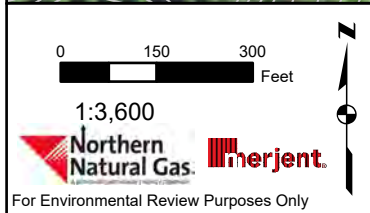




**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 57245.32 / 57280.42**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





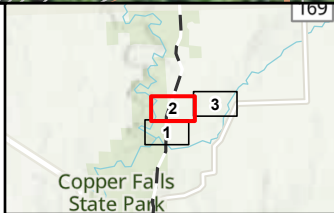
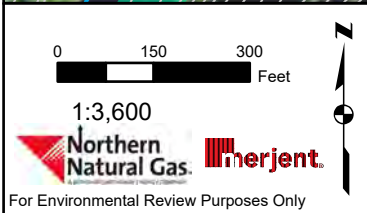
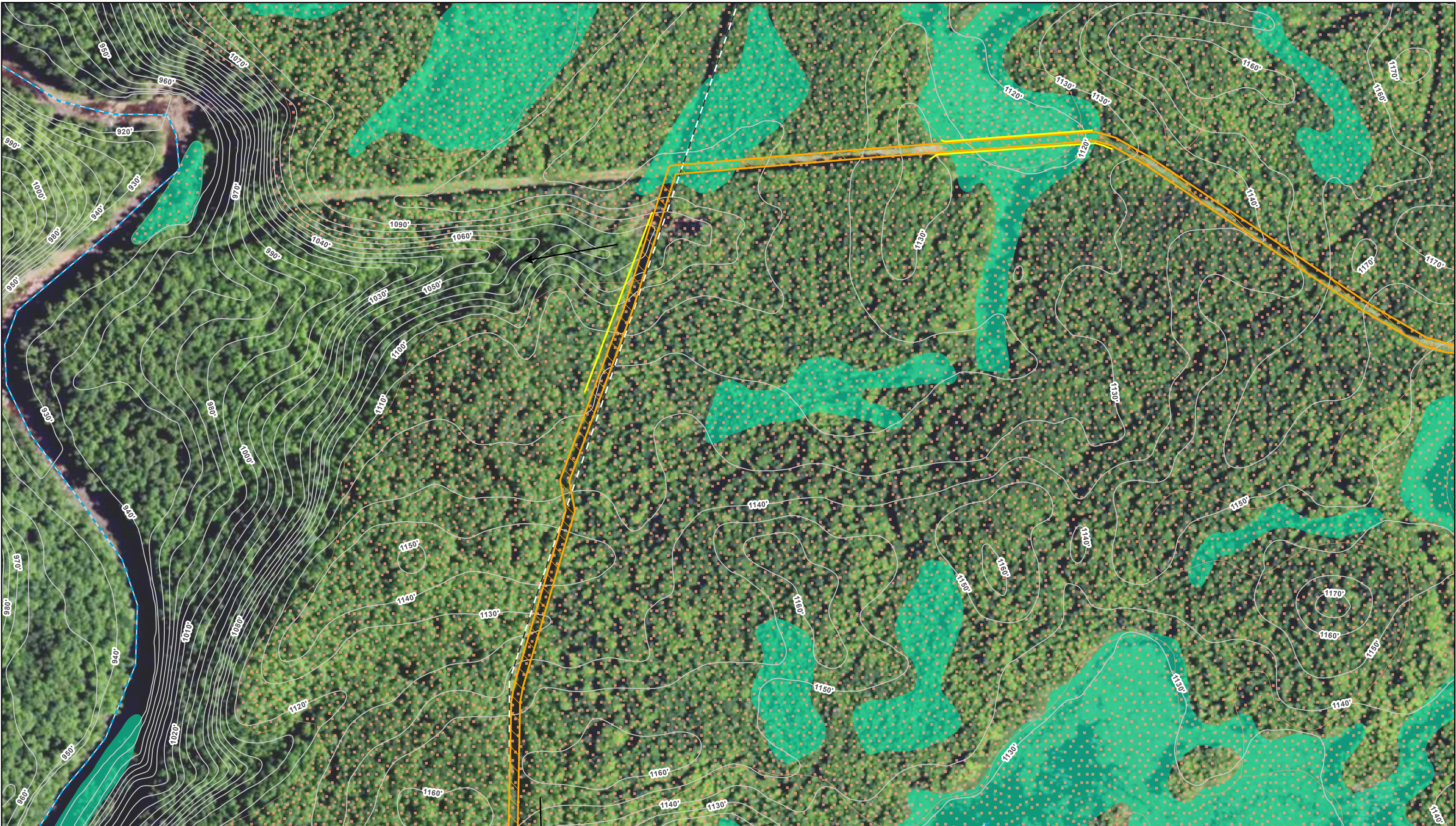


Page 1 of 3

**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 57245.32 / 57280.42**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

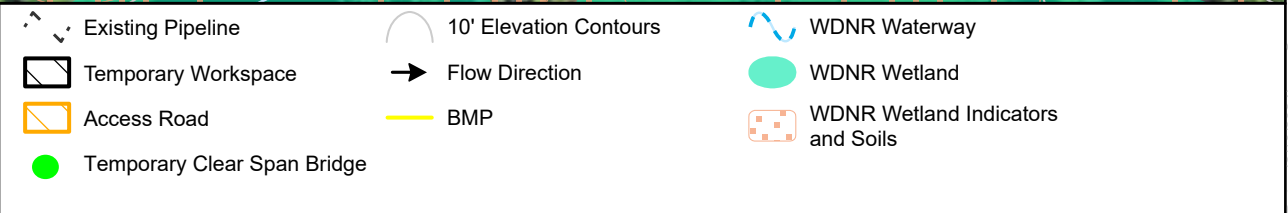
- |                             |                        |                                   |
|-----------------------------|------------------------|-----------------------------------|
| Existing Pipeline           | 10' Elevation Contours | WDNR Waterway                     |
| Temporary Workspace         | Flow Direction         | WDNR Wetland                      |
| Access Road                 | BMP                    | WDNR Wetland Indicators and Soils |
| Temporary Clear Span Bridge |                        |                                   |



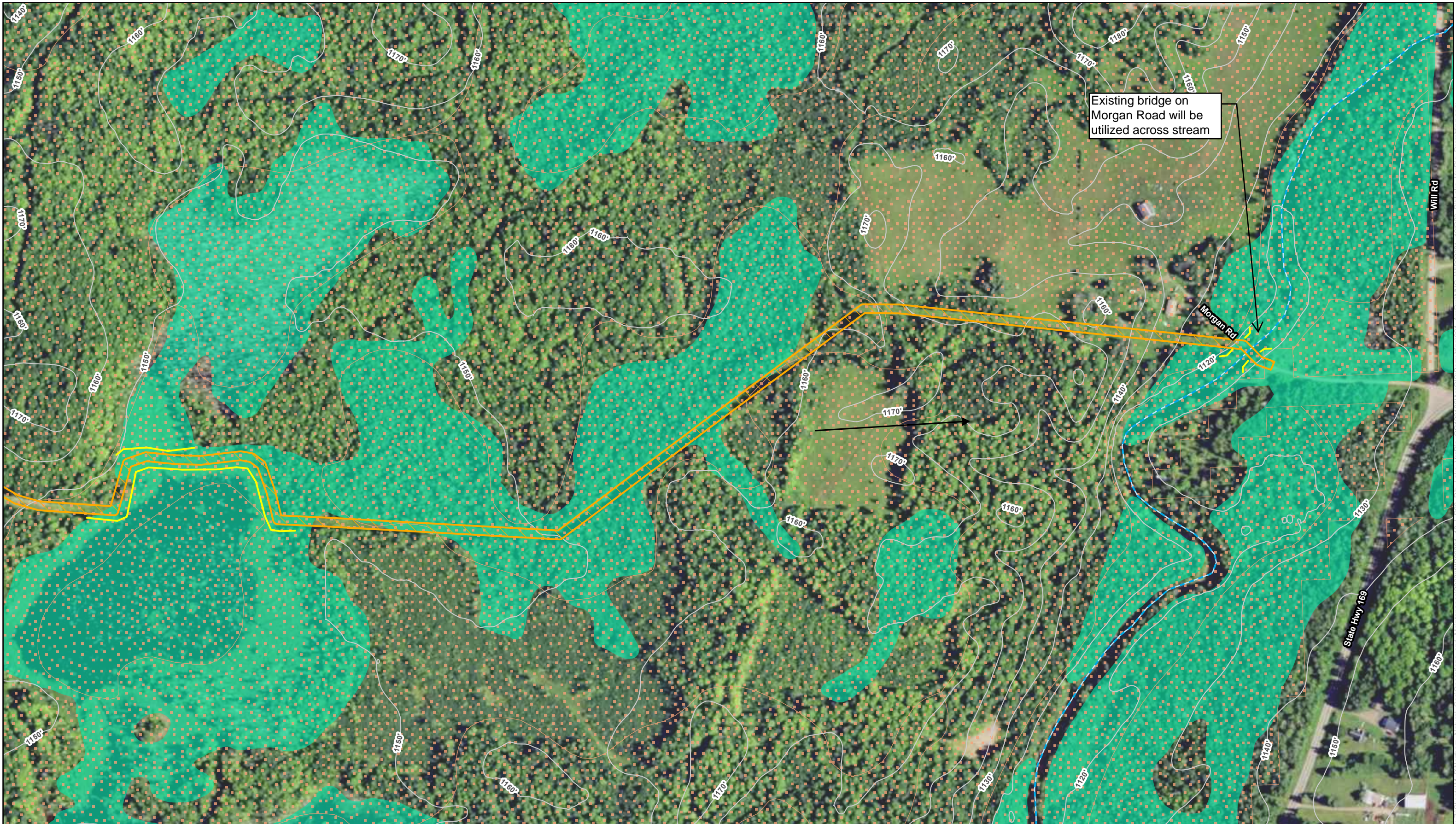


Page 2 of 3

**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 57245.32 / 57280.42**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**







0150300

Feet

1:3,600

For Environmental Review Purposes Only

169

2

3

1

Ashland County

Iron County

Copper Falls State Park

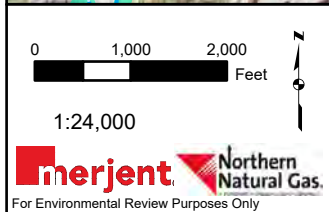
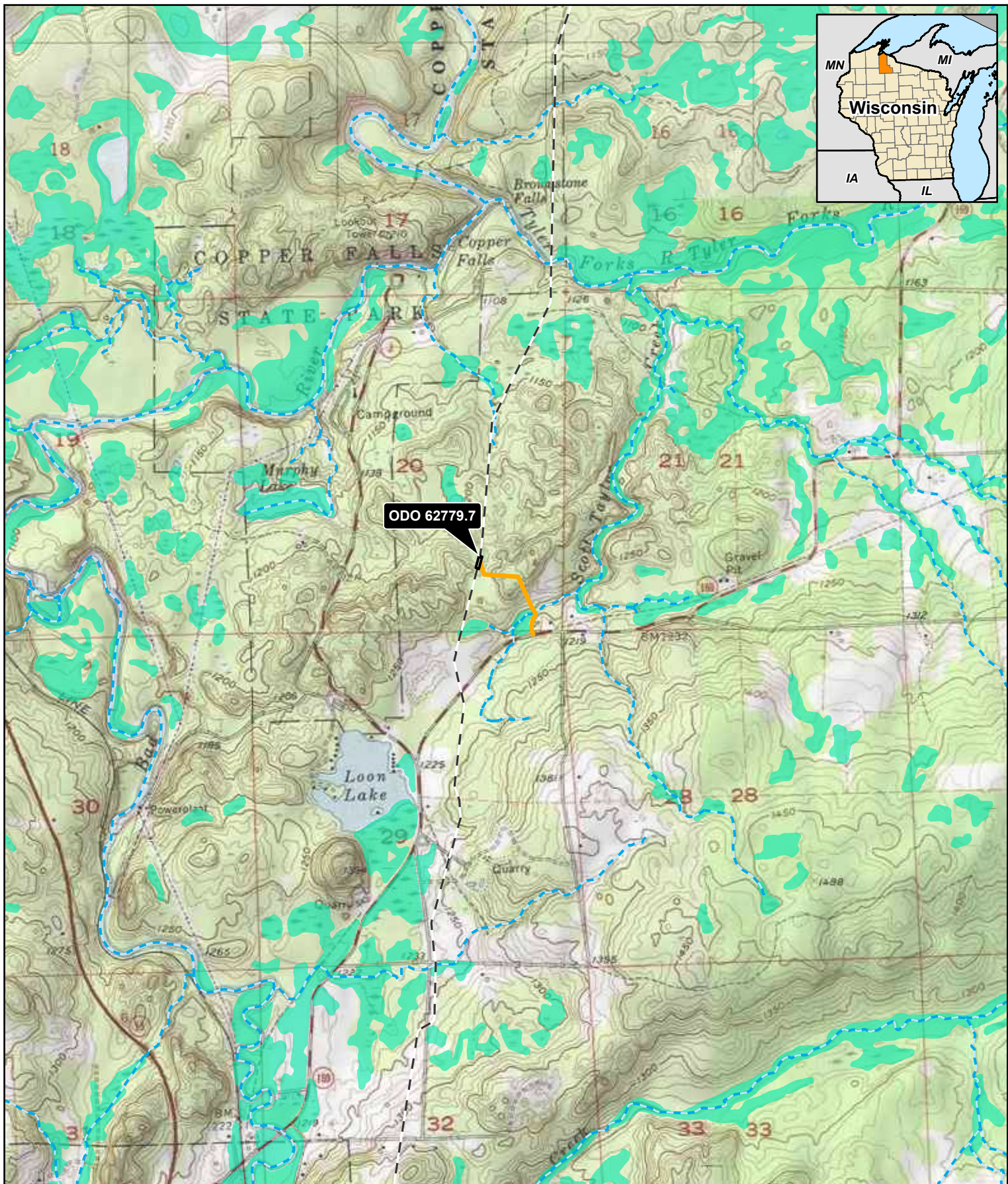
Page 3 of 3

**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 57245.32 / 57280.42**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

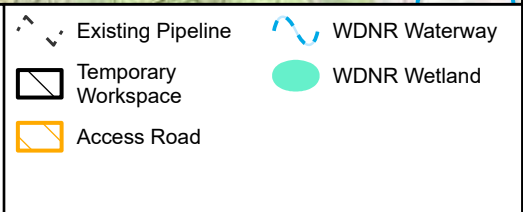
Existing Pipeline	10' Elevation Contours	WDNR Waterway
Temporary Workspace	Flow Direction	WDNR Wetland
Access Road	BMP	WDNR Wetland Indicators and Soils
Temporary Clear Span Bridge		



Group 2

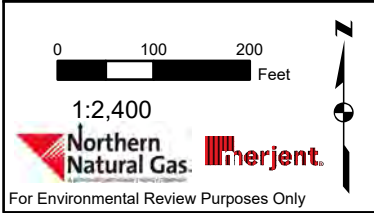
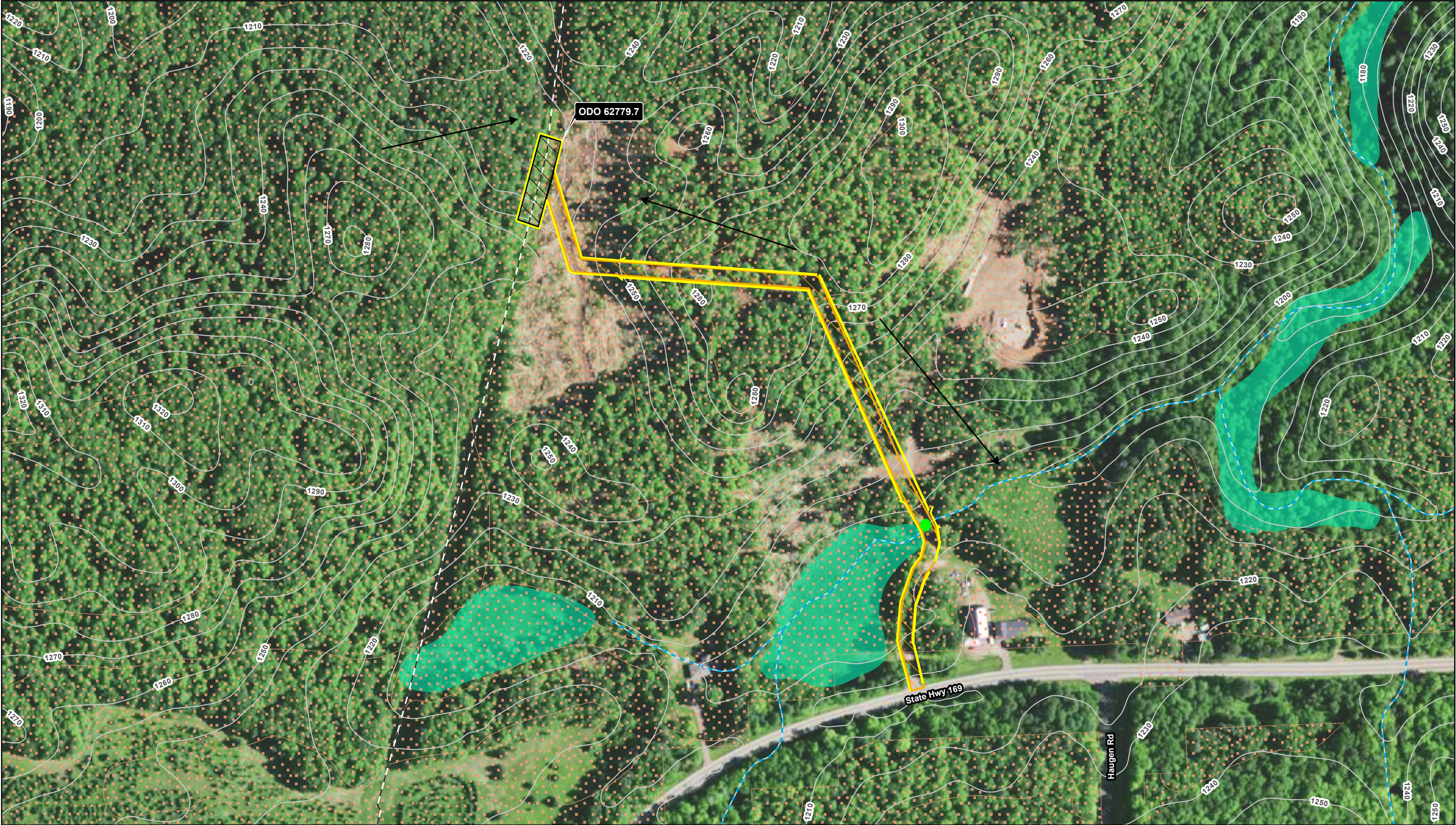


**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 62779.7**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**



Source: (1/16/2024) Clients\W\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\WIB22301-10-I-R23\_Rib\_Lake\_Verifig\_OO129106\ACRONNG\_WIB22301-10-I-R23\_RibLake\_Verifig.aprx





**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 62779.7**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





Group 3

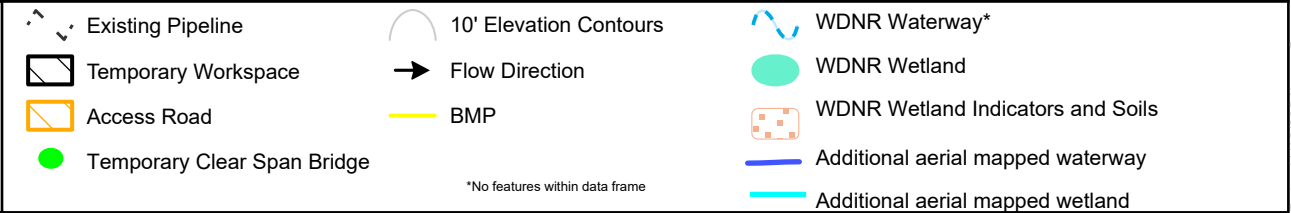








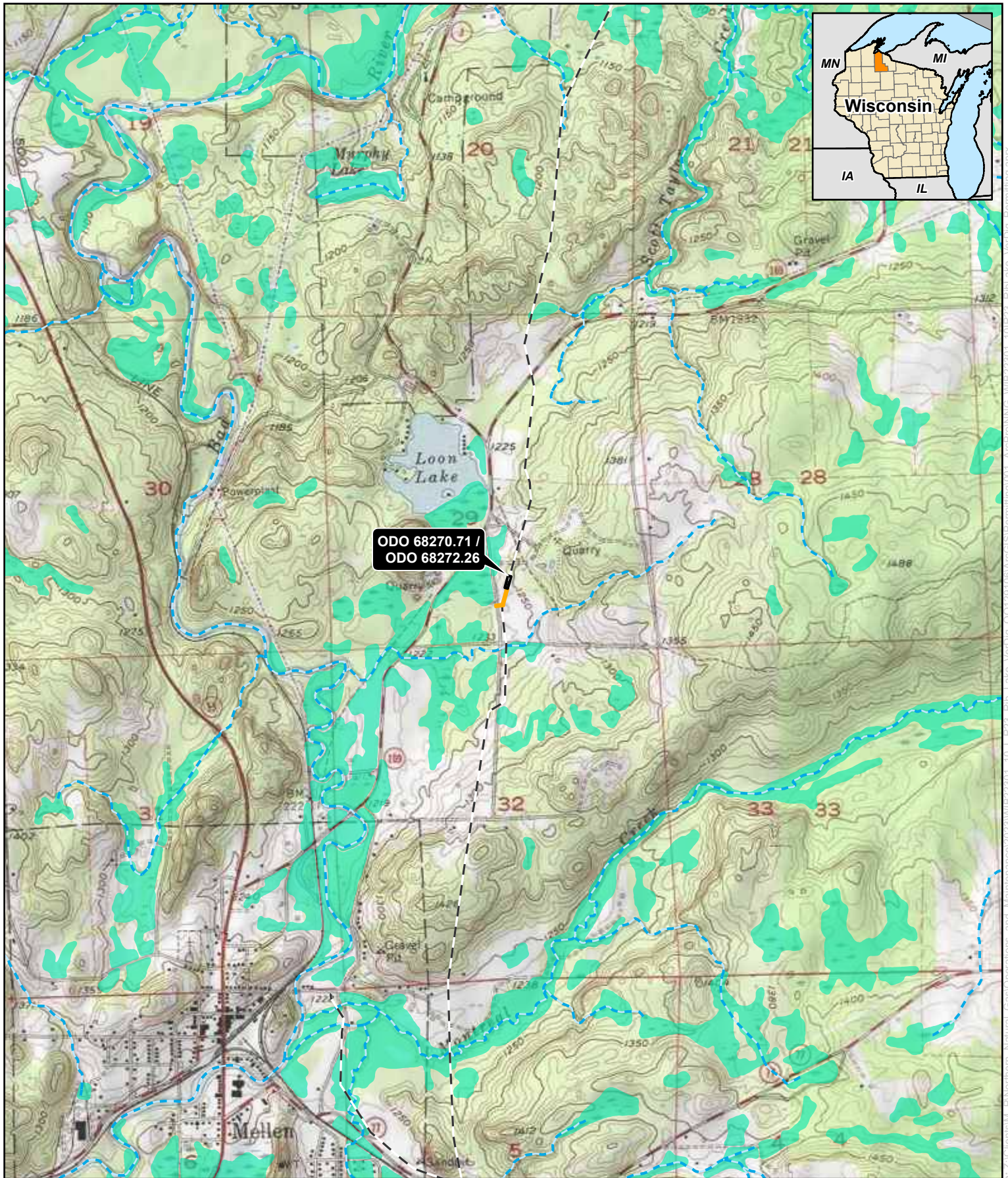
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 66916.27 / 67414.47 / 67416.69**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





Group 4





0 1,000 2,000 Feet

1:24,000

**merjent** Northern Natural Gas

For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 68270.71 / 68272.26**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline

