

Wastewater Treatment Facility 2019 Environmental Review Documents

Two Harbors, MN



Real People. Real Solutions.

Environmental Information
Worksheet (EIW) form

Clean Water State Revolving Fund Program

Minnesota Rule Chapter 7077.0272, subp. 2.a.F.

Minnesota Rule Chapter 7077.0277, subp. 3.E.

Doc Type: Wastewater Point Source

Eligible applicants seeking funds for clean water (stormwater and wastewater) projects through the Clean Water State Revolving Fund (commonly referred to as the CWSRF Program) are required by Minn. R. ch. 7077.0272, subp. 2.a.F. and Minn. R. ch. 7077.0277, subp. 3.E., to complete an Environmental Information Worksheet (EIW). This information will be used to assess environmental impacts, if any, caused by the project.

Questions: Contact Review Engineer or Bill Dunn at 651-757-2324 or bill.dunn@state.mn.us.

1. **Project title:** Two Harbors Main Lift Station Facility Plan
2. **Proposer:** City of Two Harbors
- Contact person:** Brian Guldán
- Title:** Environmental Project Manager
- Address:** 7533 Sunwood Drive NW, Suite 206
Ramsey, MN 55303
- Phone:** 612-499-0533
- Fax:** 763-427-0833
3. **Project location:** County: Lake City/Twp: Two Harbors
NW 1/4 SW 1/4 Section: 6 Township: 52 Range: 10W

Tables, Figures, and Appendices attached to the EIW:

- County map showing the general location of the project;
- United States Geological Survey 7.5 minute, 1:24,000 scale map indicating project boundaries (photocopy acceptable);
- Site plan showing all significant project and natural features.

4. **Description:**

- a. Provide a project summary of 50 words or less.

Improvements to the existing Wastewater Treatment Facility including rehabilitation and replacement of select unit processes and demolition of existing structures.

- b. Give a complete description of the proposed project and related new construction. Attach additional sheets as necessary. Emphasize construction, operation methods and features that will cause physical manipulation of the environment or will produce wastes. Include modifications to existing equipment or industrial processes and significant demolition, removal or remodeling of existing structures. Indicate the timing and duration of construction activities.

Rehabilitation of the existing pretreatment facility and construction of new activated sludge extended aeration basins, new final clarifiers, and new biosolids holding tank.

- c. Explain the project purpose; if the project will be carried out by a governmental unit, explain the need for the project and identify its beneficiaries.

Safely treat wastewater from the City of Two Harbors to meet the proposed effluent limits for the receiving water, Lake Superior.

- d. Are future stages of this development including development on any outlots planned or likely to happen? ☐ Yes ☒ No
If yes, briefly describe future stages, relationship to present project, timeline and plans for environmental review.

- e. Is this project a subsequent stage of an earlier project? ☐ Yes ☒ No
If yes, briefly describe the past development, timeline and any past environmental review.

5. Project magnitude data

Total Project Area (acres) 3.5 or Length (miles) NA
Number of Residential Units: Unattached NA Attached NA maximum units per building _____
Commercial/Industrial/Institutional Building Area (gross floor space): total square feet _____
Indicate area of specific uses (in square feet): _____

Office	<u>NA</u>	Manufacturing	<u>NA</u>
Retail	<u>NA</u>	Other Industrial	<u>NA</u>
Warehouse	<u>NA</u>	Institutional	<u>NA</u>
Light Industrial	<u>24,000 sf</u>	Agricultural	<u>NA</u>
Other Commercial (specify)	<u>9,000 sf</u>		
Building height	<u>20</u>	If over 2 stories, compare to heights of nearby buildings _____	

6. **Permits and approvals required.** List all known local, state and federal permits, approvals and financial assistance for the project. Include modifications of any existing permits, governmental review of plans, and all direct and indirect forms of public financial assistance including bond guarantees, Tax Increment Financing and infrastructure.

Unit of government	Type of application	Status
MPCA	NPDES Permit	To be submitted
MPCA	Facility Plan Approval	To be submitted
Public Facilities Authority	Financial Assistance	To be submitted
Two Harbors Building Official	Building Permit	To be submitted
MPCA-Storm Water Protection	Storm Water Permit	To be submitted

7. **Land use.** Describe current and recent past land use and development on the site and on adjacent lands. Discuss project compatibility with adjacent and nearby land uses. Indicate whether any potential conflicts involve environmental matters. Identify any potential environmental hazards due to past site uses, such as soil contamination or abandoned storage tanks, or proximity to nearby hazardous liquid or gas pipelines.

Any new construction will be conducted within the existing land used for the Two Harbors Wastewater Treatment Facility.

8. **Cover types.** Estimate the acreage of the site with each of the following cover types before and after development:

	Before	After		Before	After
Types 1-8 wetlands	<u>0</u>	<u>0</u>	Lawn/landscaping	<u>.5</u>	<u>1.25</u>
Wooded/forest	<u>0.5</u>	<u>0.0</u>	Impervious Surfaces	<u>2</u>	<u>2.25</u>
Brush/grassland	<u>0.5</u>	<u>0</u>	Other (describe)	<u>0</u>	<u>0</u>
Cropland	<u>0</u>	<u>0</u>			
			Total	<u>3.5</u>	<u>3.5</u>

9. Fish, wildlife, and ecologically sensitive resources.

- a. Identify fish and wildlife resources and habitats on or near the site and describe how they would be affected by the project. Describe any measures to be taken to minimize or avoid impacts.