Temporary Workspace

Access Road

WDNR Waterway

WDNR Wetland





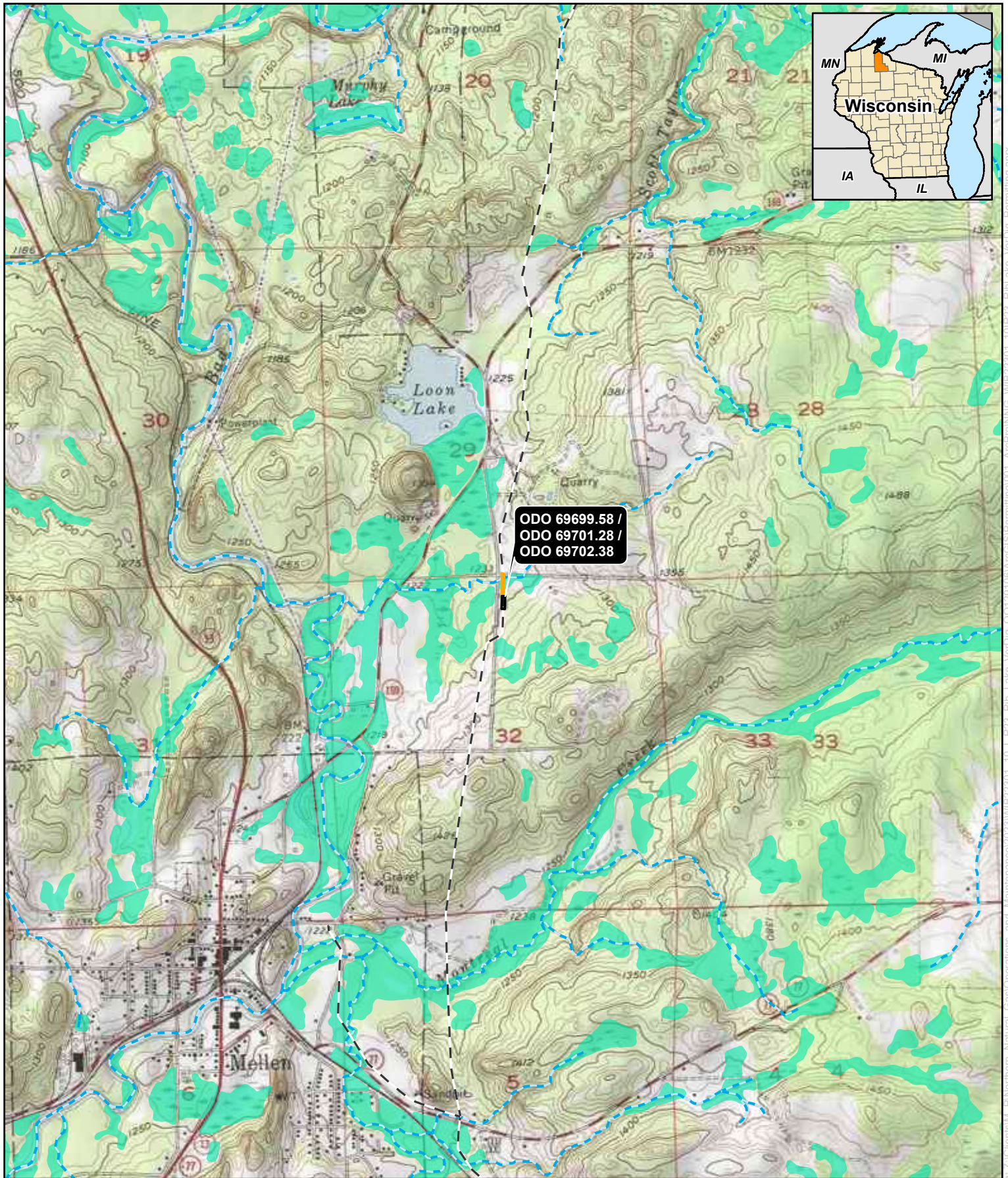
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 68270.71 / 68272.26**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





Group 5





0 1,000 2,000 Feet

1:24,000

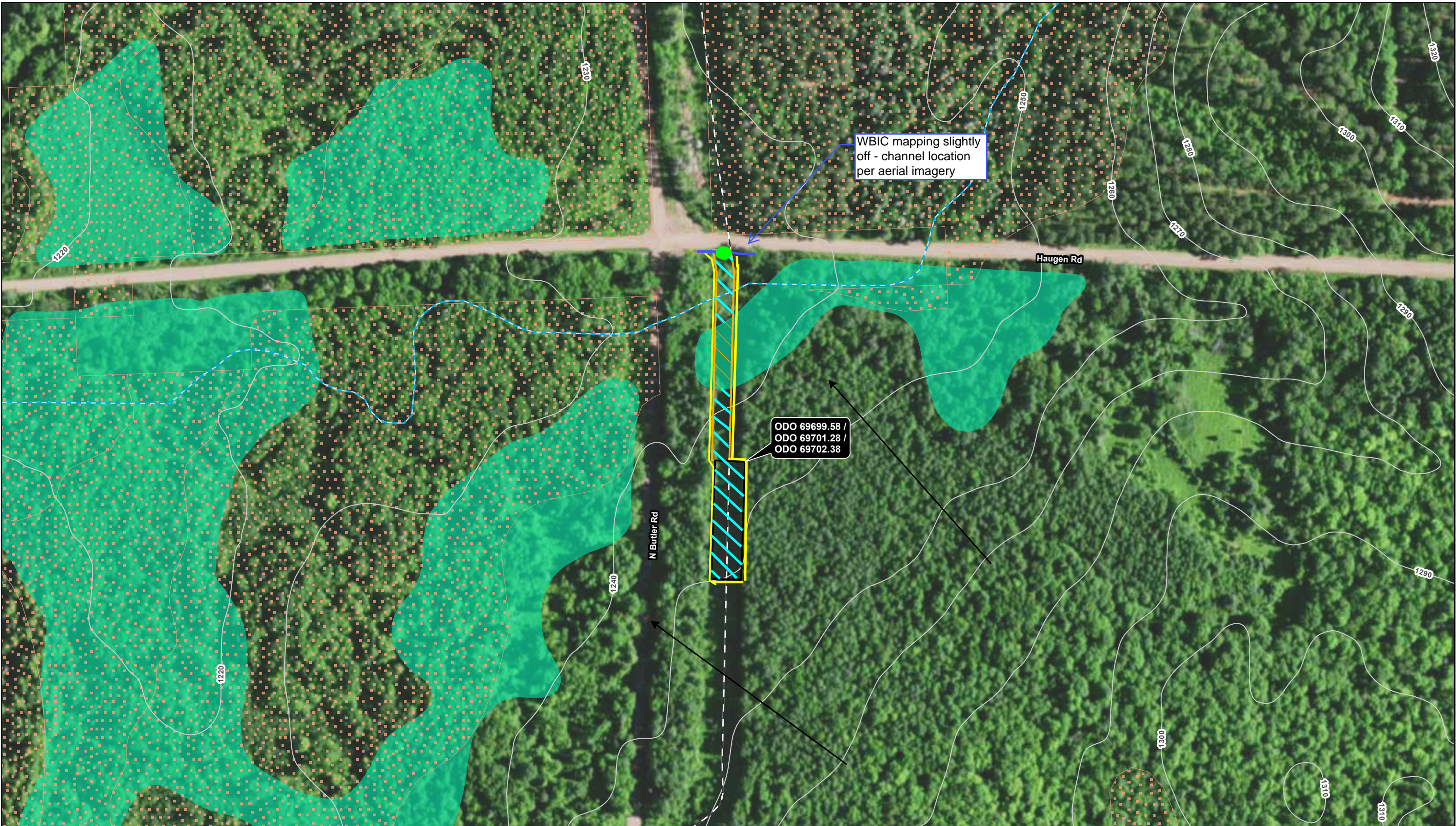
**merjent** Northern Natural Gas

For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 69699.58/ 69701.28 / 69702.38**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline	WDNR Waterway
Temporary Workspace	WDNR Wetland
Access Road	





075150

Feet

1:1,800

For Environmental Review Purposes Only

Copper Falls State Park

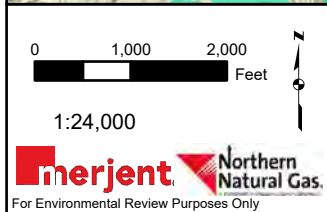
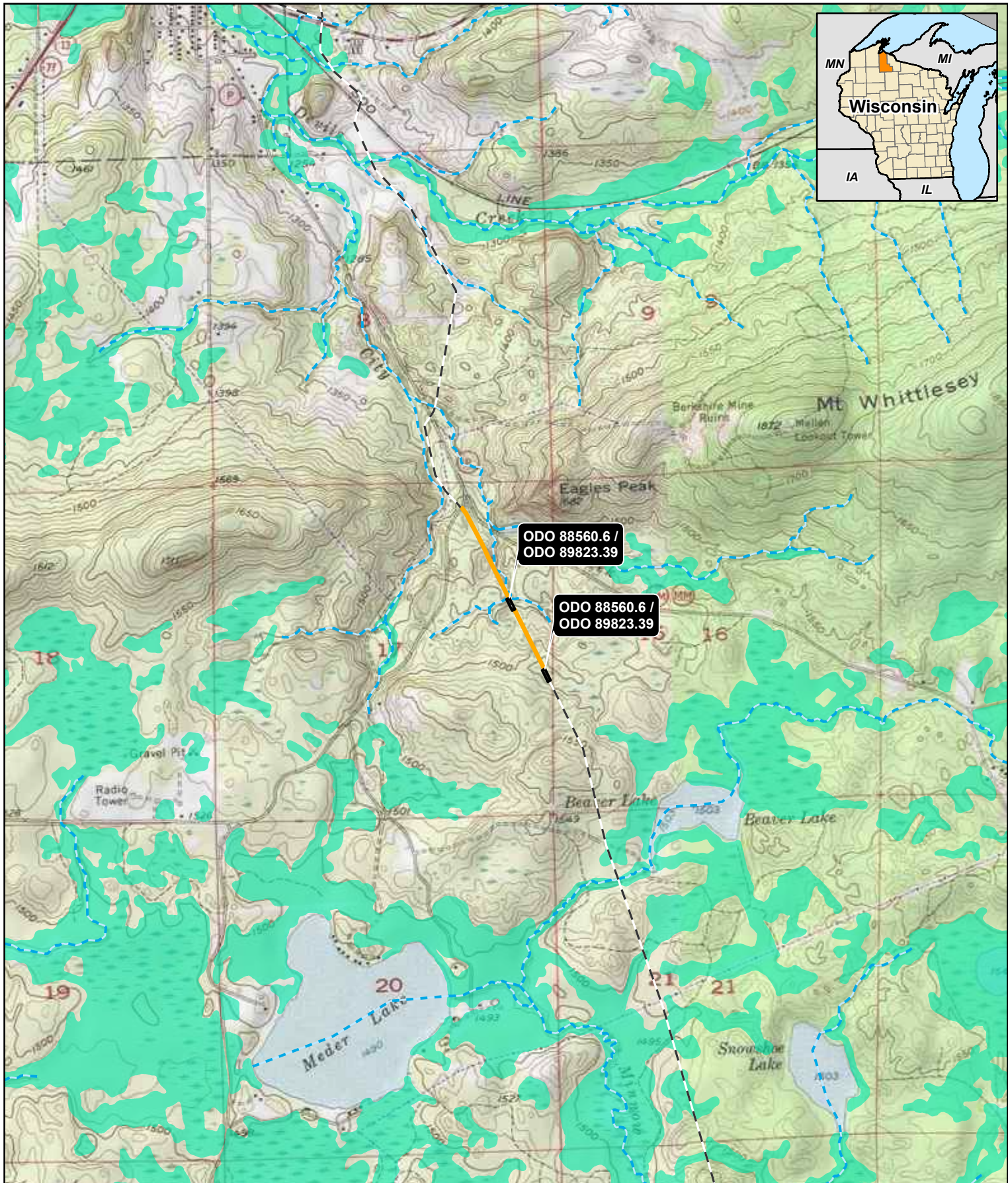
Mellen

**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 69699.58/ 69701.28 / 69702.38**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

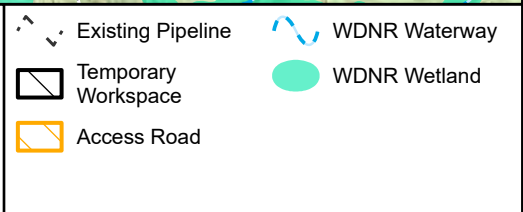
Existing Pipeline	10' Elevation Contours	WDNR Waterway
Temporary Workspace	Flow Direction	WDNR Wetland
Access Road	BMP	WDNR Wetland Indicators and Soils
Temporary Clear Span Bridge	Additional aerial mapped wetland	Aerial mapped waterway



Group 9

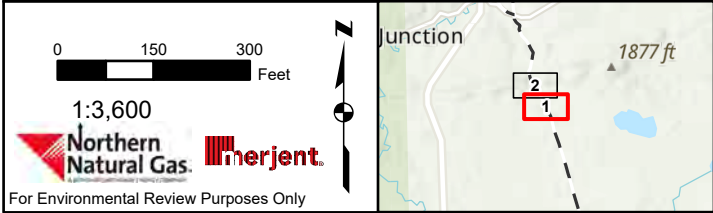
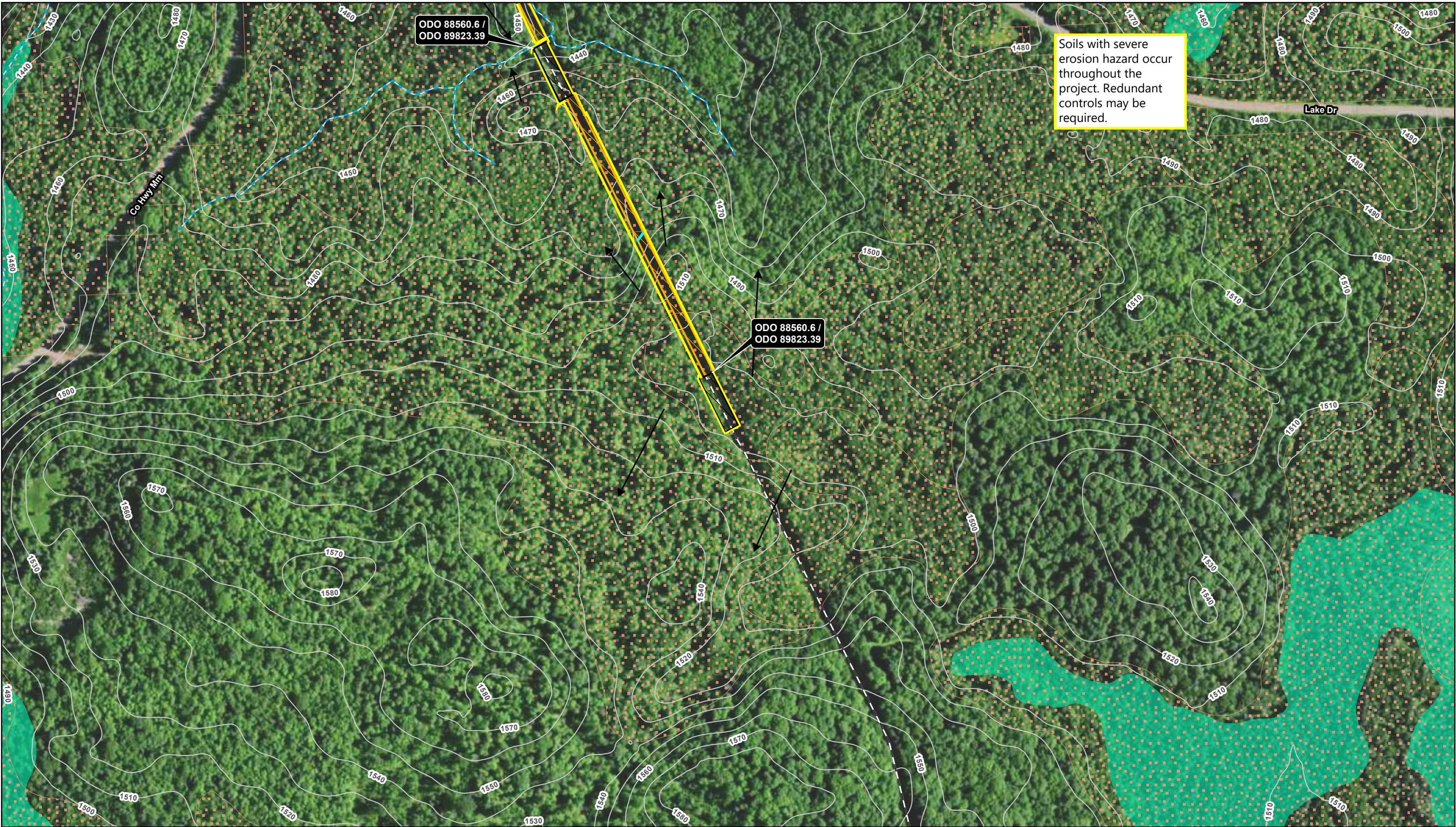


**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 88560.6 / 89823.39**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

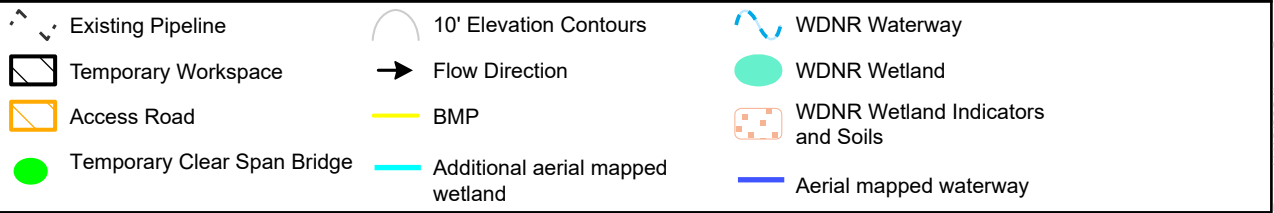


Source: 1. Clients\W\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\WIB22301-10-I-R23\_Rib\_Lake\_Verifig\_OO129106\ACGIS\Permitting\001\_AcPermitting\_WIB22301-10-I-R23\_RibLake\_Verifig.aprx Date: 1/18/2024

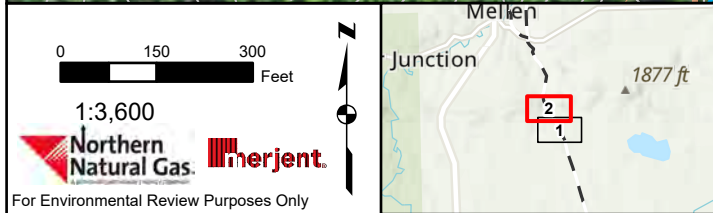
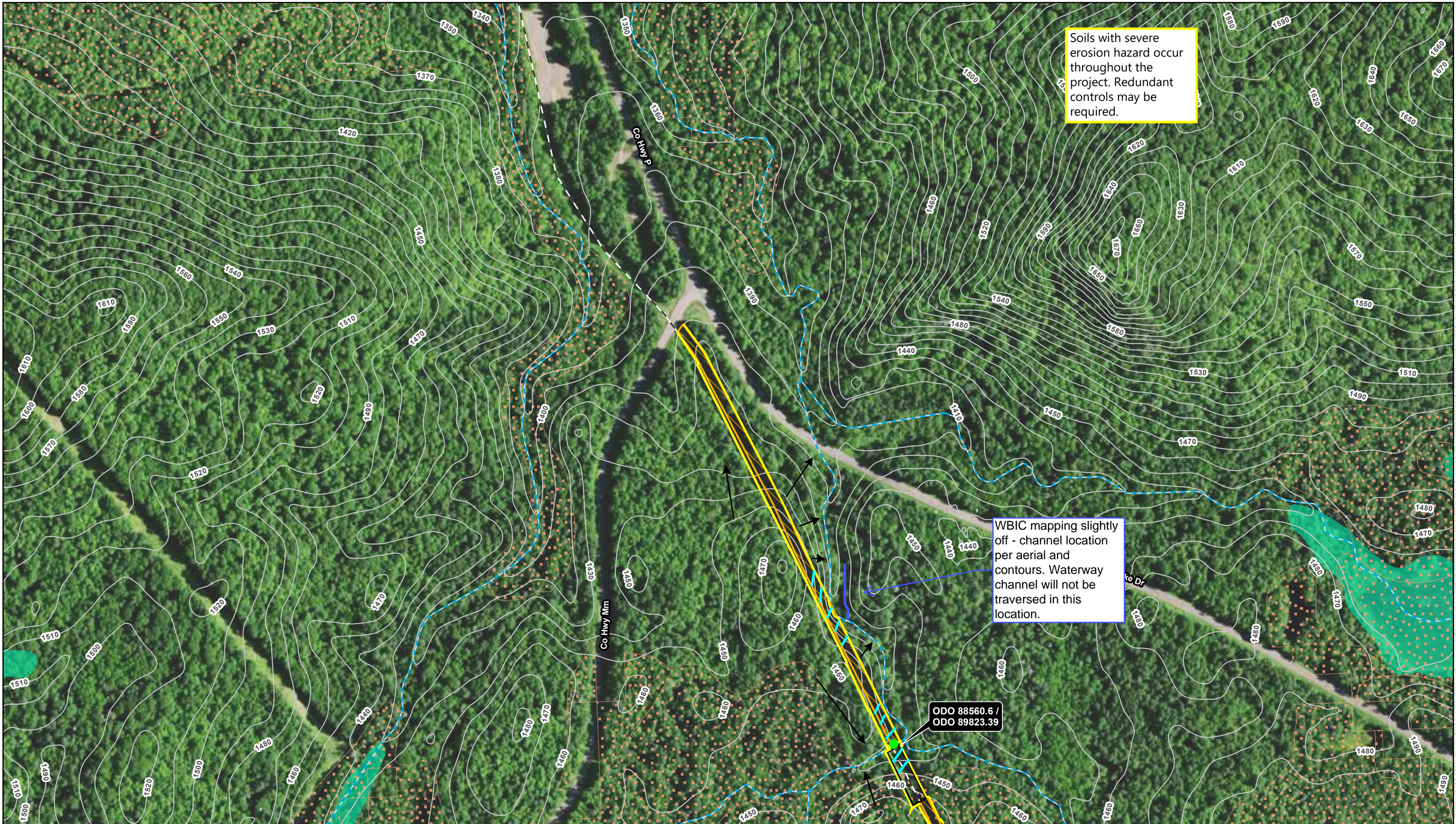




**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 88560.6 / 89823.39**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

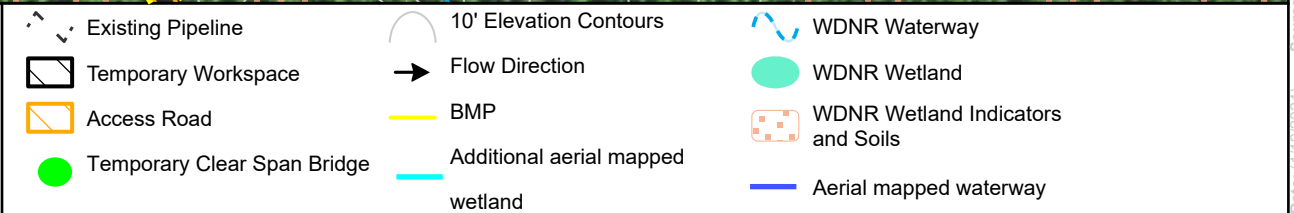






Page 2 of 2

**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 88560.6 / 89823.39**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**



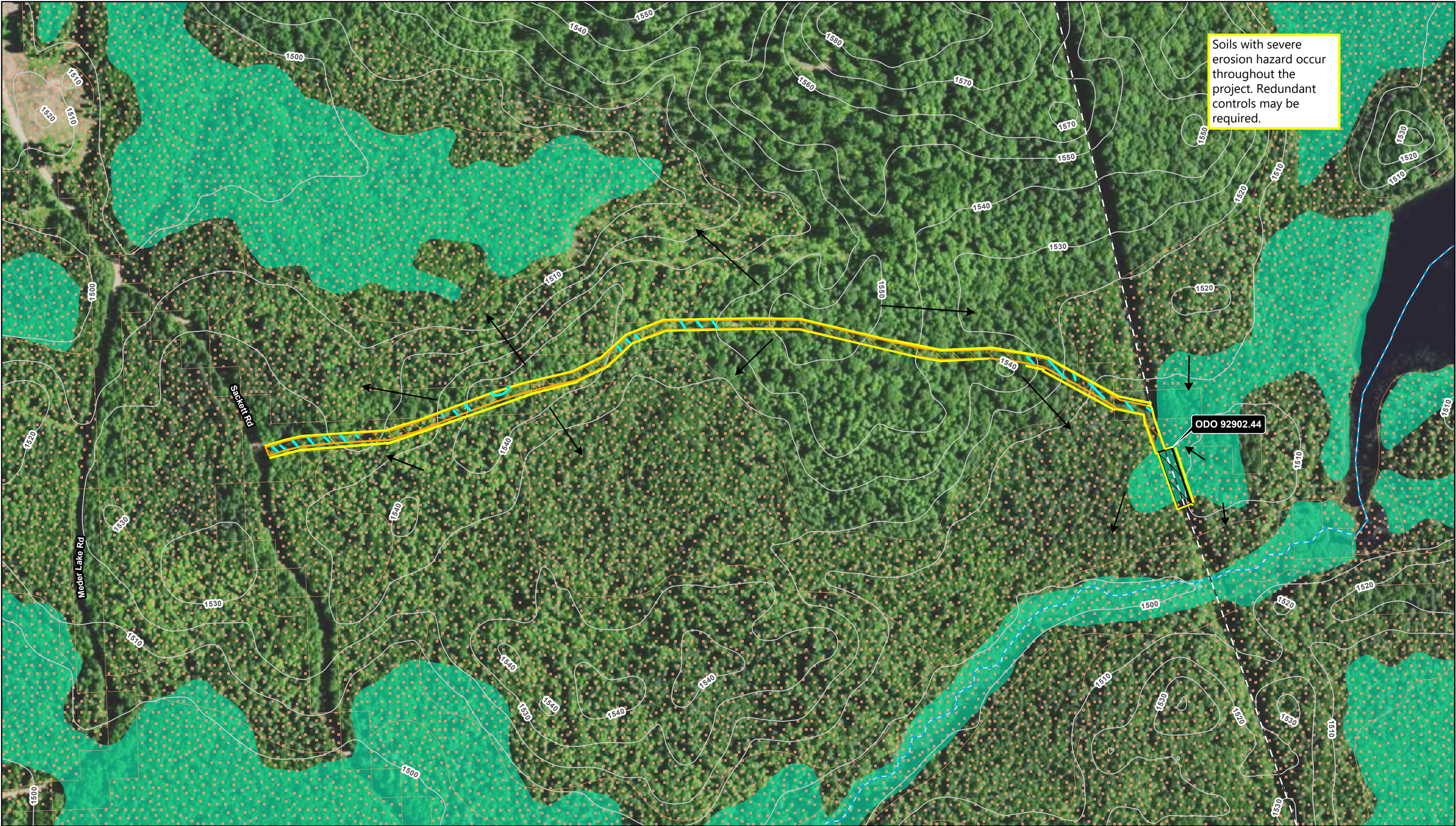
Source: Z:\Clients\WIP\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\WIB22301\_10\_I\_R23\_Rib\_Lake\_VerDig\_OO129106\ArcGIS-Permitting\00\_ArcPinning\_WIB22301\_10\_I\_R23\_Rib\_Lake\_VerDig\_Permitting.aprx Date: (1/19/2024)



Group 10

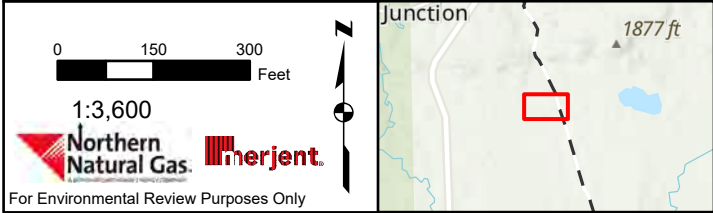






Soils with severe erosion hazard occur throughout the project. Redundant controls may be required.

ODO 92902.44

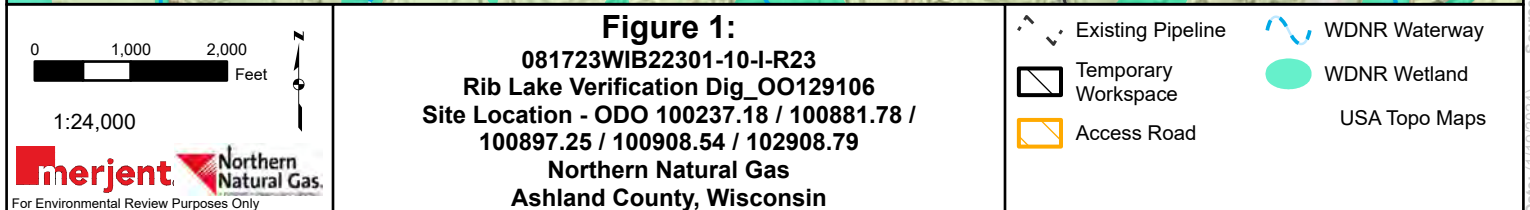
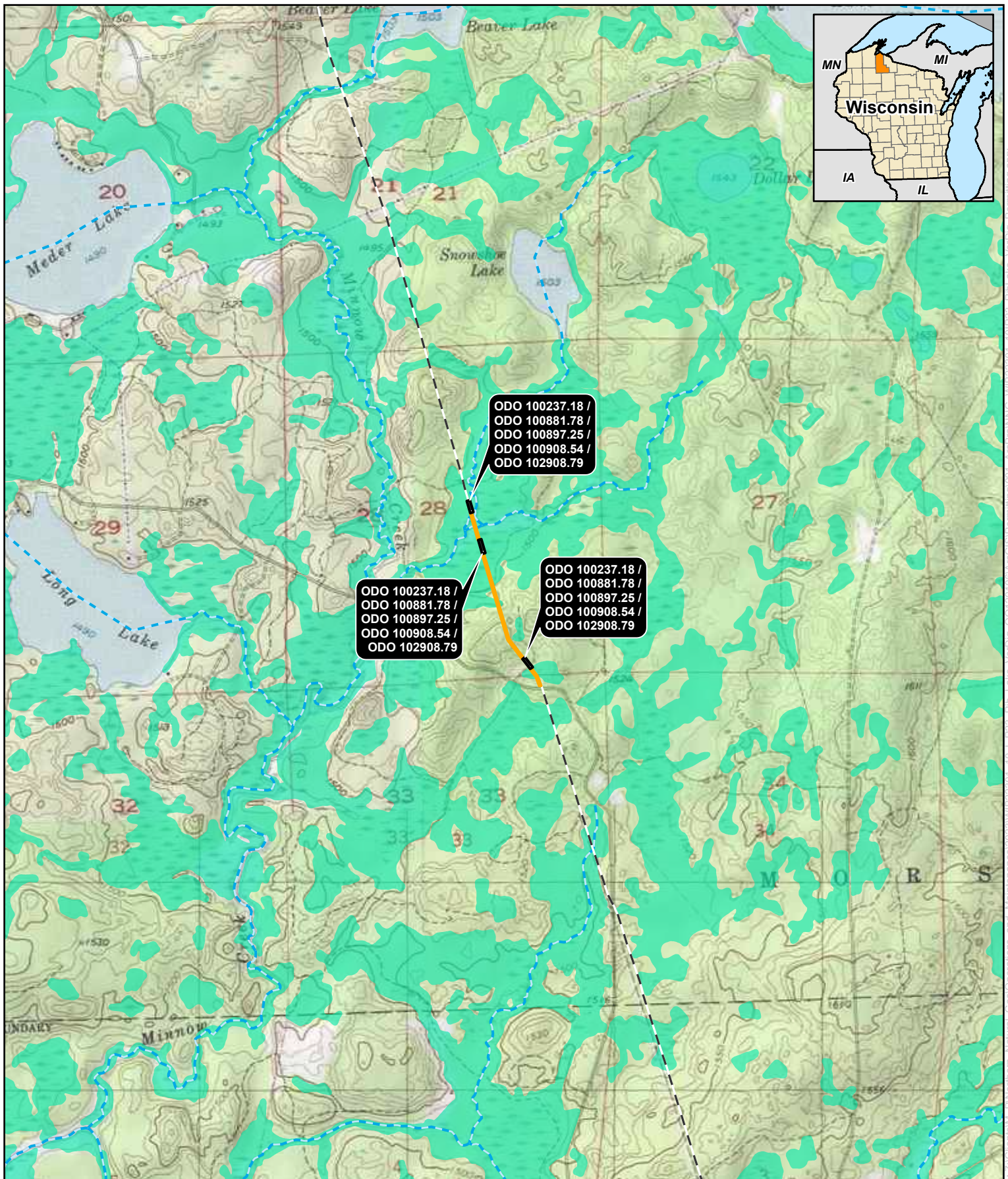


**Figure 2:**  
081723WIB22301-10-I-R23 Rib Lake  
Verification Dig\_OO129106  
Site Plan - ODO 92902.44  
Northern Natural Gas  
Ashland County, Wisconsin

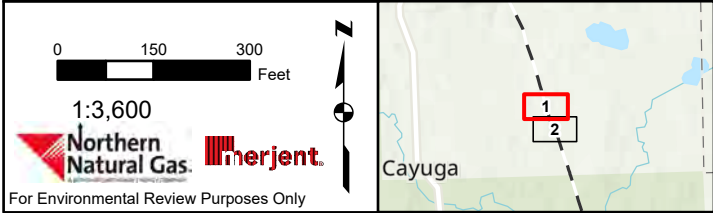
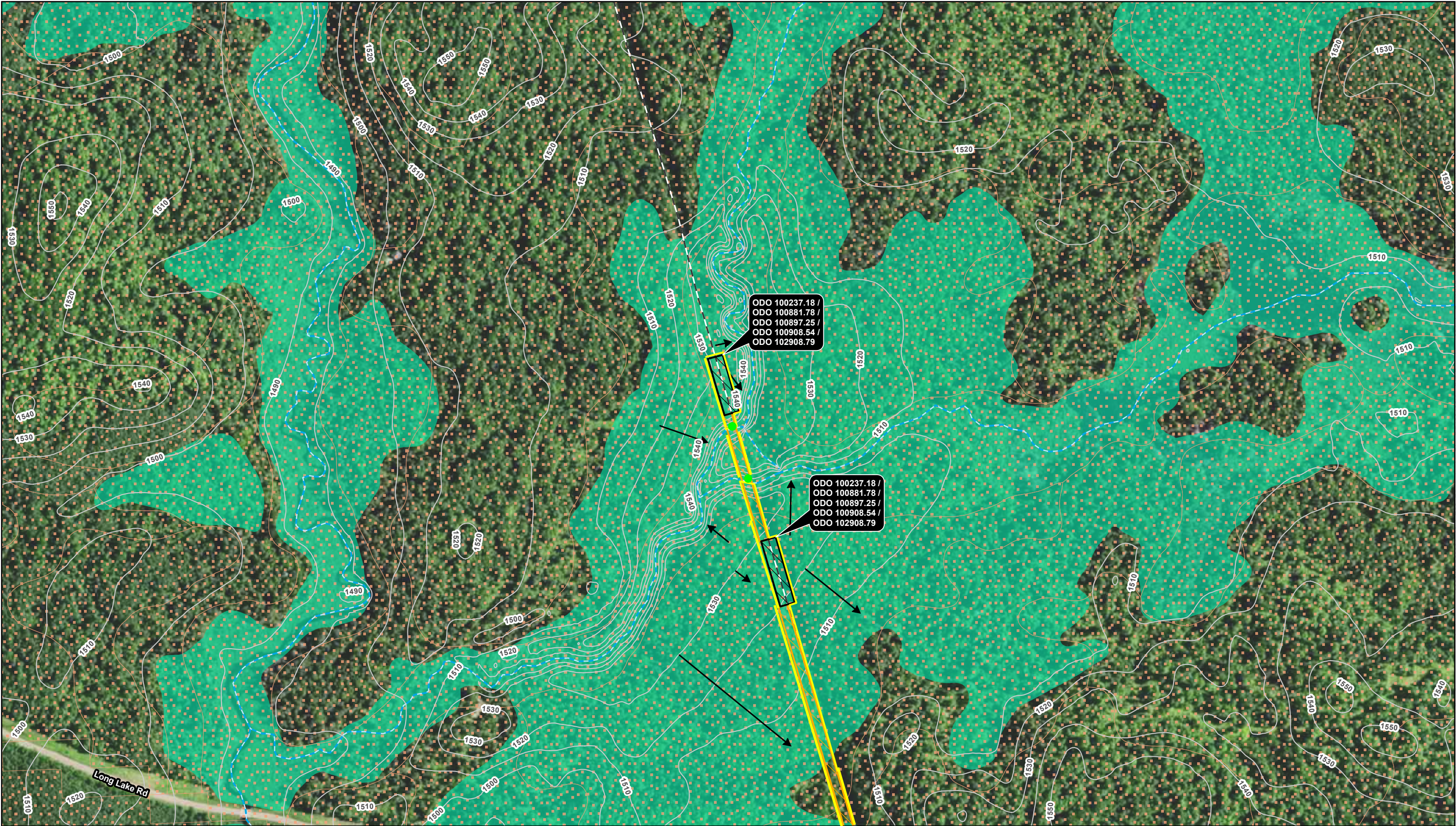
- |                     |                        |                                   |
|---------------------|------------------------|-----------------------------------|
| Existing Pipeline   | 10' Elevation Contours | WDNR Waterway                     |
| Temporary Workspace | Flow Direction         | WDNR Wetland                      |
| Access Road         | BMP                    | WDNR Wetland Indicators and Soils |
|                     |                        | Additional aerial mapped wetland  |



Group 11







Page 1 of 2

**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 100237.18 / 100881.78 / 100897.25 / 100908.54 / 102908.79**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**



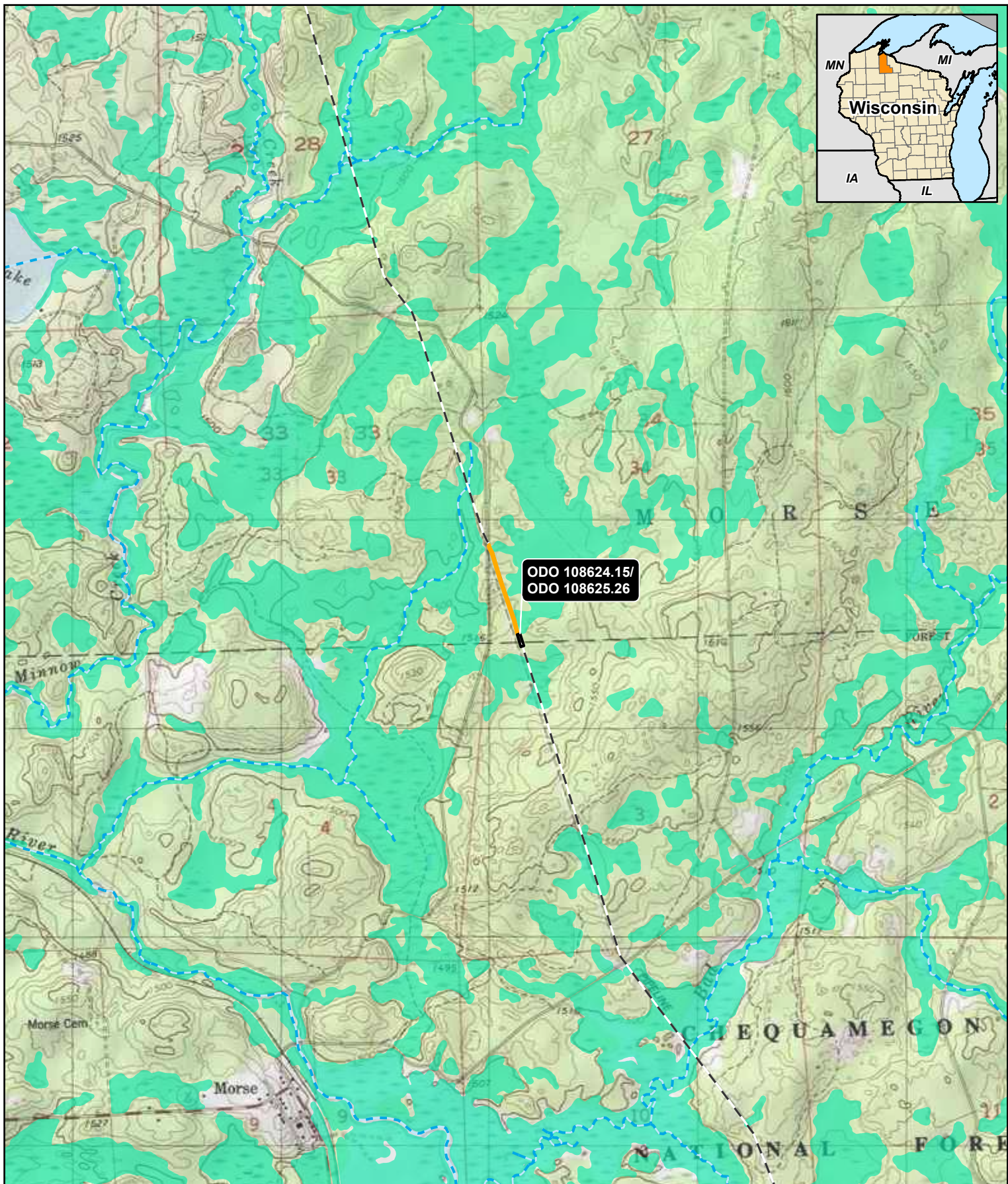






Group 12





0 1,000 2,000 Feet

1:24,000

**merjent** Northern Natural Gas

For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 108624.15 / 108625.26**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline	WDNR Waterway
Temporary Workspace	WDNR Wetland
Access Road	

Source: 1719/2024 Northern Natural Gas Operations and Maintenance 2023 WIB22301-10-I-R23 Rib Lake Verification Dig\_OO129106 GIS Permitting 001\_Ashland\_NG\_WIB22301-10-I-R23\_RibLake\_VerDig\_Permitting.aprx





**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 108624.15 / 108625.26**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

- |                     |                        |                                   |
|---------------------|------------------------|-----------------------------------|
| Existing Pipeline   | 10' Elevation Contours | WDNR Waterway                     |
| Temporary Workspace | Flow Direction         | WDNR Wetland                      |
| Access Road         | BMP                    | WDNR Wetland Indicators and Soils |
|                     |                        | Additional aerial mapped wetland  |

0150300

Feet

1:3,600

Northern Natural Gas

Herjent

For Environmental Review Purposes Only

ayuga

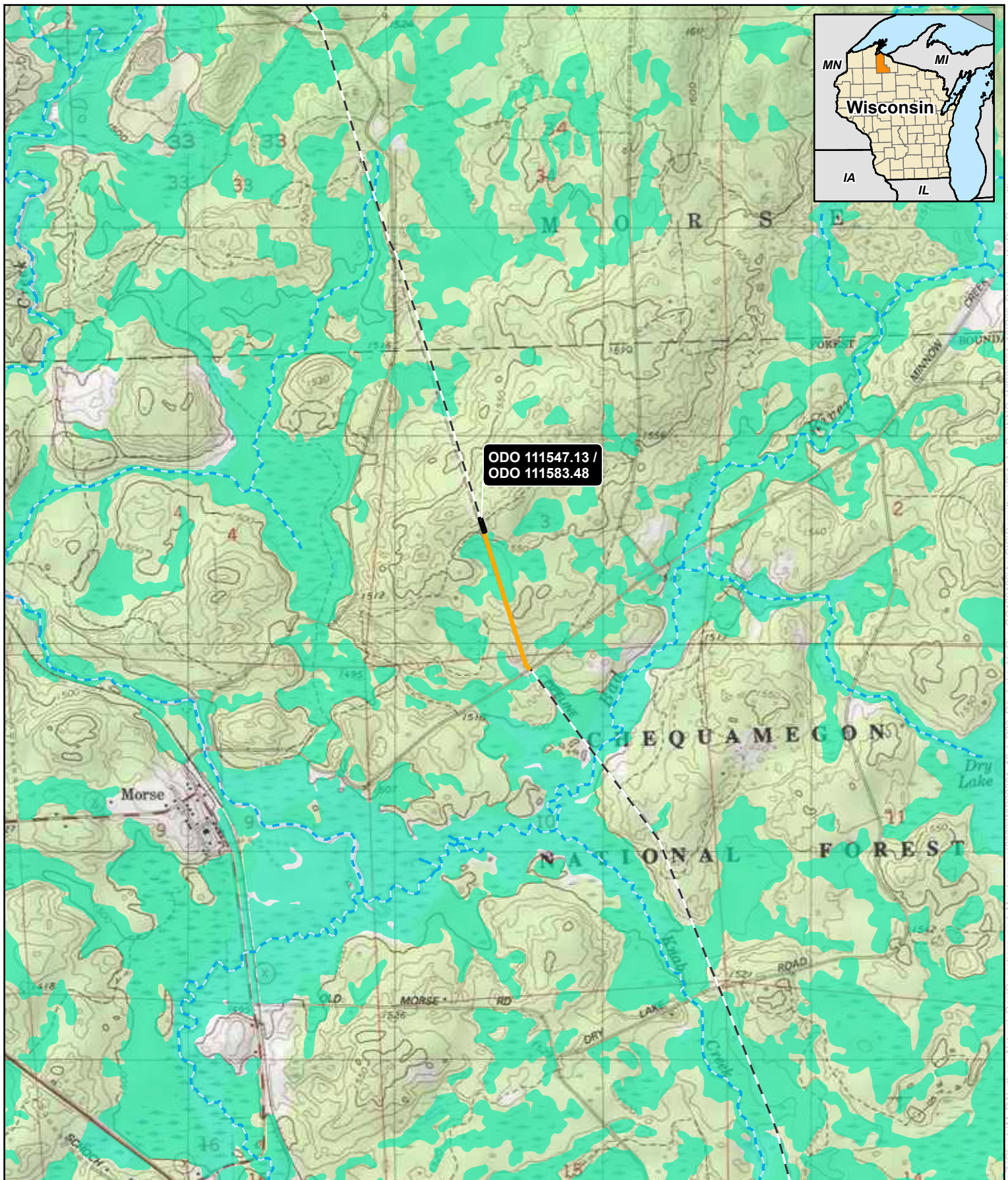
Ashland County

Iron County



Group 13





ODO 111547.13 /  
ODO 111583.48

0 1,000 2,000  
Feet

1:24,000



**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 111547.13 / 111583.48**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline

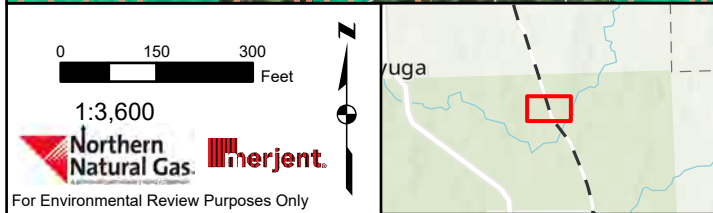
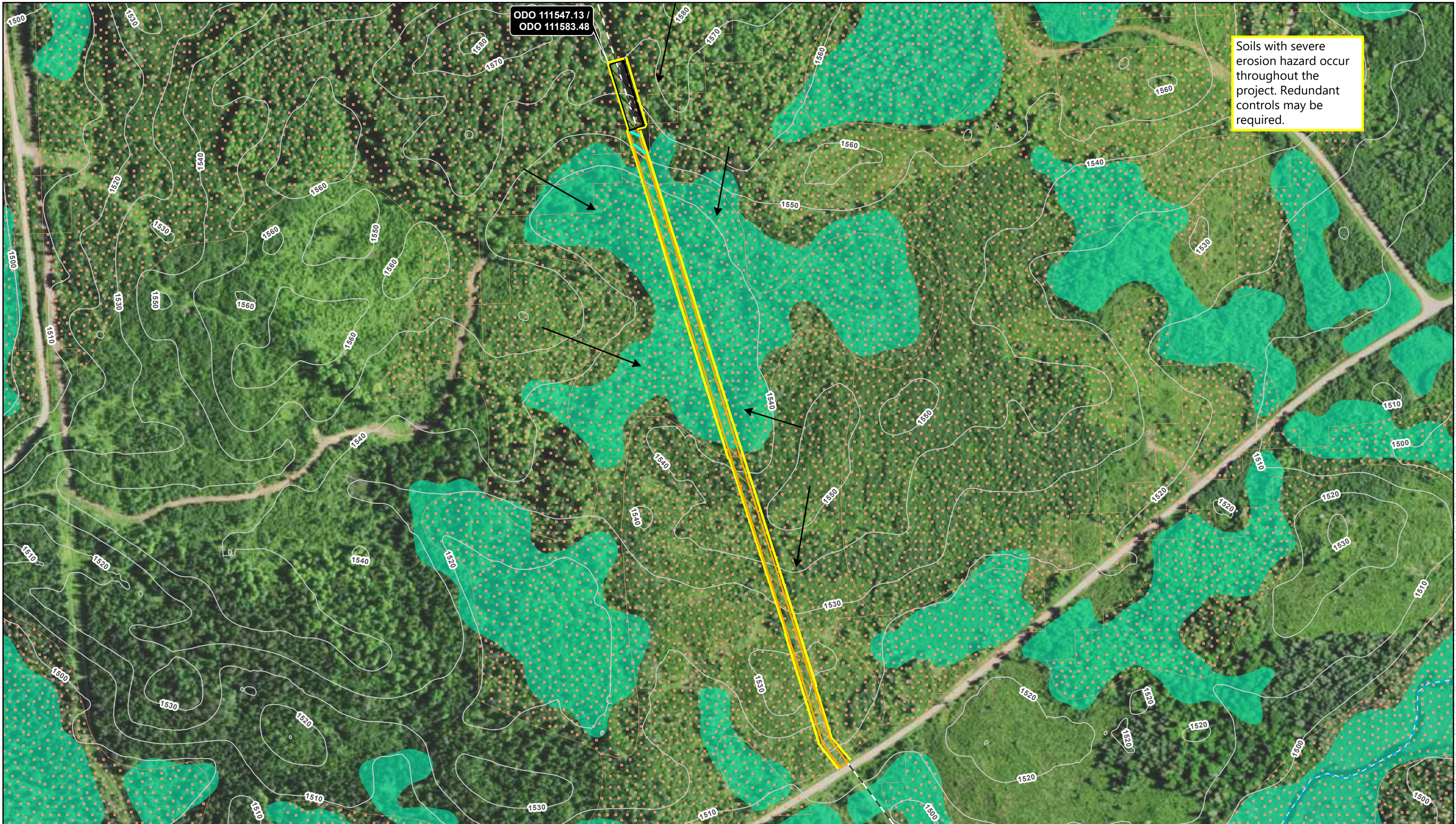
Temporary  
Workspace

Access Road

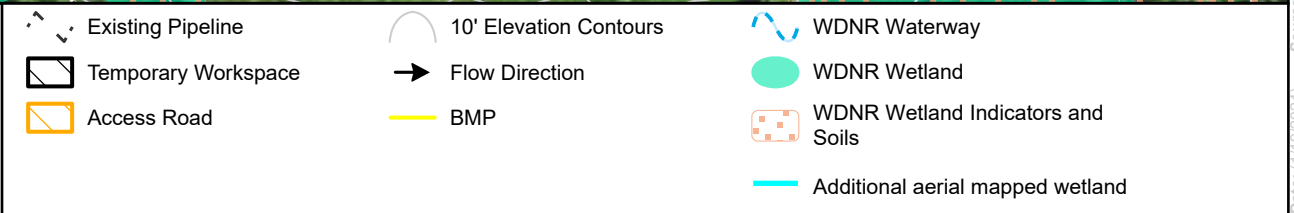
WDNR Waterway

WDNR Wetland





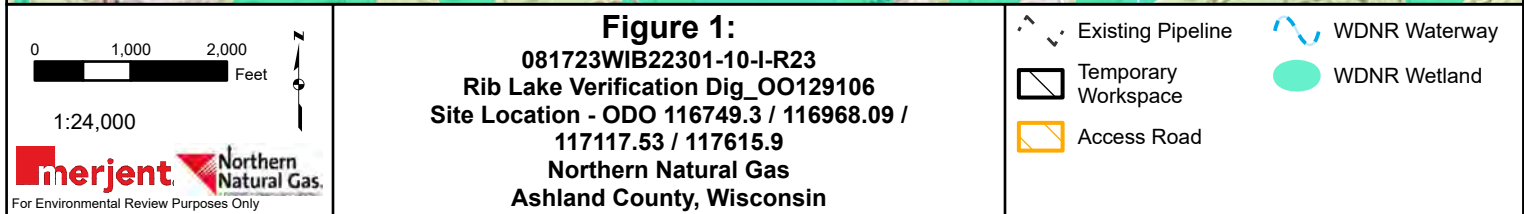
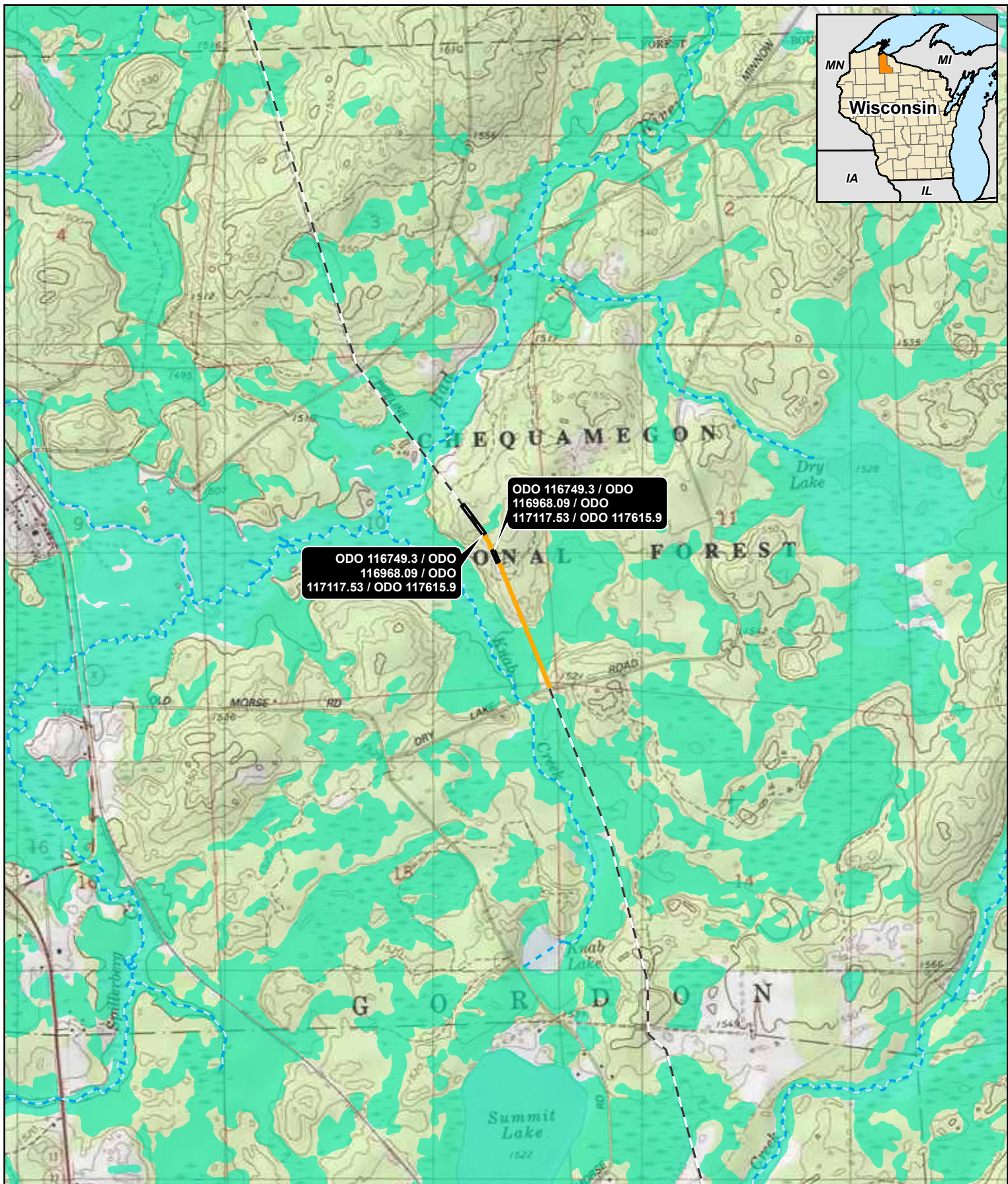
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 111547.13 / 111583.48**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**



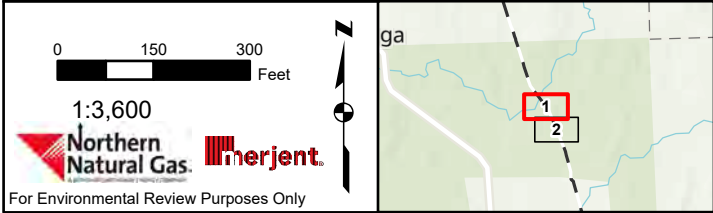
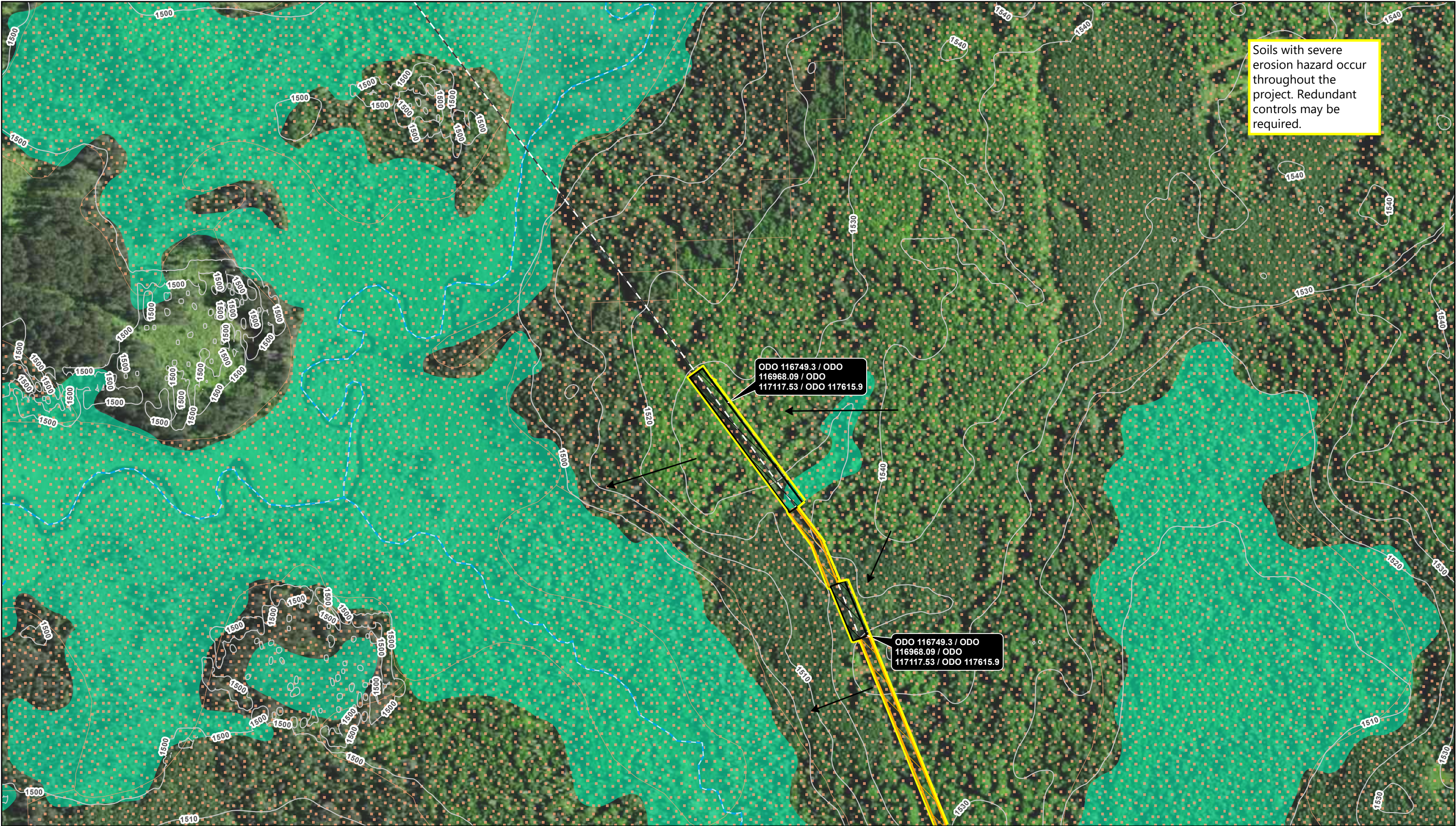


Group 14







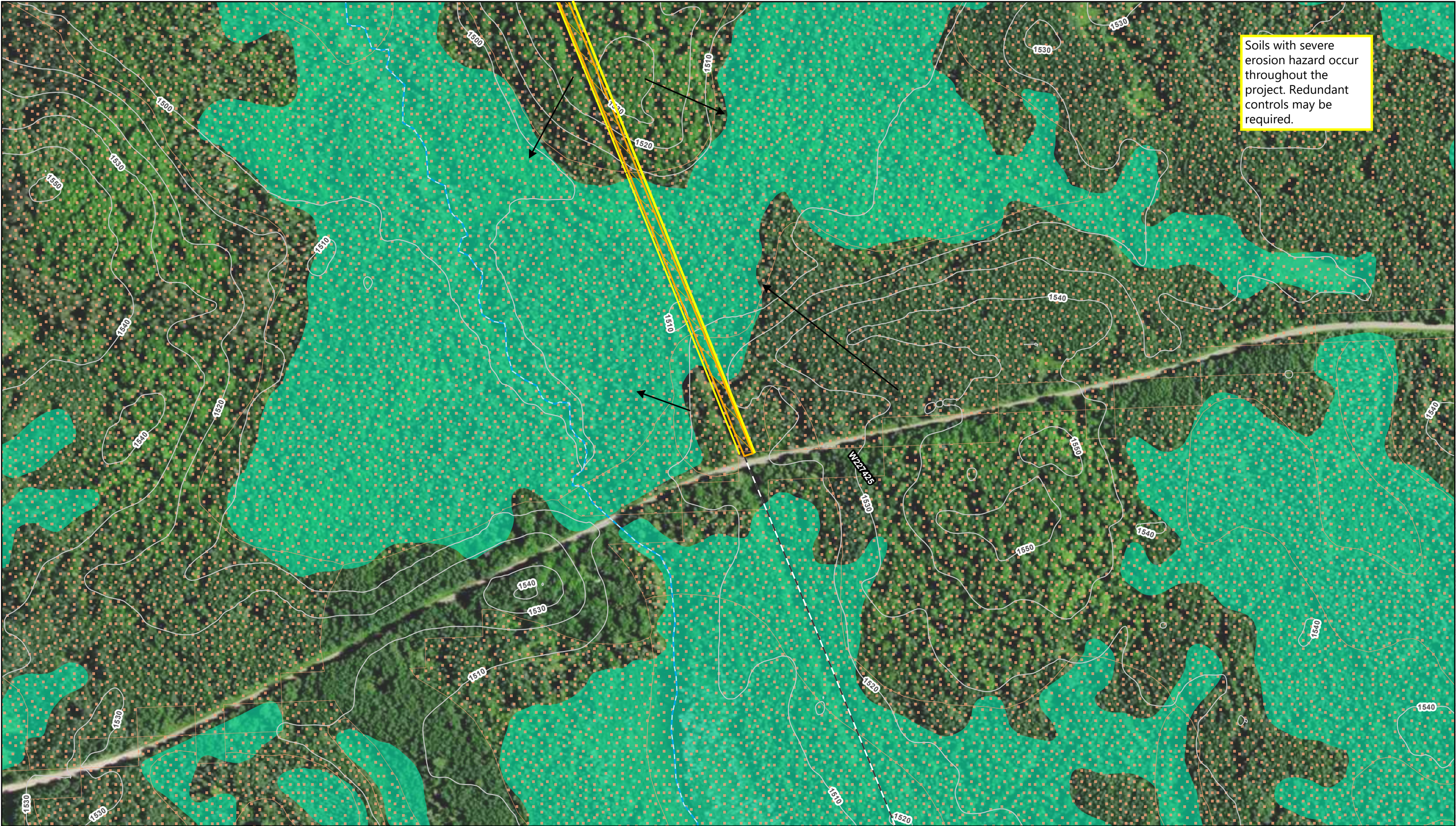


Page 1 of 2

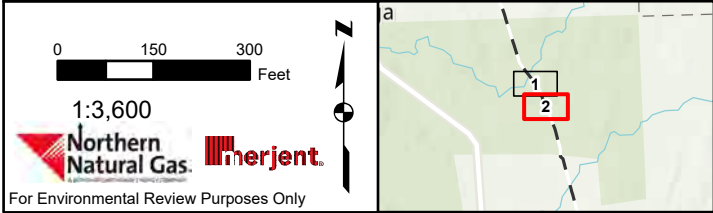
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 116749.3 / 116968.09 / 117117.53 / 117615.9**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





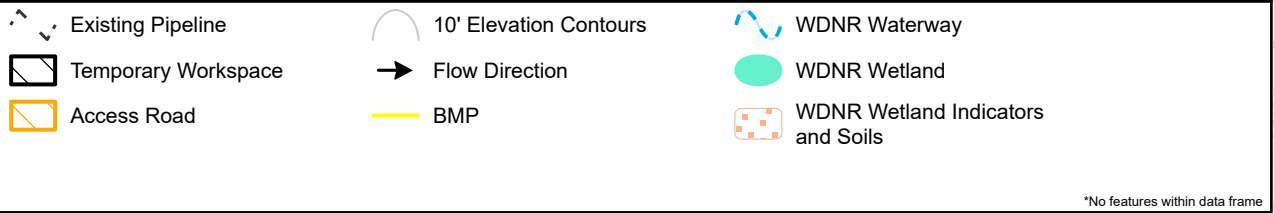


Soils with severe erosion hazard occur throughout the project. Redundant controls may be required.



Page 2 of 2

**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 116749.3 / 116968.09 / 117117.53 / 117615.9**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**



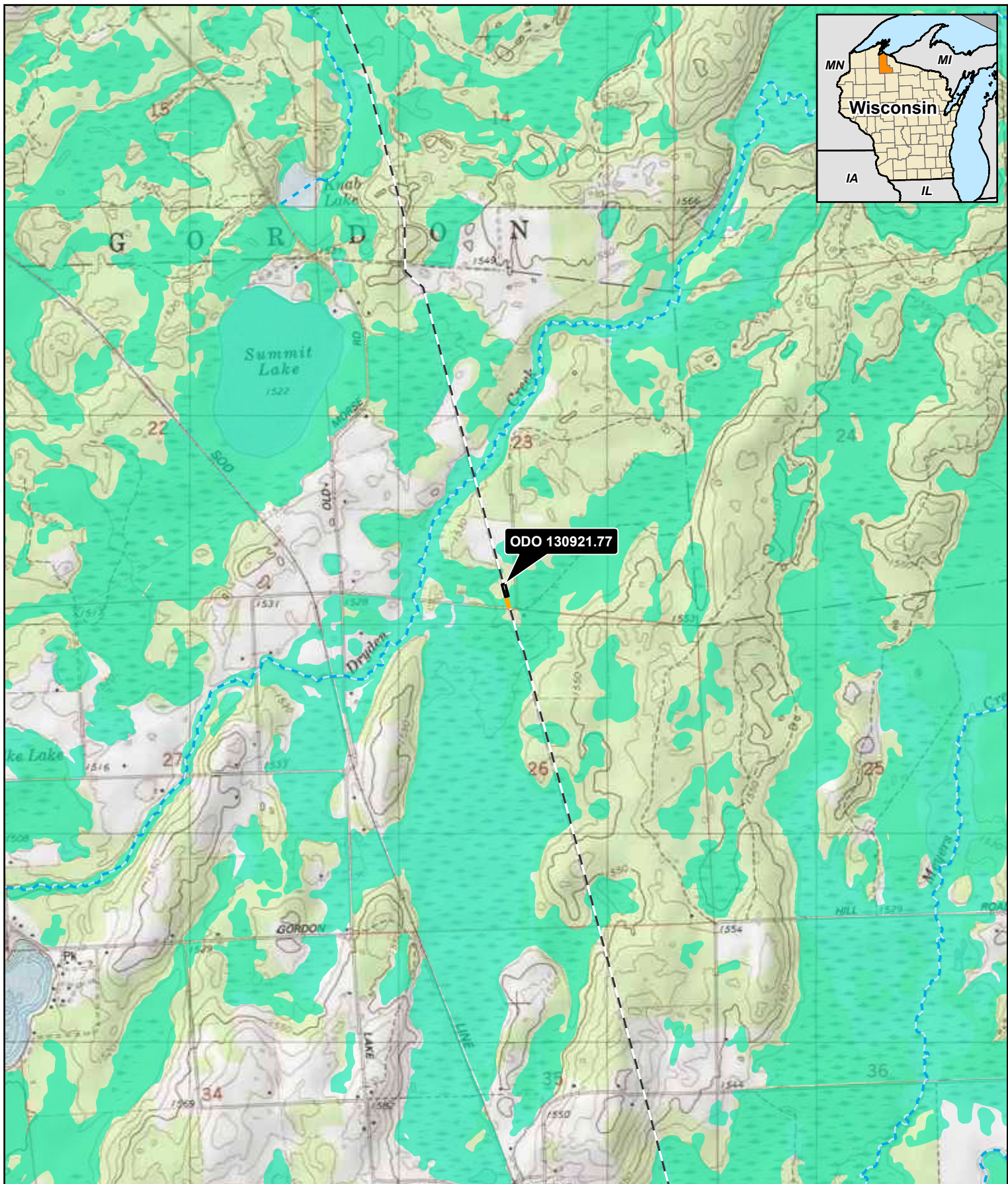
Source: Z:\Clients\WLP\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\WIB22301\_10\_I\_R23\_Rib\_Lake\_verification\_OO129106\ArcGIS-Permitting\001\_ArcPro\NNG\_WIB22301\_10\_I\_R23\_Rib\_Lake\_verification.aprx  
Date: (1/19/2024)

\*No features within data frame



Group 16





0 1,000 2,000 Feet

1:24,000

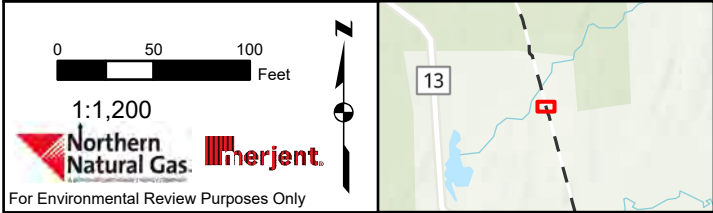
**merjent** Northern Natural Gas

For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 130921.77**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline	WDNR Waterway
Temporary Workspace	WDNR Wetland
Access Road	





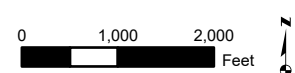
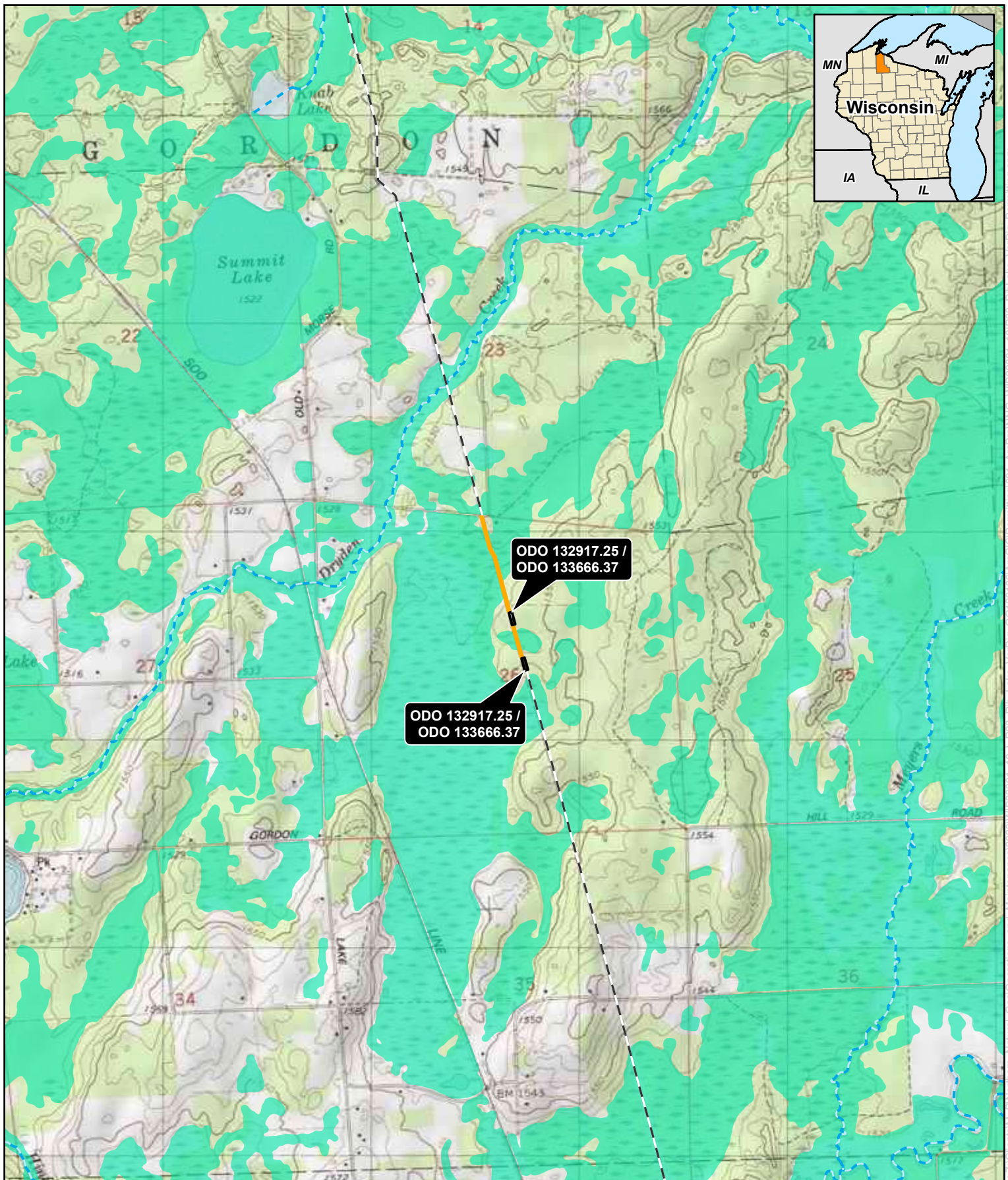
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 130921.77**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





Group 17





1:24,000



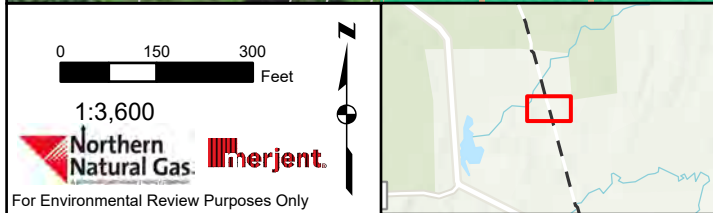
For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 132917.25 / 133666.37**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

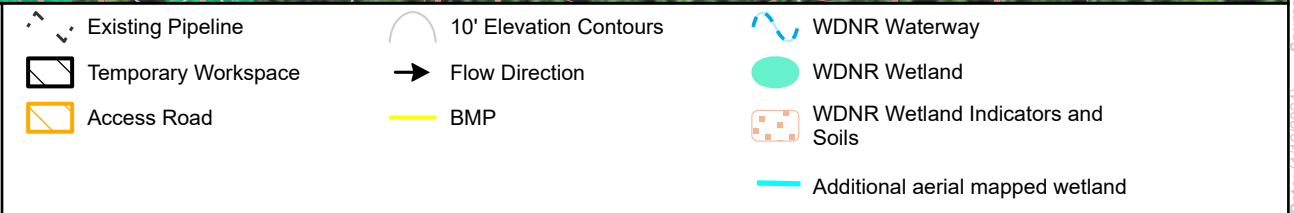
- Existing Pipeline
- WDNR Waterway
- Temporary Workspace
- Access Road
- WDNR Wetland

Source: 2: Clients\W\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\WIB22301-10-I-R23\_Rib\_Lake\_Verifig\_OO129106\ACGIS\Permitting\001\_AcfrONNG\_WIB22301-10-I-R23\_RibLake\_Verifig.aprx Date: (1/19/2024)





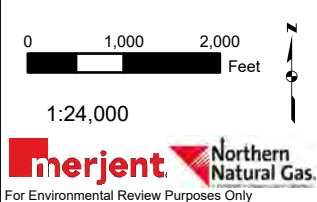
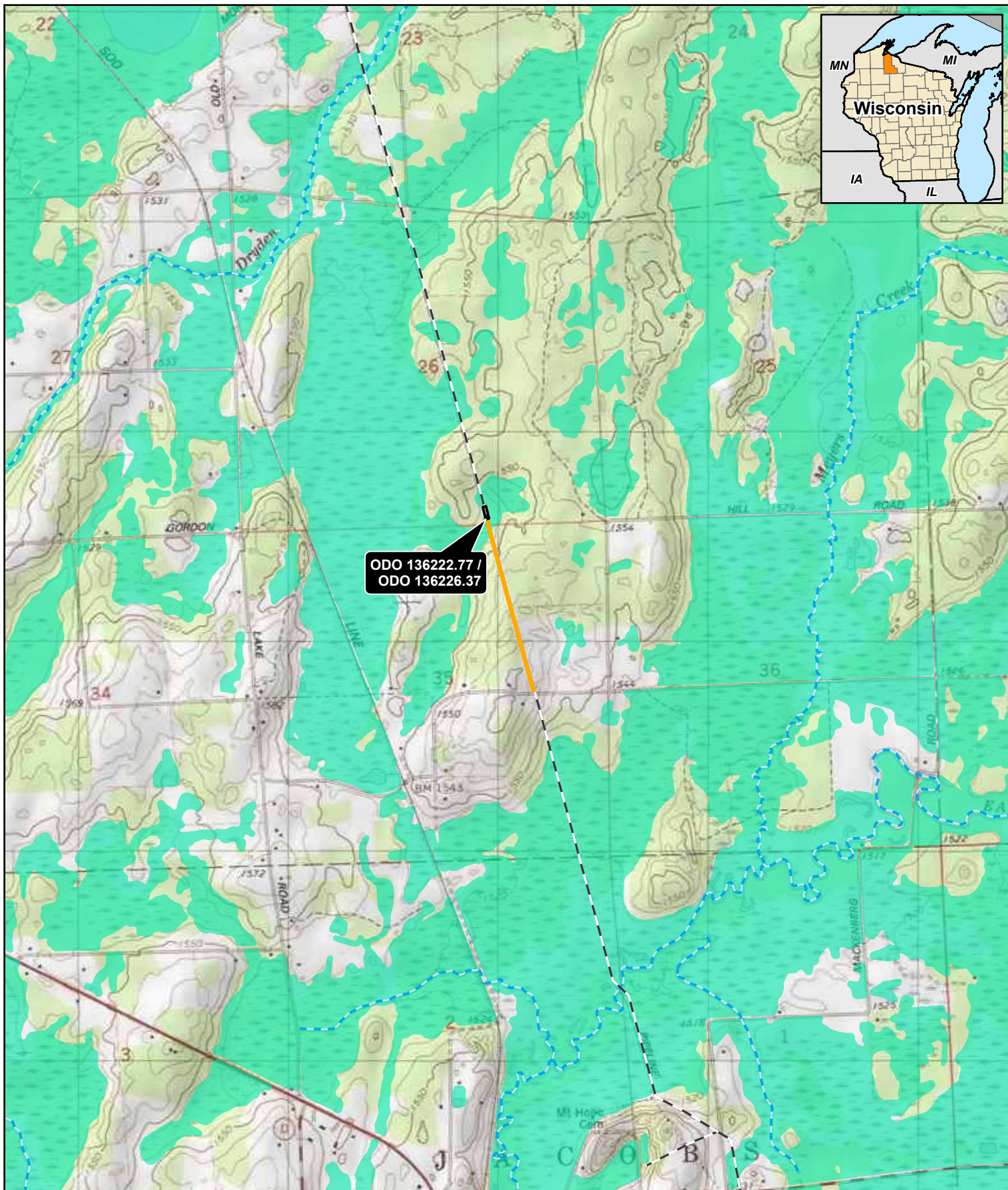
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 132917.25 / 133666.37**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





Group 18





**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 136222.77 / 136226.37**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

- Existing Pipeline
- Temporary Workspace
- Access Road
- WDNR Waterway
- WDNR Wetland





Soils with severe erosion hazard occur throughout the project. Redundant controls may be required.

ODO 136222.77 /  
ODO 136226.37

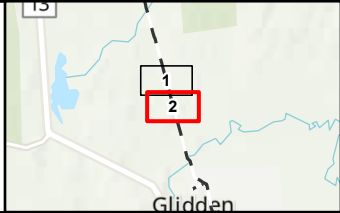
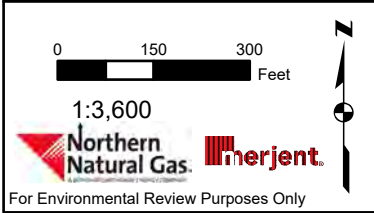
Hill Rd

**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 136222.77 / 136226.37**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**



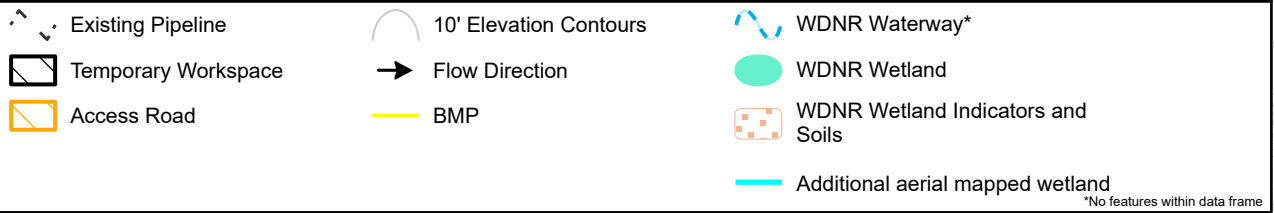


Soils with severe erosion hazard occur throughout the project. Redundant controls may be required.



Page 2 of 2

**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 136222.77 / 136226.37**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

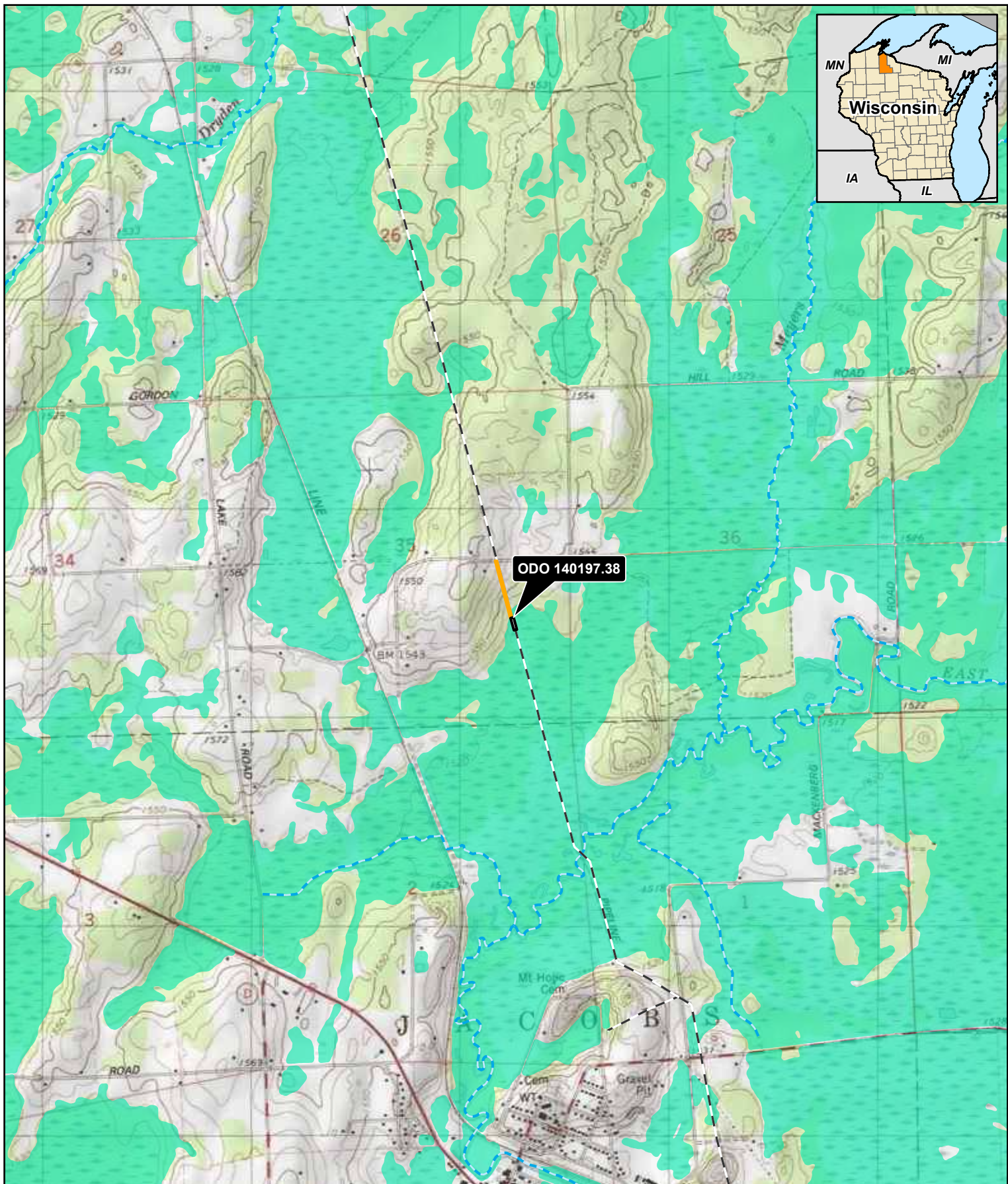


Source: Z:\Clients\MLP\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\WIB22301\_10\_I\_R23\_Rib\_Lake\_VerDig\_OO129106\ArcGISPro\Map\_Series\1017192024.aprx



Group 19





0 1,000 2,000 Feet

1:24,000

**merjent** Northern Natural Gas

For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 140197.38**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline

Temporary Workspace

Access Road

WDNR Waterway

WDNR Wetland

Source: 2: Clients\MI\_F\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\WIB22301-10-I-R23\_Rib\_Lake\_Verifig\_OO129106\ACGIS\SR\permitting\001\_Arch\ONNG\_WIB22301-10-I-R23\_RibLake\_verifig\_permitting.aprx Date: (1/19/2024)





0 100 200 Feet

1:2,400

**Northern Natural Gas** **Herjent**

For Environmental Review Purposes Only



**Figure 2:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Plan - ODO 140197.38**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline	10' Elevation Contours	WDNR Waterway*
Temporary Workspace	Flow Direction	WDNR Wetland
Access Road	BMP	WDNR Wetland Indicators and Soils

\*No features within data frame

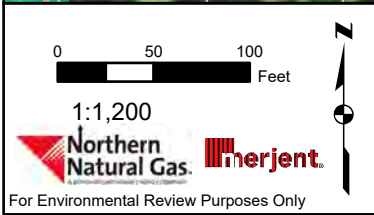


Group 20

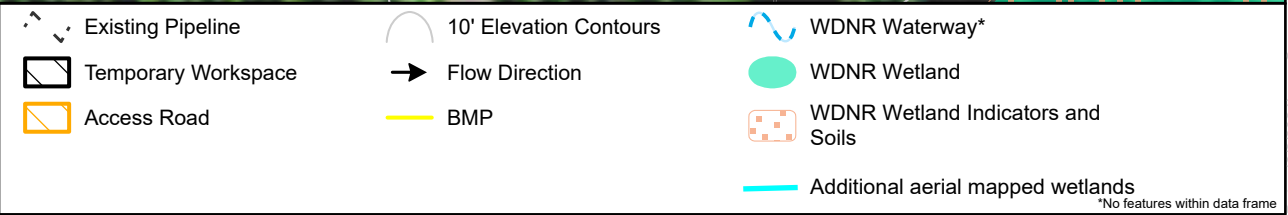








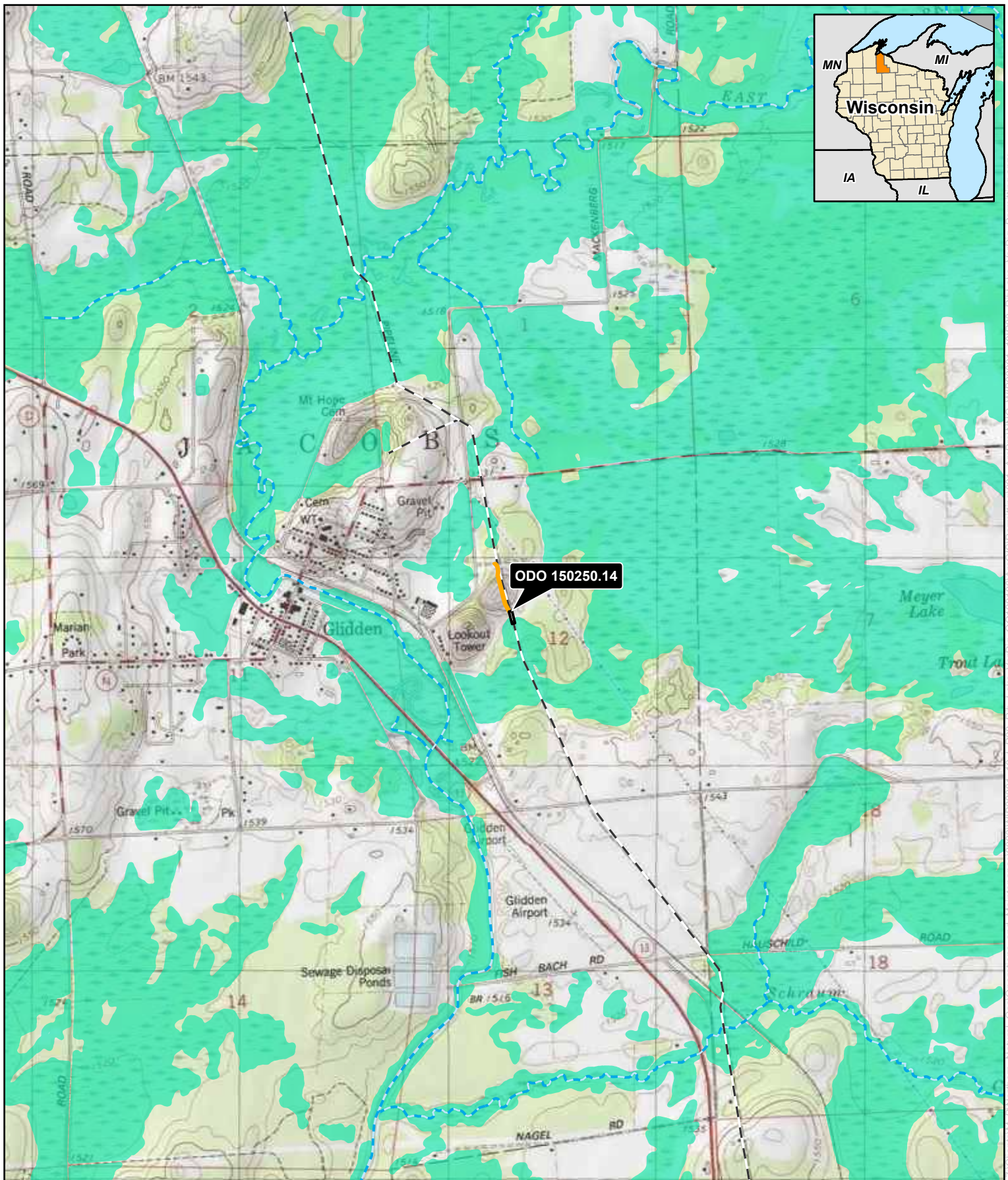
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO146282.64 / 146303.94**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





Group 21





0 1,000 2,000 Feet

1:24,000

**merjent** Northern Natural Gas

For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 150250.14**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline	WDNR Waterway
Temporary Workspace	WDNR Wetland
Access Road	

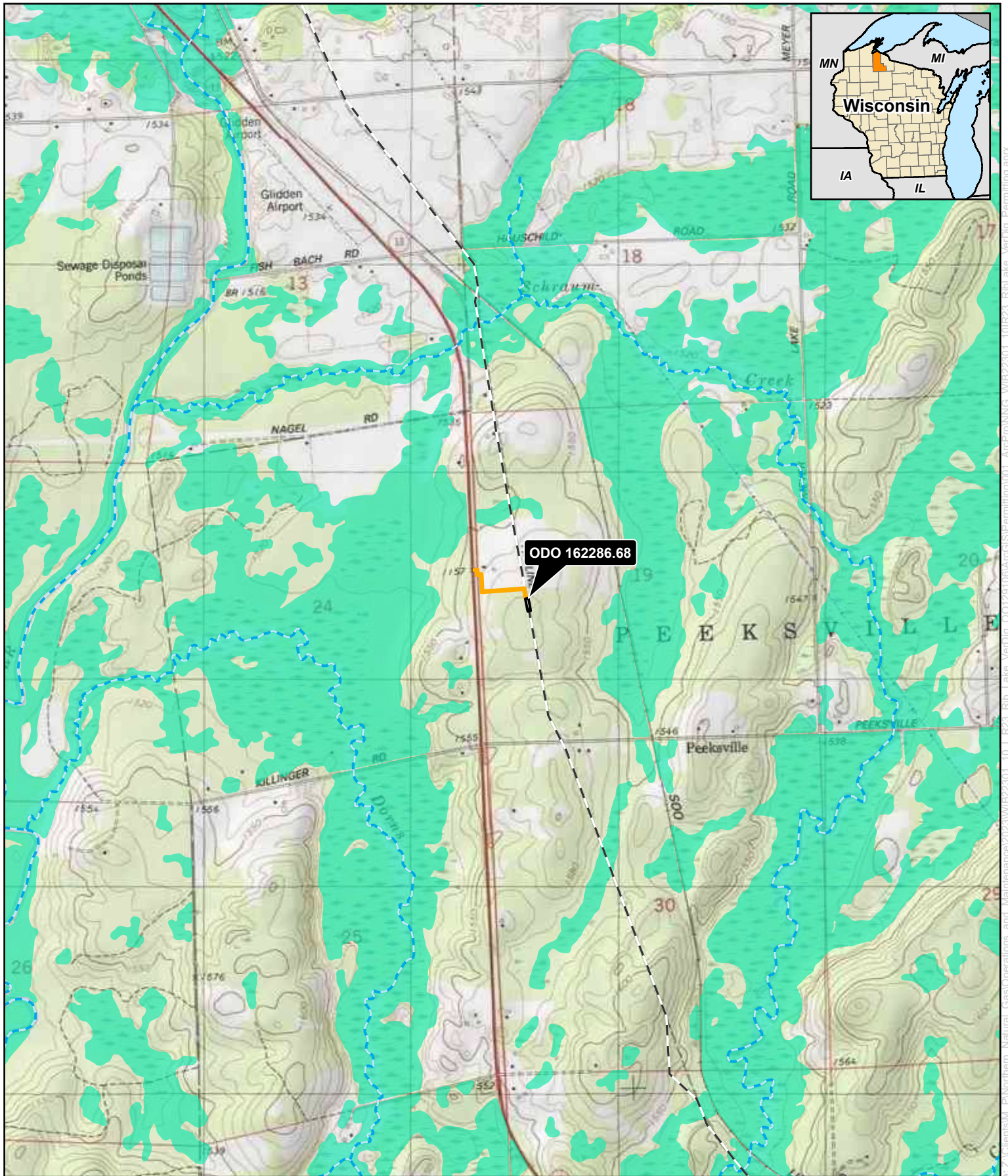






Group 26





0 1,000 2,000 Feet

1:24,000

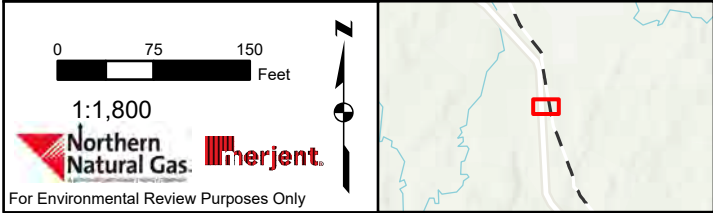
**merjent** Northern Natural Gas

For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 162286.68**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline	WDNR Waterway
Temporary Workspace	WDNR Wetland
Access Road	





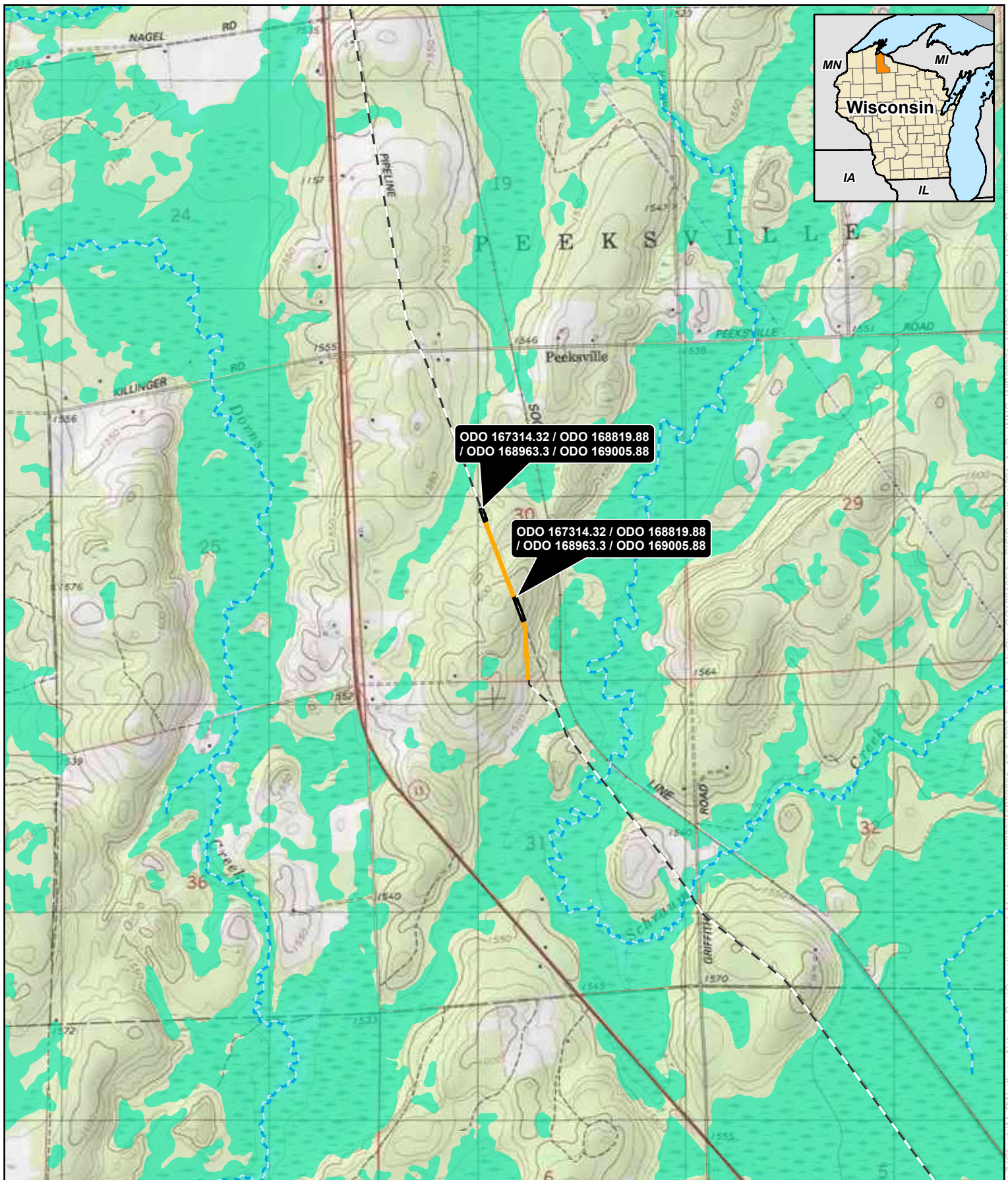
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 162286.68**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





Group 28





**Figure 1:**

081723WIB22301-10-I-R23  
 Rib Lake Verification Dig\_OO129106  
 Site Location - ODO 167314.32 / 168819.88 /  
 168841.97/ 168963.3 / 169005.88  
 Northern Natural Gas  
 Ashland County, Wisconsin

0 1,000 2,000  
 Feet

1:24,000

**merjent** Northern Natural Gas  
 For Environmental Review Purposes Only

Existing Pipeline

Temporary Workspace

Access Road

WDNR Waterway

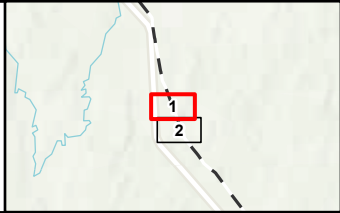
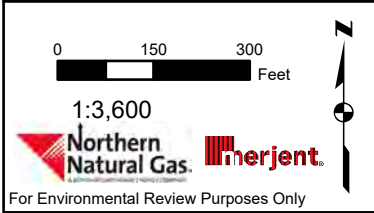
WDNR Wetland





Soils with severe erosion hazard occur throughout the project. Redundant controls may be required.

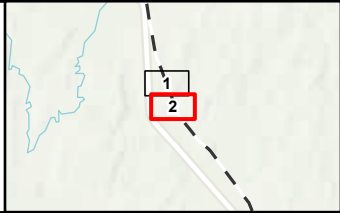
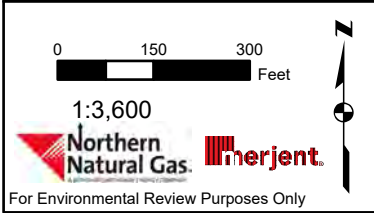
ODO 167314.32 / ODO 168819.88  
/ ODO 168963.3 / ODO 169005.88



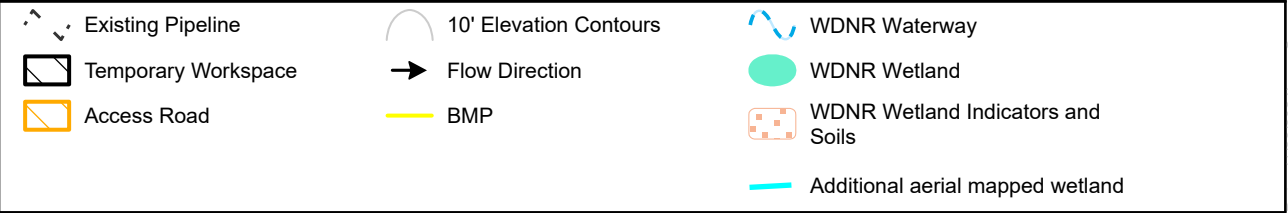
**Figure 2:**  
081723WIB22301-10-I-R23 Rib Lake  
Verification Dig\_OO129106  
Site Plan - ODO 167314.32 / 168819.88 /  
168841.97/ 168963.3 / 169005.88  
Northern Natural Gas  
Ashland County, Wisconsin

- |                     |                        |                                   |
|---------------------|------------------------|-----------------------------------|
| Existing Pipeline   | 10' Elevation Contours | WDNR Waterway                     |
| Temporary Workspace | Flow Direction         | WDNR Wetland                      |
| Access Road         | BMP                    | WDNR Wetland Indicators and Soils |
|                     |                        | Additional aerial mapped wetland  |





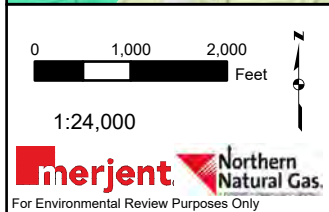
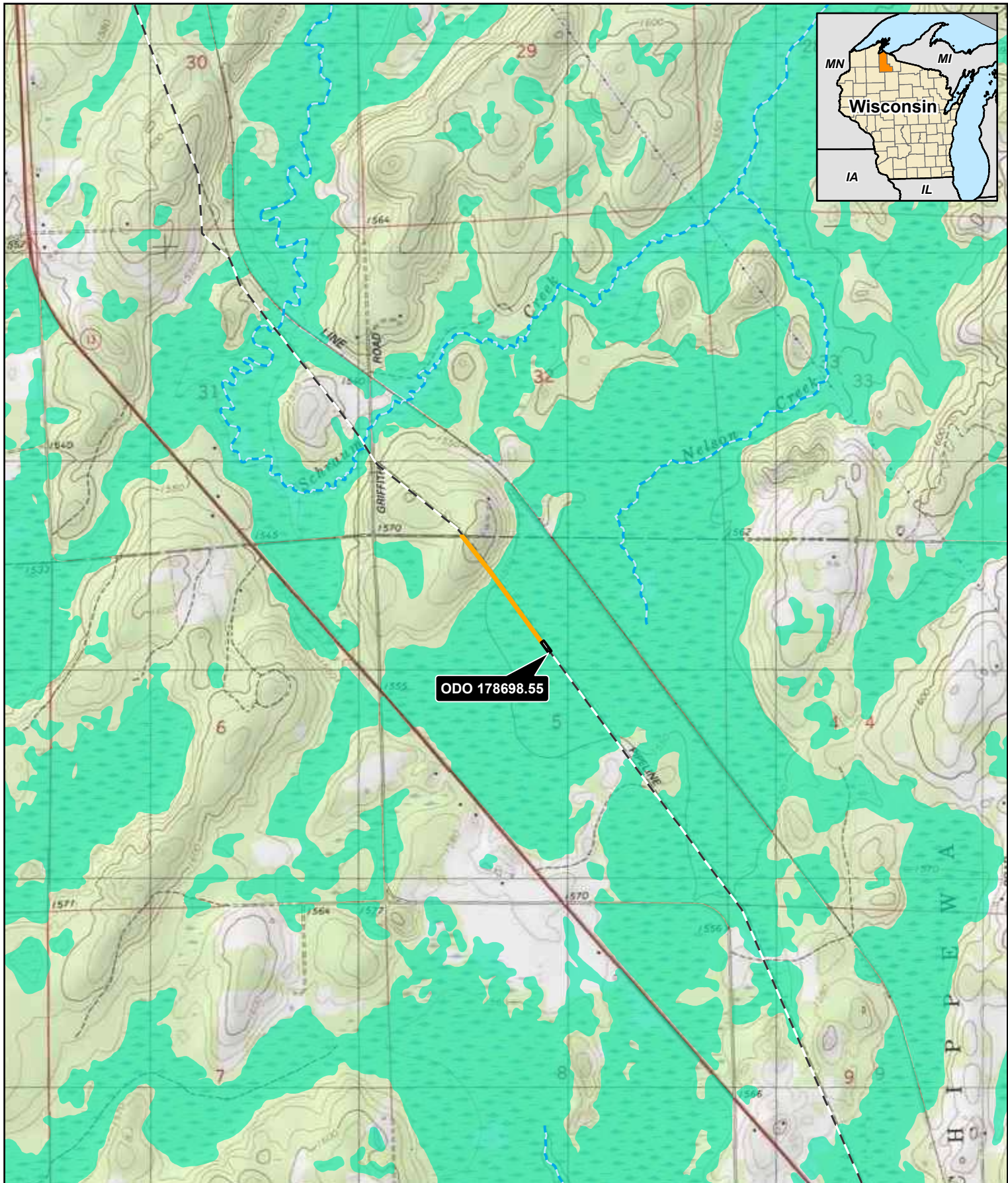
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 167314.32 / 168819.88 /**  
**168841.97/ 168963.3 / 169005.88**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





Group 30

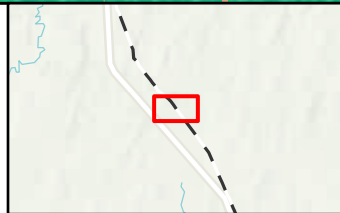
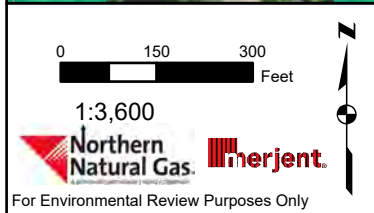




**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 178698.55**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

- Existing Pipeline
- Temporary Workspace
- Access Road
- WDNR Waterway
- WDNR Wetland





**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 178698.55**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

- |                     |                        |                                   |
|---------------------|------------------------|-----------------------------------|
| Existing Pipeline   | 10' Elevation Contours | WDNR Waterway                     |
| Temporary Workspace | Flow Direction         | WDNR Wetland                      |
| Access Road         | BMP                    | WDNR Wetland Indicators and Soils |
|                     |                        | Additional aerial mapped wetland  |



Group 31









Soils with severe erosion hazard occur throughout the project. Redundant controls may be required.

ODO 186592.96 /  
ODO 186593.81



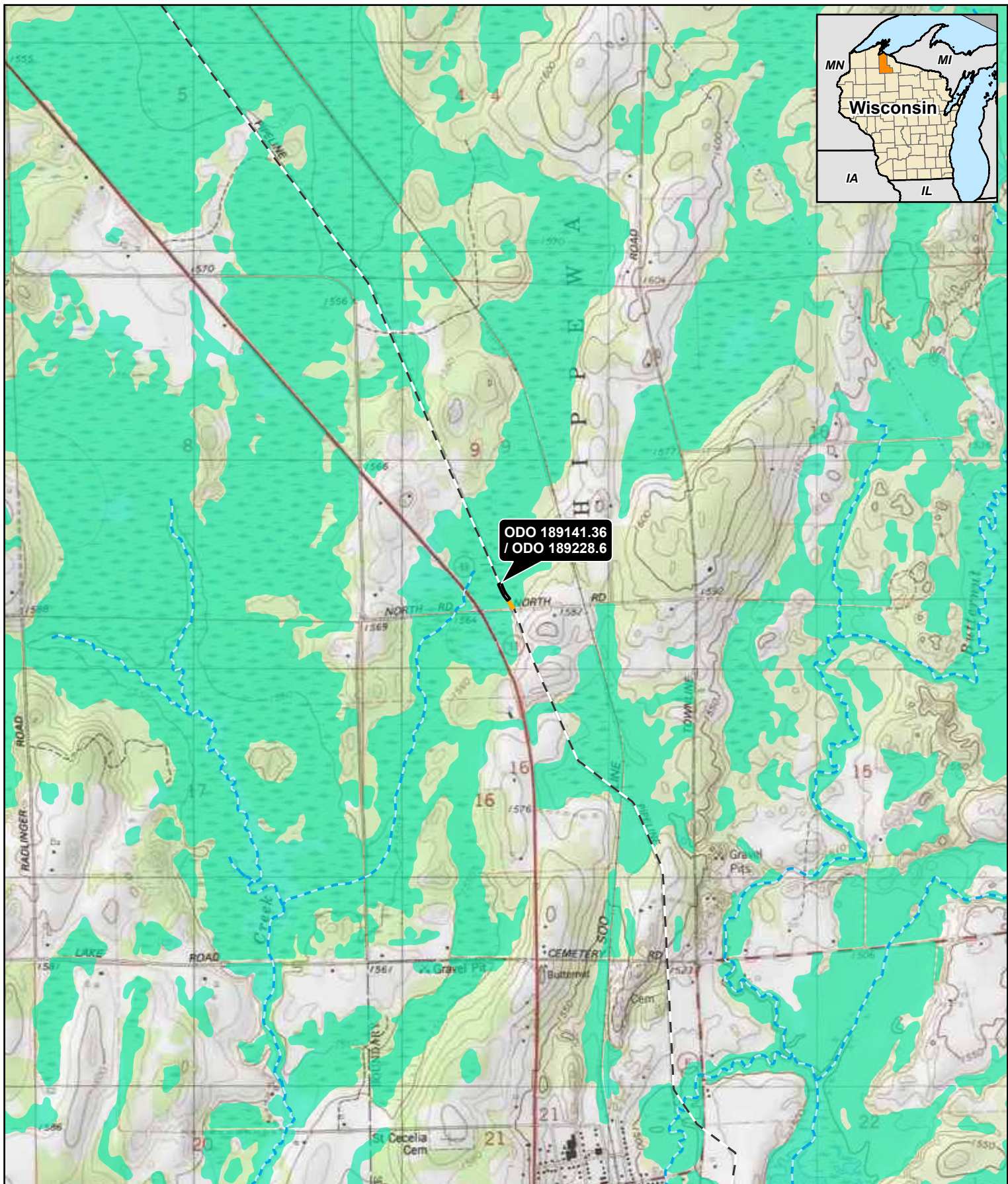
**Figure 2:**  
081723WIB22301-10-I-R23 Rib Lake  
Verification Dig\_OO129106  
Site Plan - ODO 186592.96 / 186593.81  
Northern Natural Gas  
Ashland County, Wisconsin

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>Existing Pipeline</li> <li>Temporary Workspace</li> <li>Access Road</li> </ul> | <ul style="list-style-type: none"> <li>10' Elevation Contours</li> <li>Flow Direction</li> <li>BMP</li> </ul> | <ul style="list-style-type: none"> <li>WDNR Waterway</li> <li>WDNR Wetland</li> <li>WDNR Wetland Indicators and Soils</li> <li>Additional aerial mapped wetland</li> </ul> |
|---|---|--|



Group 32





ODO 189141.36  
/ ODO 189228.6

0 1,000 2,000 Feet

1:24,000

**merjent** Northern Natural Gas

For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 189141.36 / 189228.6**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline	WDNR Waterway
Temporary Workspace	WDNR Wetland
Access Road	





0 50 100 Feet

1:1,200

**Northern Natural Gas**

**Merjent**

For Environmental Review Purposes Only



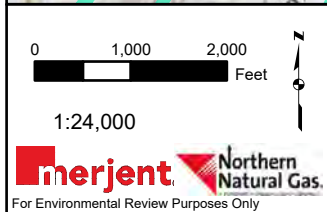
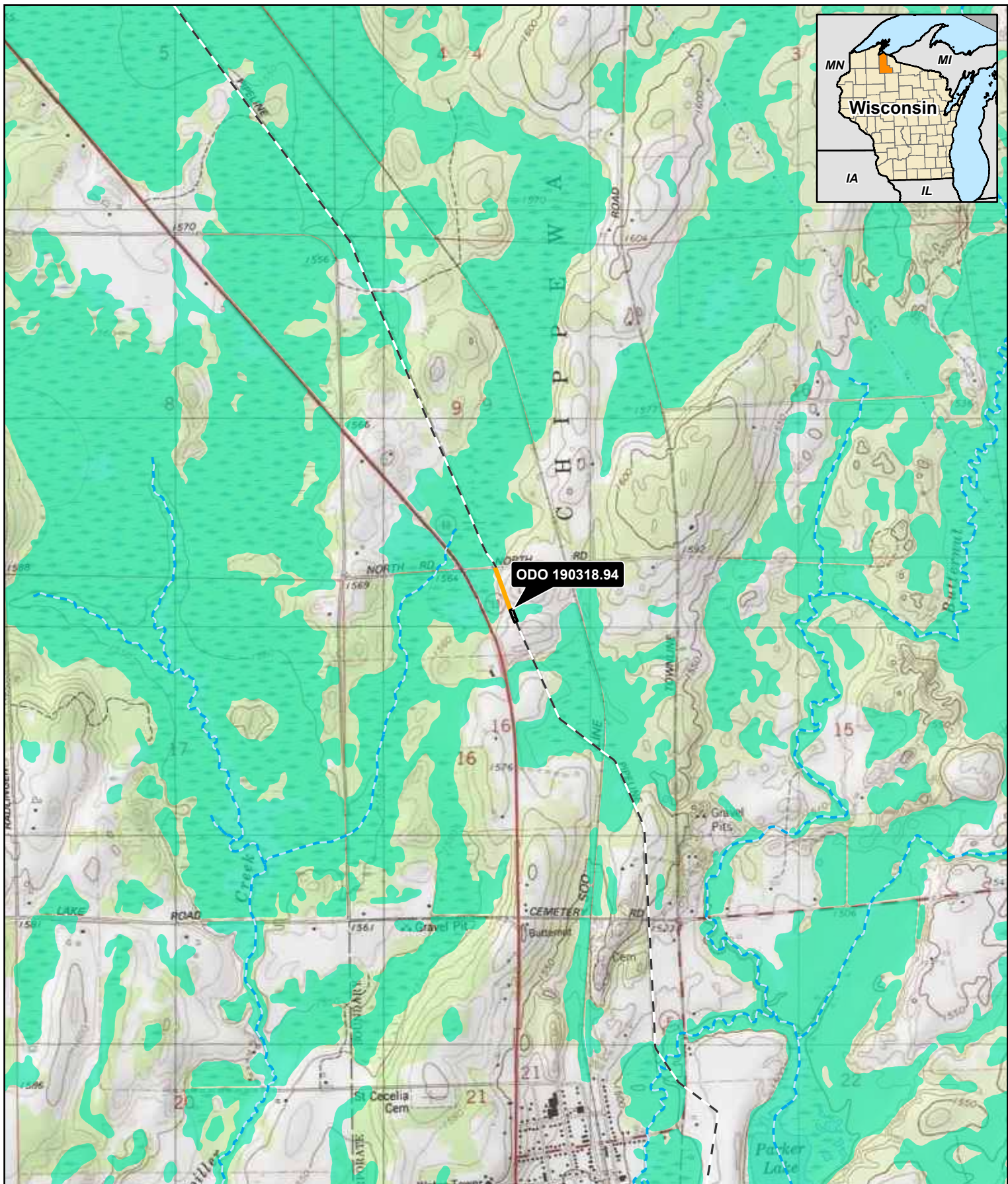
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 189141.36 / 189228.6**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline	10' Elevation Contours	WDNR Waterway
Temporary Workspace	Flow Direction	WDNR Wetland
Access Road	BMP	WDNR Wetland Indicators and Soils



Group 33





**Figure 1:**  
081723WIB22301-10-I-R23  
Rib Lake Verification Dig\_OO129106  
Site Location - ODO 190318.94  
Northern Natural Gas  
Ashland County, Wisconsin

- Existing Pipeline
- Temporary Workspace
- Access Road
- WDNR Waterway
- WDNR Wetland





075150

Feet

1:1,800

Northern Natural Gas

merjent.

For Environmental Review Purposes Only



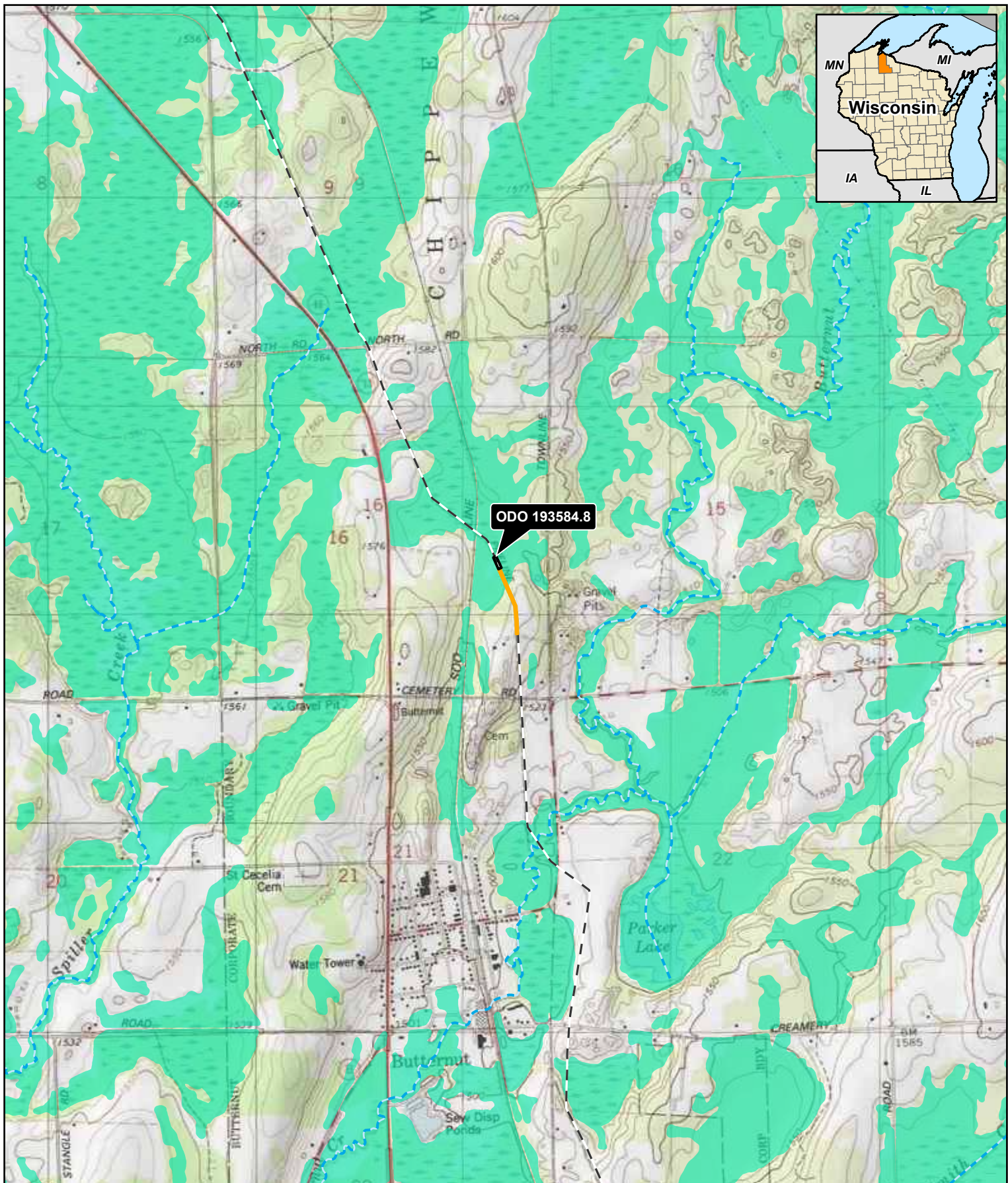
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 190318.94**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline	10' Elevation Contours	WDNR Waterway
Temporary Workspace	Flow Direction	WDNR Wetland
Access Road	BMP	WDNR Wetland Indicators and Soils



Group 34





0 1,000 2,000 Feet

1:24,000

**merjent** Northern Natural Gas

For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 193584.8**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline

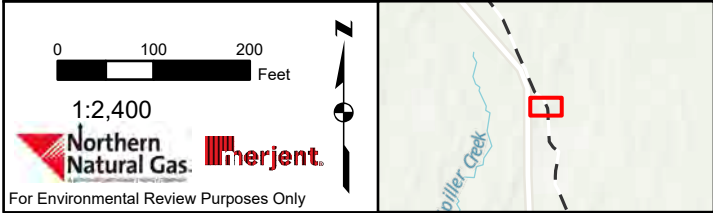
Temporary Workspace

Access Road

WDNR Waterway

WDNR Wetland





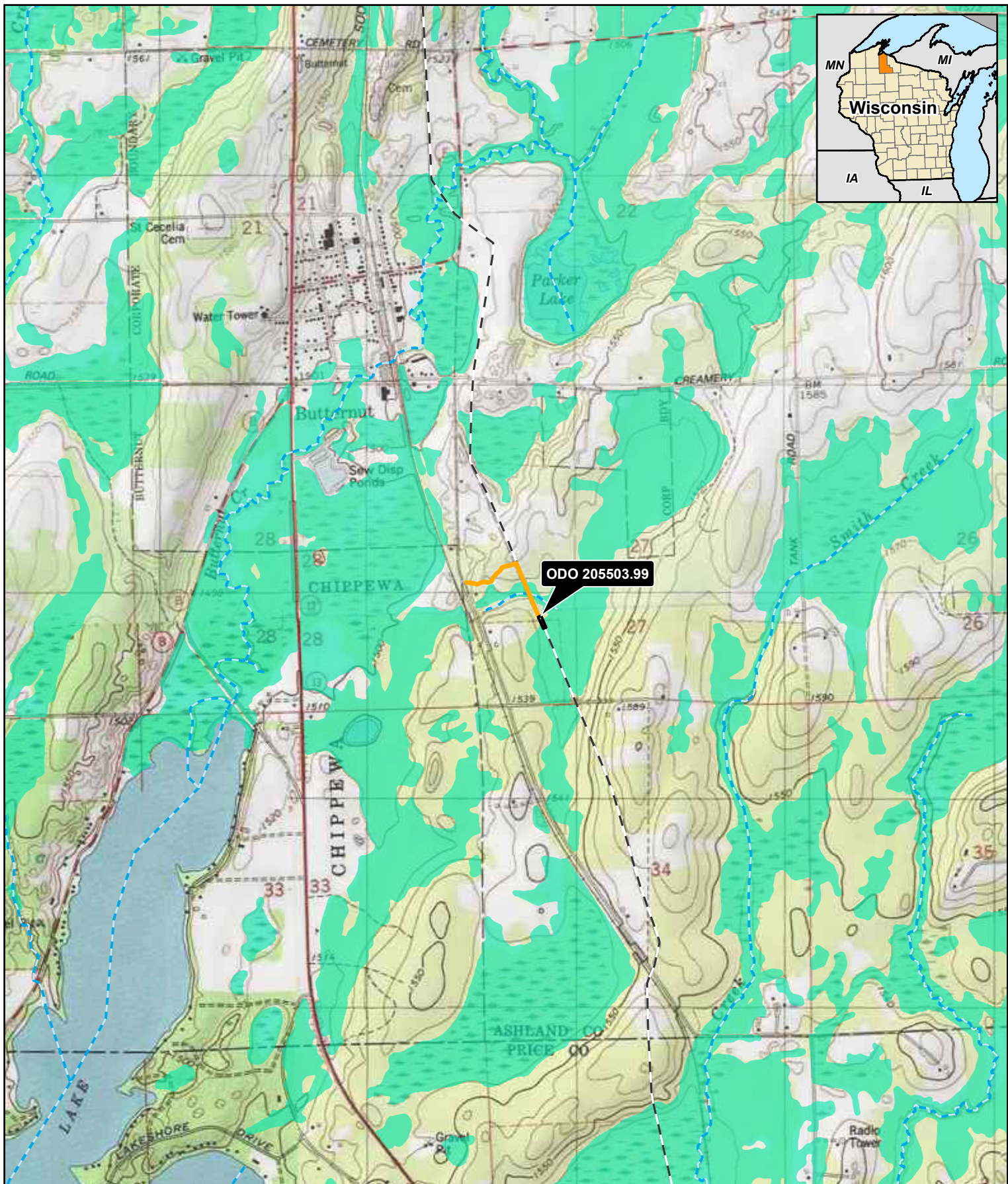
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 193584.8**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**





Group 37





0 1,000 2,000 Feet

1:24,000

**merjent** Northern Natural Gas

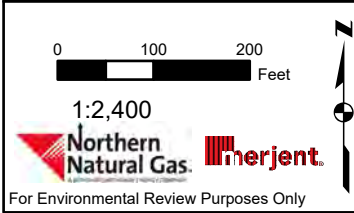
For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 205503.99**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**

Existing Pipeline	WDNR Waterway
Temporary Workspace	WDNR Wetland
Access Road	

Source: 1:24,000 Topographic Map, Wisconsin Department of Transportation, 2010. Date: 1/15/2024





**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 205503.99**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**



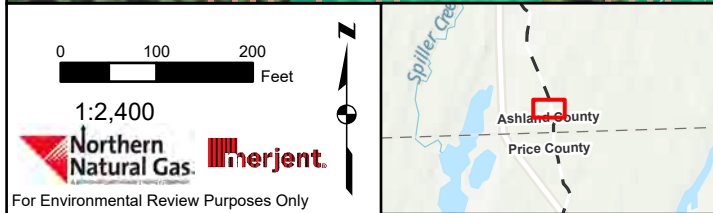
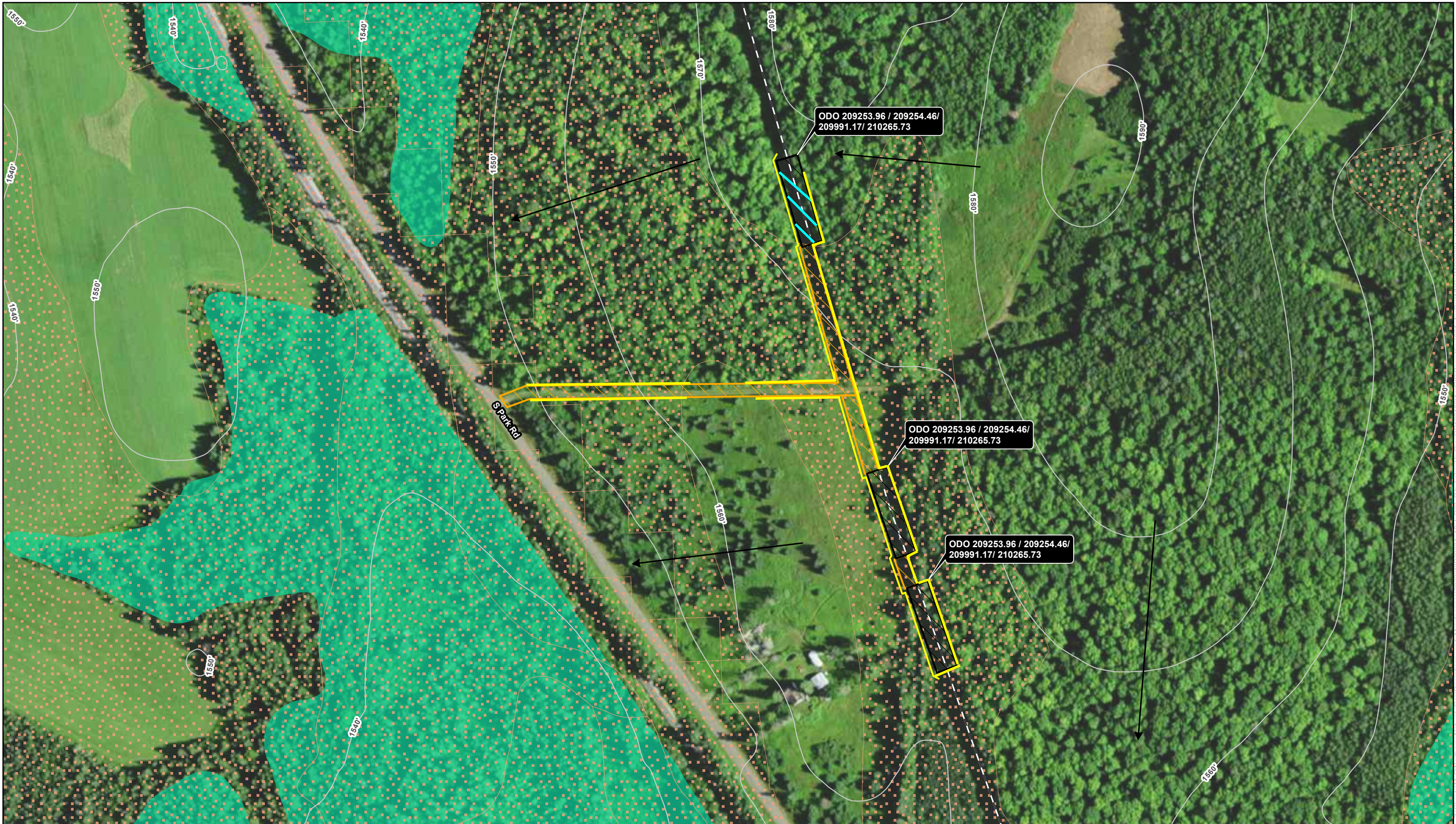


Group 38

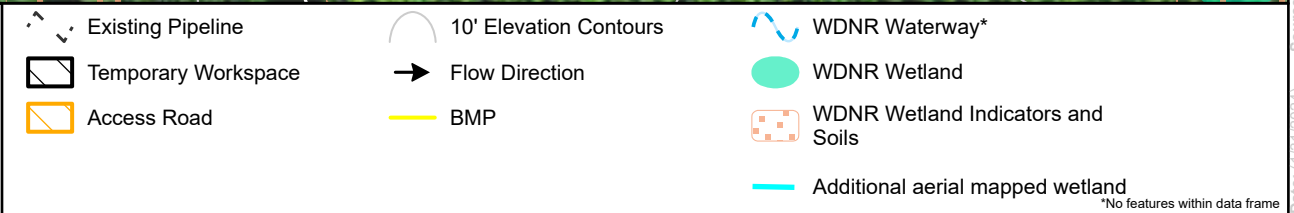








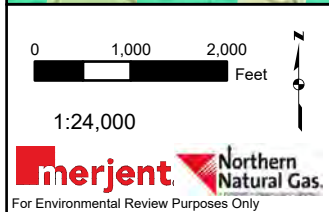
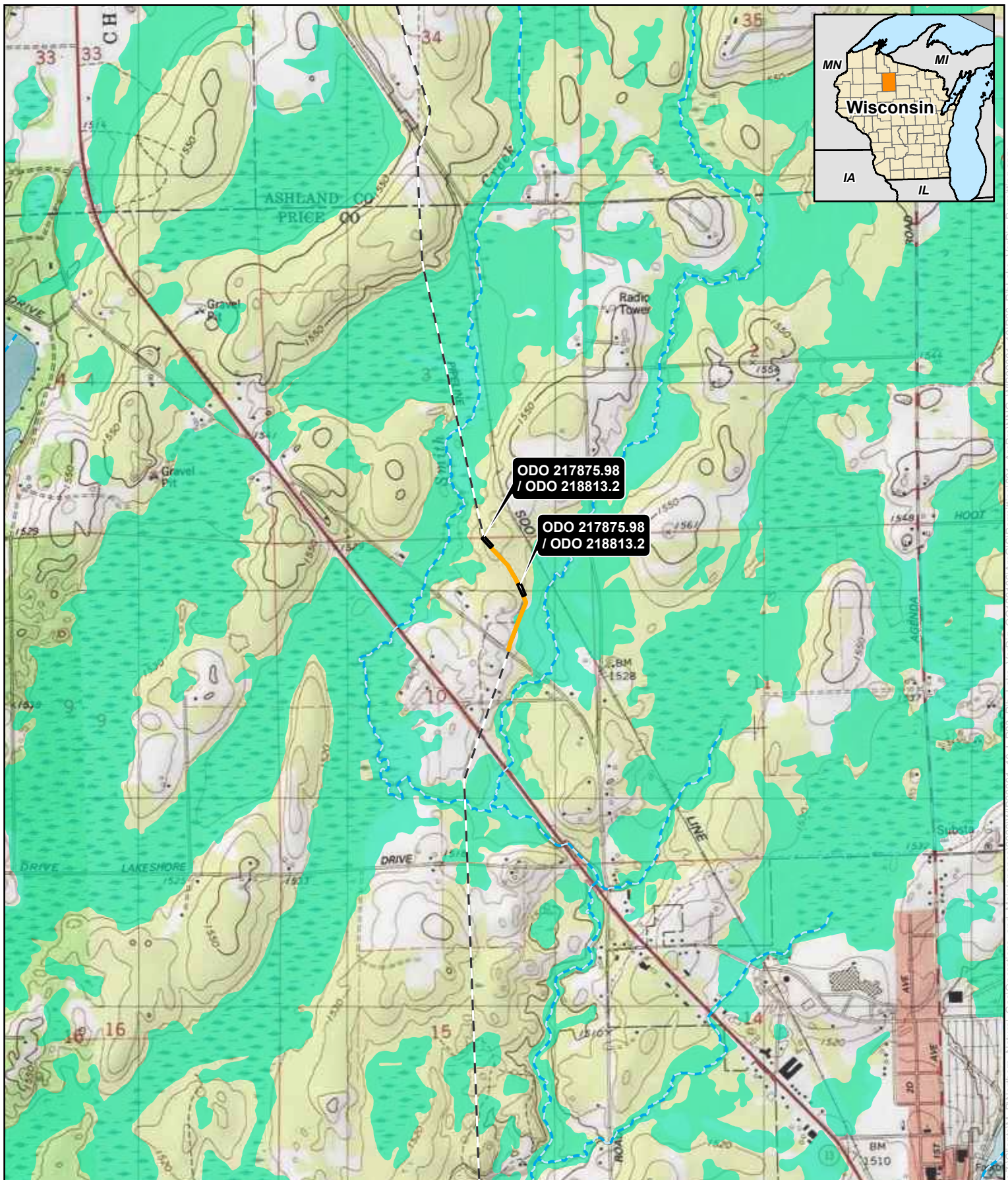
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 209253.96 / 209254.46 / 209991.17 / 210265.73**  
**Northern Natural Gas**  
**Ashland County, Wisconsin**



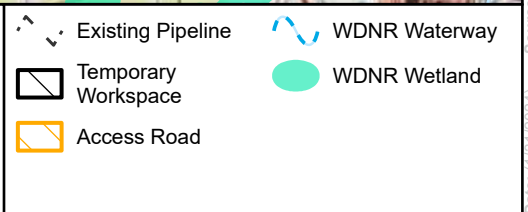


Group 39

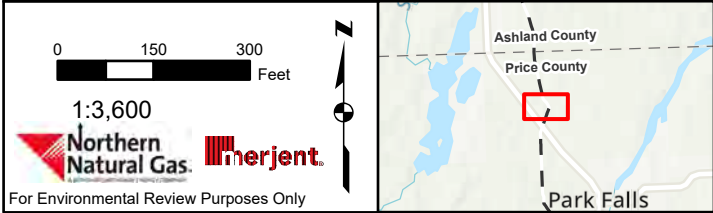
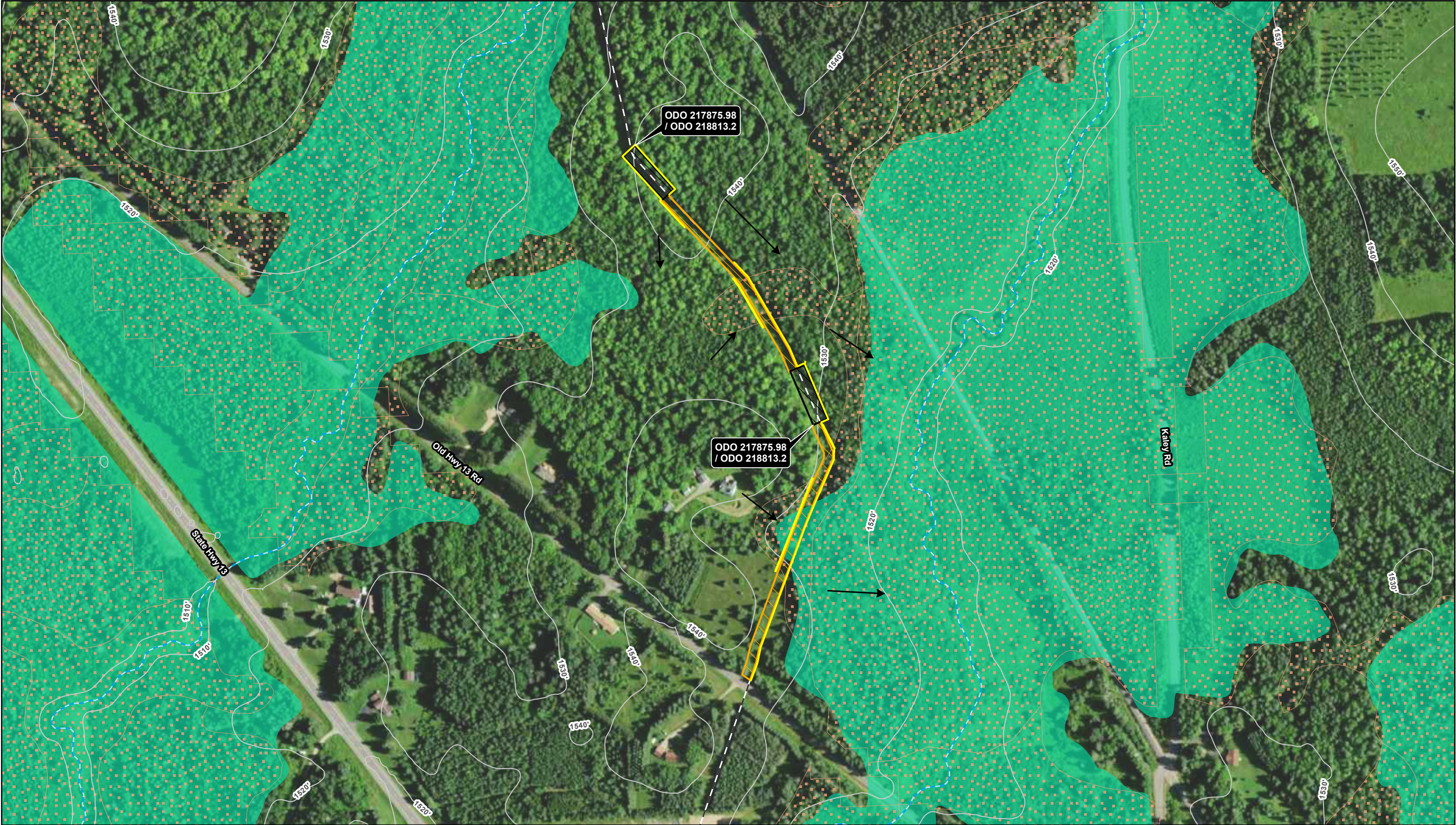




**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 217875.98 / 218813.2**  
**Northern Natural Gas**  
**Price County, Wisconsin**







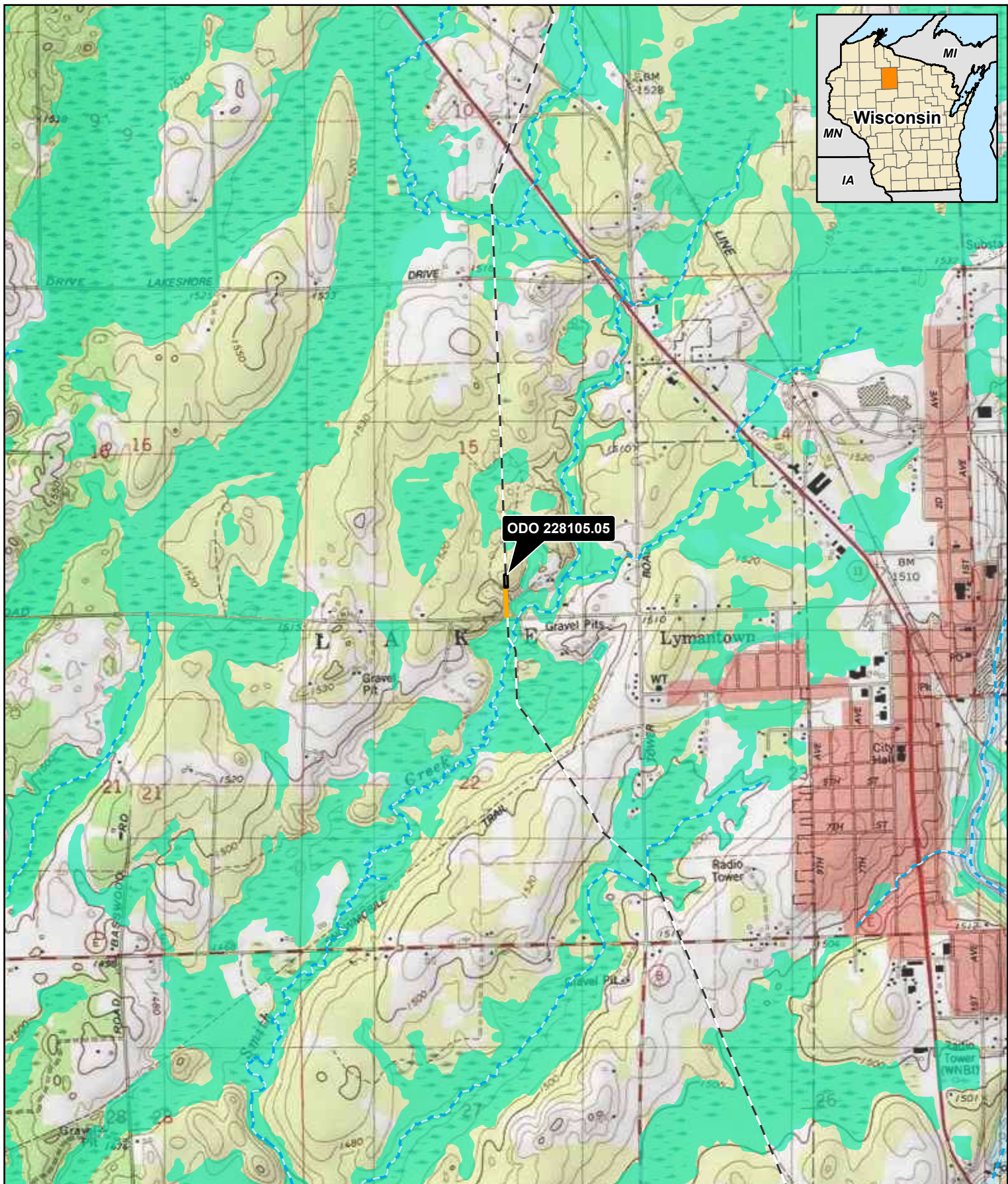
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 217875.98 / 218813.2**  
**Northern Natural Gas**  
**Price County, Wisconsin**





Group 43





0 1,000 2,000 Feet

1:24,000

**merjent** Northern Natural Gas

For Environmental Review Purposes Only

**Figure 1:**  
**081723WIB22301-10-I-R23**  
**Rib Lake Verification Dig\_OO129106**  
**Site Location - ODO 228105.05**  
**Northern Natural Gas**  
**Price County, Wisconsin**

Existing Pipeline

Temporary Workspace

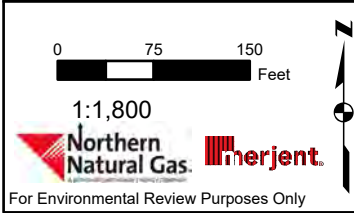
Access Road

WDNR Waterway

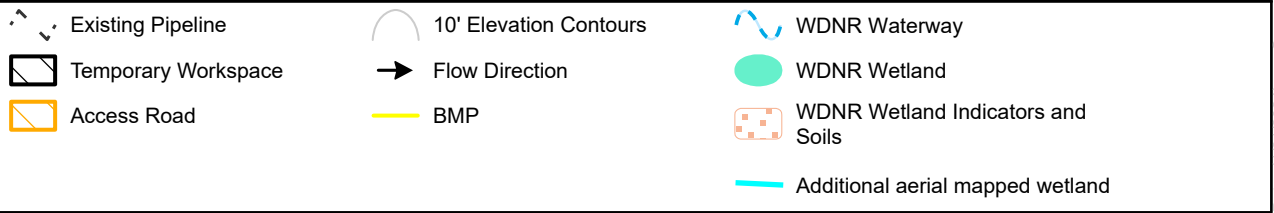
WDNR Wetland

Source: (1/17/2024) Sources: Z:\Clients\WI\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\WIB22301-10-I-R23\_Rib\_Lake\_Verifig\_OO129106\GIS\Permitting\001\_Arch\ONNNG\_WIB22301-10-I-R23\_RibLake\_Verifig\_Permitting.aprx





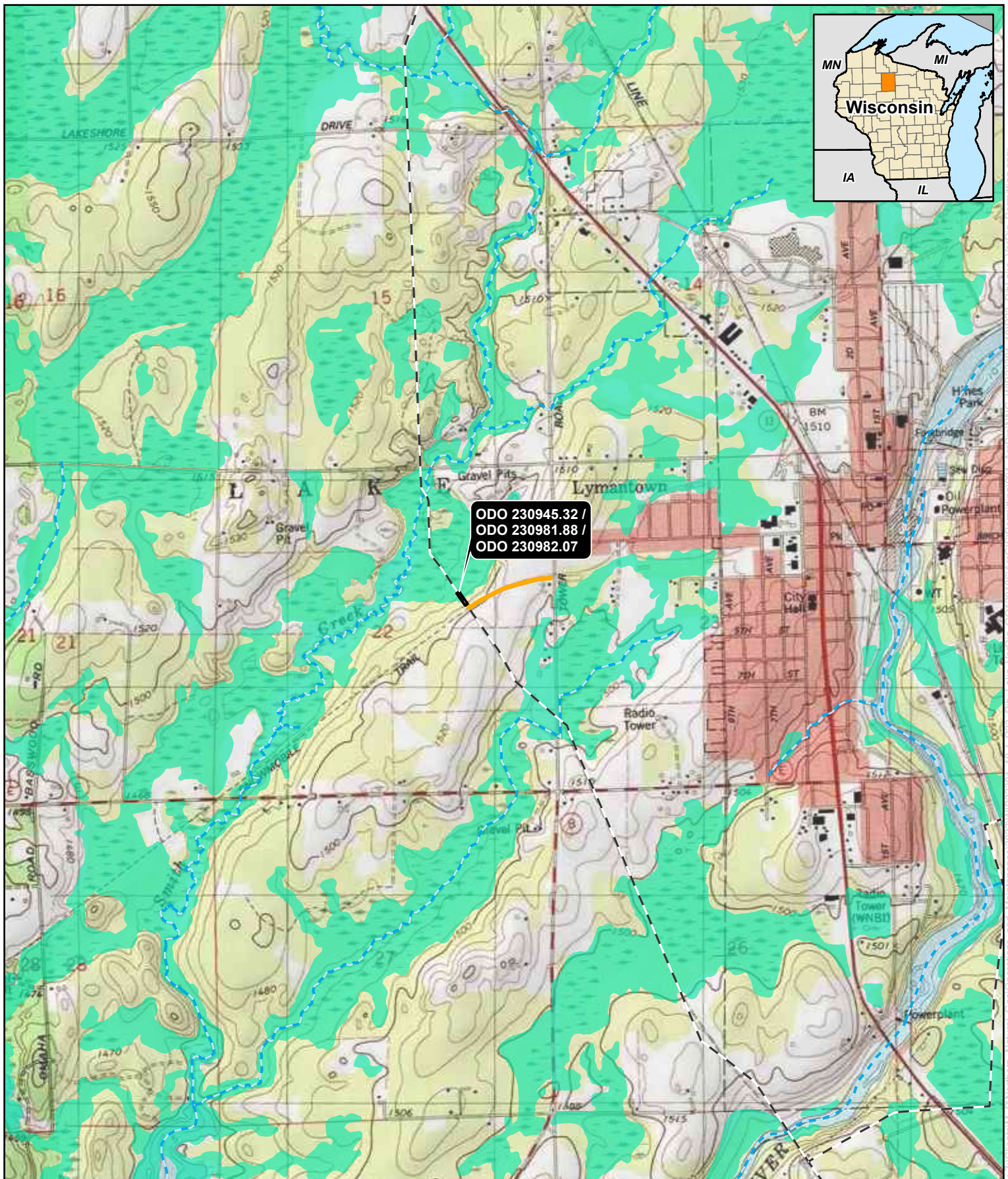
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 228105.05**  
**Northern Natural Gas**  
**Price County, Wisconsin**





Group 44





**Figure 1:**

081723WIB22301-10-I-R23  
 Rib Lake Verification Dig\_OO129106  
 Site Location - ODO 230945.32 /  
 230981.88 / 230982.07  
 Northern Natural Gas  
 Price County, Wisconsin

0 1,000 2,000  
 Feet

1:24,000

**merjent** Northern Natural Gas  
 For Environmental Review Purposes Only

Existing Pipeline

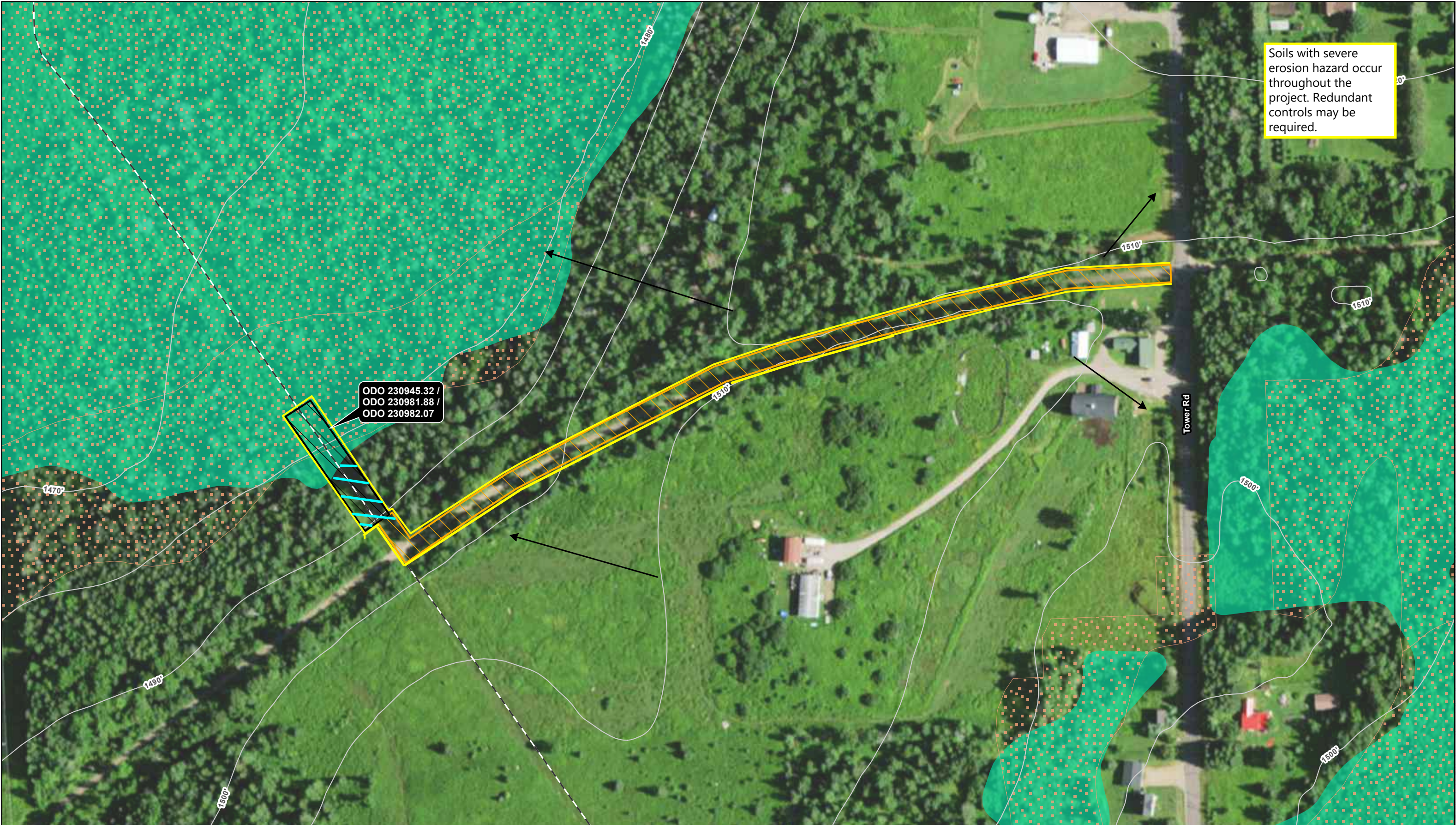
Temporary Workspace

Access Road

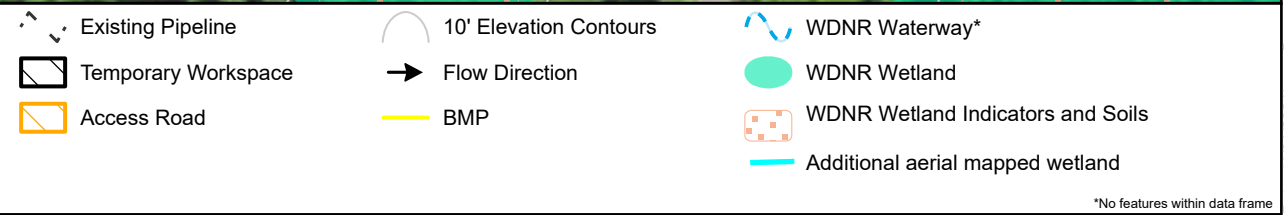
WDNR Waterway

WDNR Wetland





**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 230945.32 / 230981.88 / 230982.07**  
**Northern Natural Gas**  
**Price County, Wisconsin**



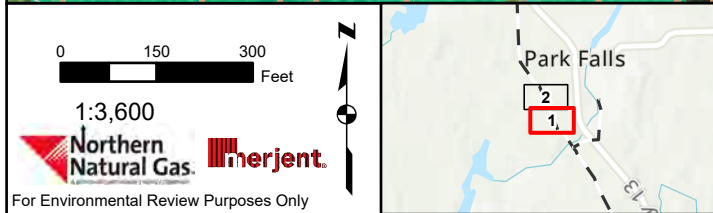


Group 45



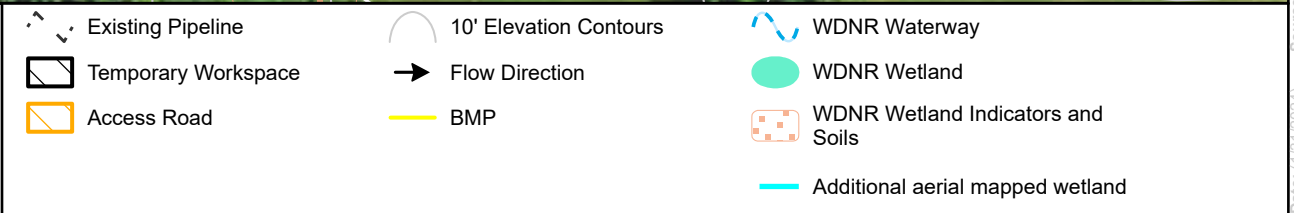






Page 1 of 2

**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 237445.23 / 237522.13 / 237839.18**  
**Northern Natural Gas**  
**Price County, Wisconsin**

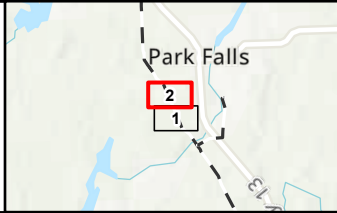
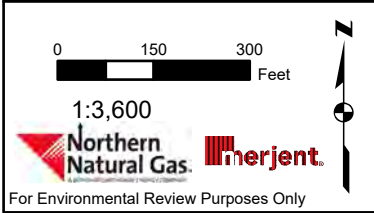


Source: Z:\Clients\MLP\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\WIB22301\_10\_I\_R23\_Rib\_Lake\_VerDig\_OO129106\ArcGIS\Permitting\001\_Air\Permitting.aprx Date: 1/13/2024



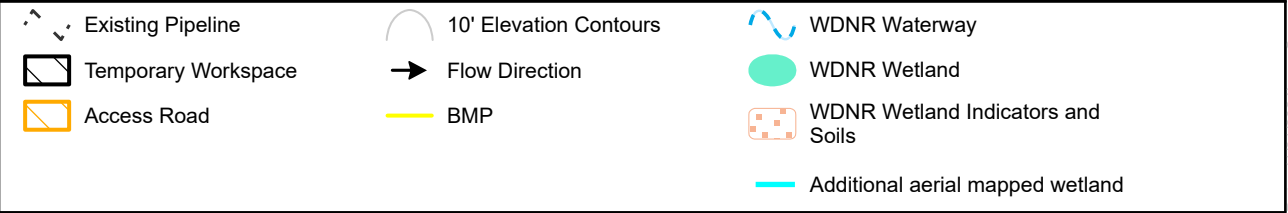


Soils with severe erosion hazard occur throughout the project. Redundant controls may be required.



Page 2 of 2

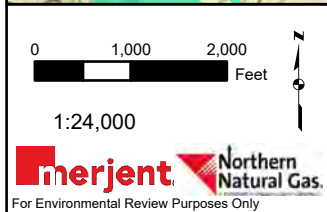
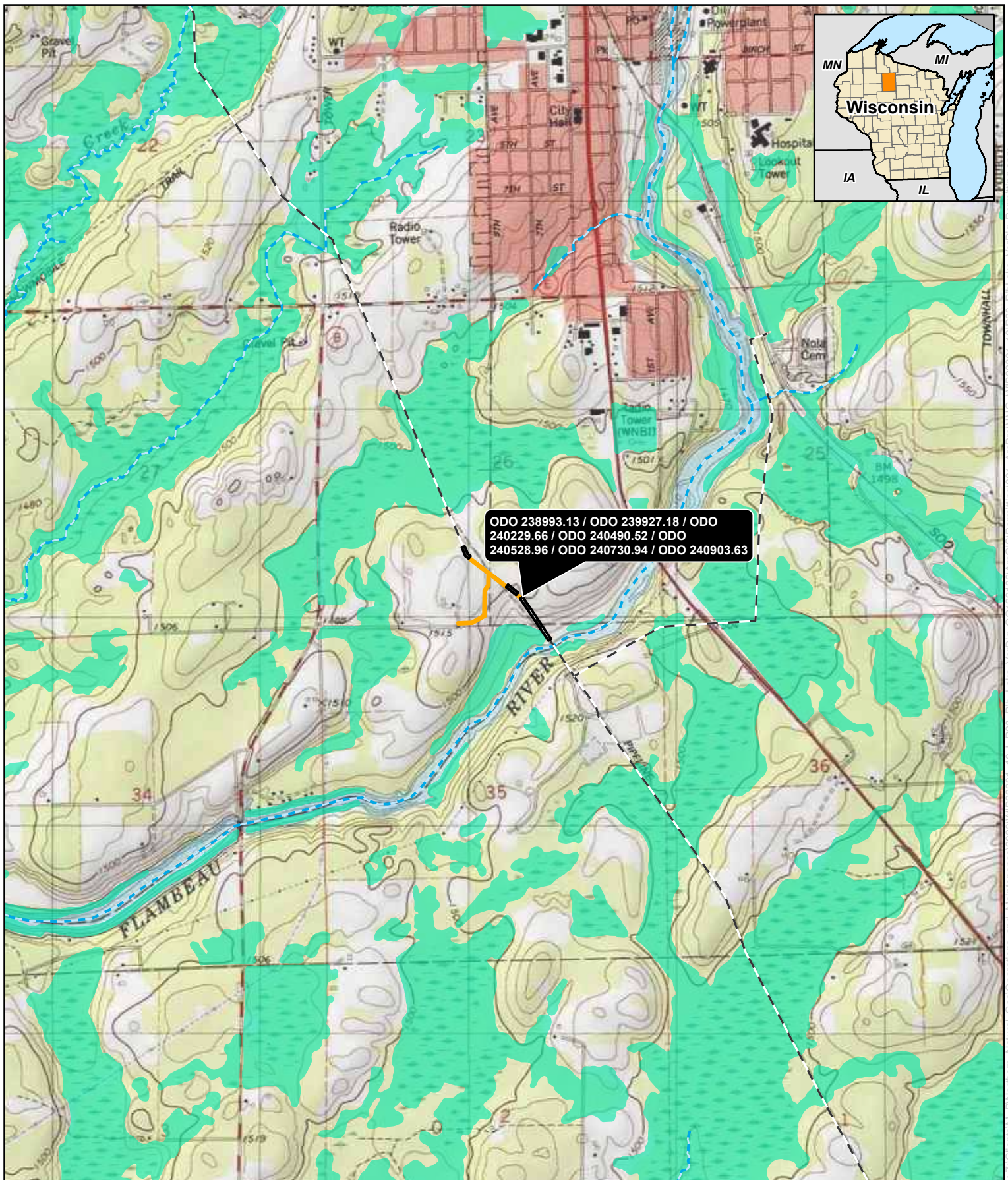
**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 237445.23 / 237522.13 / 237839.18**  
**Northern Natural Gas**  
**Price County, Wisconsin**



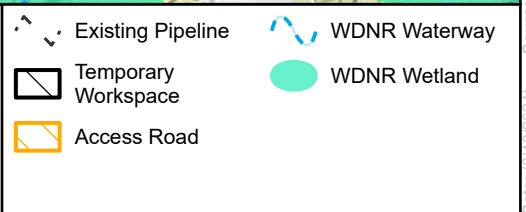


Group 46

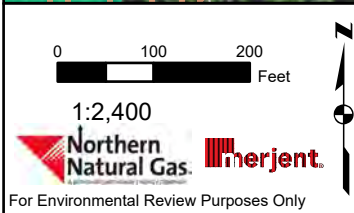
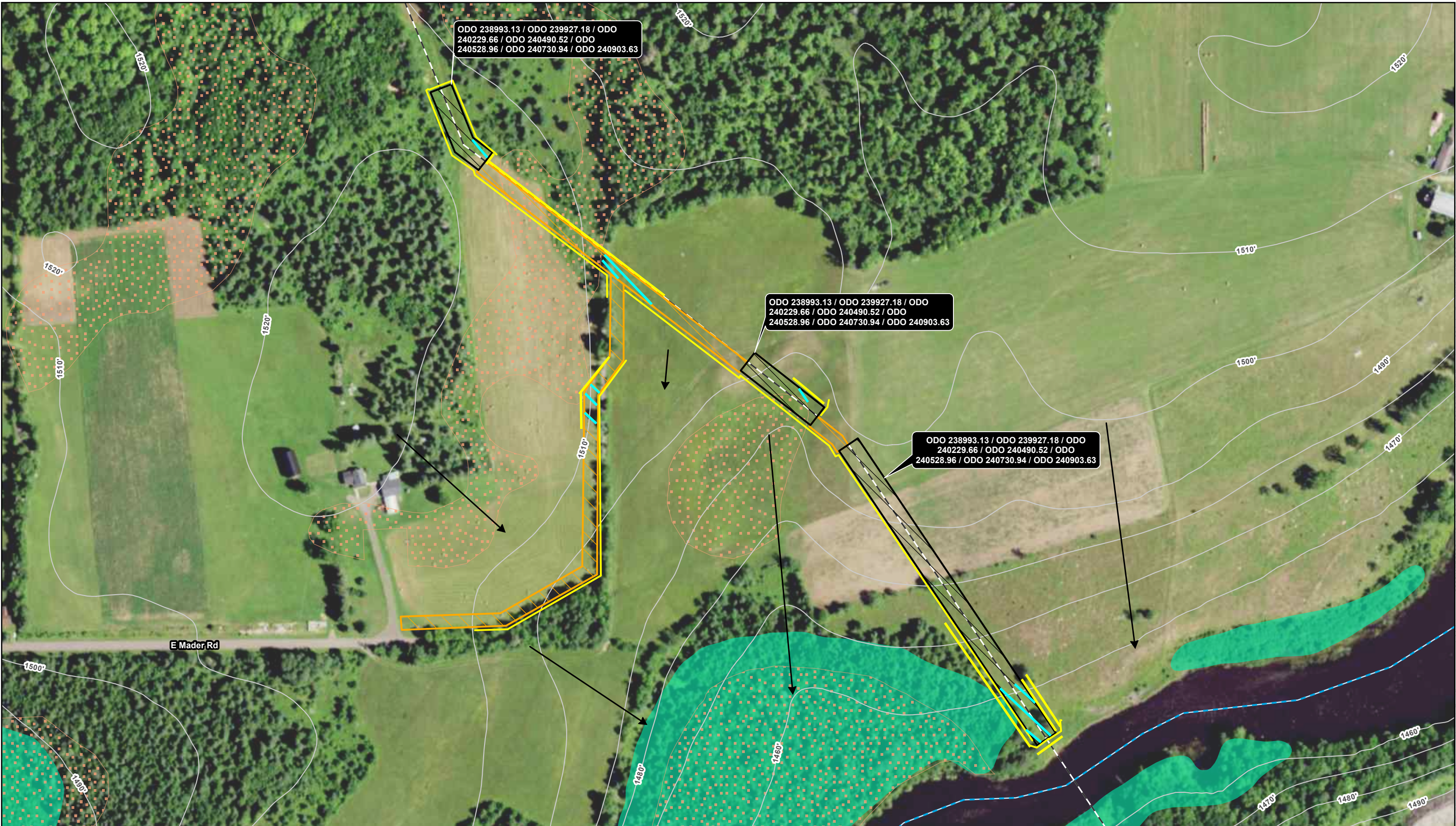




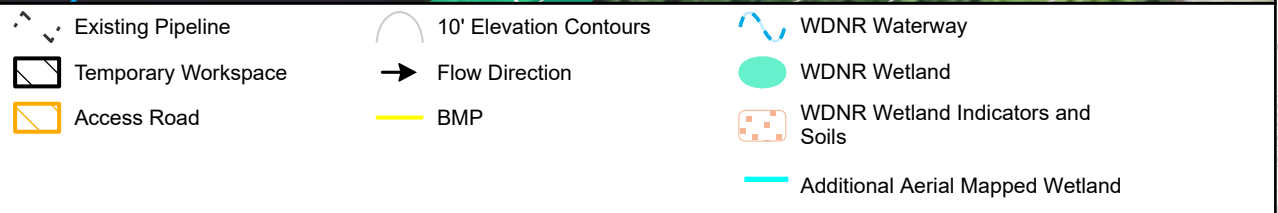
**Figure 1:**  
 081723WIB22301-10-I-R23  
 Rib Lake Verification Dig\_OO129106  
 Site Location - ODO 238993.13 / 239927.18 /  
 240229.66 / 240490.52 / 240528.96 / 240730.94 / 240903.63  
 Northern Natural Gas  
 Price County, Wisconsin







**Figure 2:**  
**081723WIB22301-10-I-R23 Rib Lake**  
**Verification Dig\_OO129106**  
**Site Plan - ODO 238993.13 / 239927.18 /**  
**240229.66 / 240490.52 / 240528.96 / 240730.94 / 240903.63**  
**Northern Natural Gas**  
**Price County, Wisconsin**





**FID 2936-2937**

**Figures**





050100

Feet

1 inch = 100 feet

**Figure 5: Wetland and Waterbody Determination**

OO142181-M432B-20-I-Dig23 Carlton-Iron River B-EMAT

FIDs 2936-2937

Northern Natural Gas

Douglas County, Wisconsin

Survey Area

Culvert Point

Photo Point

Stream Point

Wetland Data Point

Delineated Waterway

Community Type (Eggers & Reed)

Fresh (Wet) Meadow

Sedge Meadow

Date: (1/30/2024)

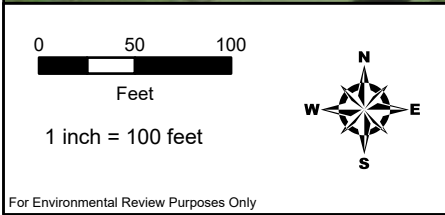
Source: Z:\Clients\ML\_P\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\M432B\_20\Dig23\_Carlton-IronRiver\_B-EMAT\M432B-20-I-Dig23\_Carlton-IronRiver\_B-EMAT\Map - Map Delineation



**FID 5359-5406**

**Figures**



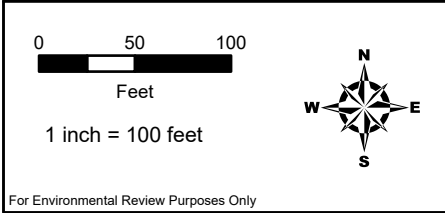
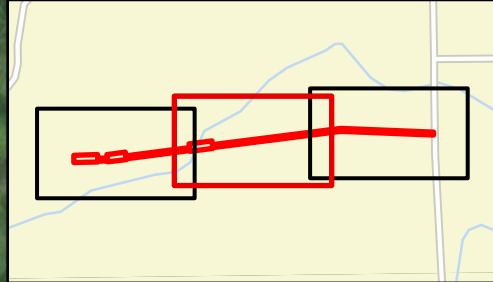


**Figure 5: Wetland and Waterbody Determination**  
**OO142181-M432B-20-I-Dig23 Carlton-Iron River B-EMAT**  
**FIDs 5359-5406**  
**Northern Natural Gas**  
**Douglas County, Wisconsin**

- |                    |                                |
|--------------------|--------------------------------|
| Survey Area        | Stream Point                   |
| Culvert Point      | Delineated Waterway            |
| Photo Point        | Community Type (Eggers & Reed) |
| Wetland Data Point | Fresh (Wet) Meadow             |
|                    | Hardwood Swamp                 |







For Environmental Review Purposes Only

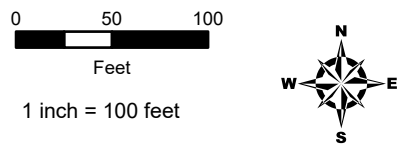
**Figure 5: Wetland and Waterbody Determination**  
**OO142181-M432B-20-I-Dig23 Carlton-Iron River B-EMAT**  
**FIDs 5359-5406**  
**Northern Natural Gas**  
**Douglas County, Wisconsin**

- |                    |                                |
|--------------------|--------------------------------|
| Survey Area        | Stream Point                   |
| Culvert Point      | Delineated Waterway            |
| Photo Point        | Community Type (Eggers & Reed) |
| Wetland Data Point | Fresh (Wet) Meadow             |
|                    | Hardwood Swamp                 |



Source: (1/30/2024) Z:\Clients\ML\_P\Northern\_Natural\_Gas\Operations\_and\_Maintenance\2023\M432B\_20\Dig23\_Carlton\_Iron\_River\_B-EMAT\Map\Map142181-M432B-20-I-Dig23 Carlton-Iron River B-EMAT.aprx - Map: Delineation





For Environmental Review Purposes Only

**Figure 5: Wetland and Waterbody Determination**  
**OO142181-M432B-20-I-Dig23 Carlton-Iron River B-EMAT**  
**FIDs 5359-5406**  
**Northern Natural Gas**  
**Douglas County, Wisconsin**

- |                    |                                |
|--------------------|--------------------------------|
| Survey Area        | Stream Point                   |
| Culvert Point      | Delineated Waterway            |
| Photo Point        | Community Type (Eggers & Reed) |
| Wetland Data Point | Fresh (Wet) Meadow             |



Source: Z:\Clients\ML\_P\Norman\_Natural\_Gas\Operations\_and\_Maintenance\2023\MA32B\_20\Dig23\_Carlton\_Iron\_River\_B-EMAT\MA32B-20-I-Dig23\_Carlton-Iron River B-EMAT.aprx - Map: Delineation Date: (1/30/2024)