Fish and wildlife that utilize Lake Superior as habit will see better water quality due to implementation of total nitrogen removal at the treatment facility.

- b. Are any state (endangered or threatened) species, rare plant communities or other sensitive ecological resources such as native prairie habitat, colonial waterbird nesting colonies or regionally rare plant communities on or near the site?

☒ Yes ☐ No

If yes, describe the resource and how it would be affected by the project. Indicate if a site survey of the resources has been conducted and describe the results. If the Minnesota Department of Natural Resources (DNR) Natural Heritage and Nongame Research program has been contacted give the correspondence reference number: _____
Describe measures to minimize or avoid adverse impacts.

The Lake Chub is present in Lake Superior. The MN DNR has been contacted and a review is pending.

10. Physical impacts on water resources. Will the project involve the physical or hydrologic alteration (dredging, filling, stream diversion, outfall structure, diking, and impoundment) of any surface waters such as a lake, pond, wetland, stream or drainage ditch? ☐ Yes ☒ No

If yes, identify water resource affected. Describe alternatives considered and proposed mitigation measures to minimize impacts. Give the DNR Protected Waters Inventory (PWI) number(s) if the water resources affected are on the PWI.

11. Water use. Will the project involve installation or abandonment of any water wells, connection to or changes in any public water supply or appropriation of any ground or surface water (including dewatering)? ☐ Yes ☒ No

If yes, as applicable, give location and purpose of any new wells; public supply affected, changes to be made, and water quantities to be used; the source, duration, quantity and purpose of any appropriations; and unique well numbers and DNR appropriation permit numbers, if known. Identify any existing and new wells on the site map. If there are no wells known on site, explain methodology used to determine.

12. Water-related land use management districts. Does any part of the project involve a shoreland zoning district, a delineated 100-year flood plain, or a state or federally designated wild or scenic river land use district? ☐ Yes ☒ No

If yes, identify the district and discuss project compatibility with district land use restrictions.

13. Water surface use. Will the project change the number or type of watercraft on any water body? ☐ Yes ☒ No

If yes, indicate the current and projected watercraft usage and discuss any potential overcrowding or conflicts with other uses.

14. Erosion and sedimentation. Give the acreage to be graded or excavated and the cubic yards of soil to be moved: 1.5 Acres: 15,000 cubic yards. Describe any steep slopes or highly erodible soils and identify them on the site map. Describe any erosion and sedimentation control measures to be used during and after project construction.

Approved Storm Water Pollution Prevention Procedures (SWPPP) such as silt fence construction and turf establishment will be implemented. A SWPPP will be developed to ensure storm water is handled properly and meets current standards onsite.

15. Water quality – surface-water runoff.

- a. Compare the quantity and quality of site runoff before and after the project. Describe permanent controls to manage or treat runoff. Describe any storm water pollution prevention plans.

The City will comply with Stormwater Pollution Prevention practices and utilize best management practices to protect the surface water during construction and when the treatment facility is in service. The quantity and quality of site runoff will remain unchanged. The existing buffer zone and turf establishment will treat runoff that occurs. An approved SWPPP will be implemented prior to construction. It is anticipated the plan will include constructing a

perimeter silt fence and turf establishment after construction is completed.

- b. Identify routes and receiving water bodies for runoff from the site; include major downstream water bodies as well as the immediate receiving waters. Estimate impact runoff on the quality of receiving waters.

The receiving body of water is Lake Superior. The quality of the receiving water will not be impacted due to the existing buffer zone between the treatment facility and Lake Superior and due to the implementation of an approved SWPPP.

16. Water quality – wastewater.

- a. Describe sources, composition and quantities of all sanitary, municipal and industrial wastewater produced or treated at the site.

Two Harbors has domestic wastewater plus one industry. The facility will be designed to treat an average wet weather flow of 1.6 MGD and an average yearly flow of 1.2 MGD.

- b. Describe waste treatment methods or pollution prevention efforts and give estimates of composition after treatment. Identify receiving waters, including major downstream water bodies, and estimate the discharge impact on the quality of receiving waters. If the project involves on-site sewage systems, discuss the suitability of site conditions for such systems.

The proposed treatment facility is an extended aeration activated sludge facility. The system will consist of pretreatment, activated sludge, final clarifiers, tertiary filtration, disinfection, and discharge into Lake Superior.

- c. If wastes will be discharged into a publicly owned treatment facility, identify the facility, describe any pretreatment provisions and discuss the facility's ability to handle the volume and composition of wastes, identifying any improvements necessary.

Not applicable

- d. If the project requires disposal of liquid animal manure, describe disposal technique and location and discuss capacity to handle the volume and composition of manure. Identify any improvements necessary. Describe any required setbacks for land disposal systems.

Not applicable

17. Geologic hazards and soil conditions.

- a. Approximate depth (in feet) to Groundwater NA minimum; NA average.
Bedrock: 5 ft minimum; 8 ft average.

Describe any of the following geologic site hazards to groundwater and also identify them on the site map: sinkholes, shallow limestone formations or karst conditions. Describe measures to avoid or minimize environmental problems due to any of these hazards.

None known

- b. Describe the soils on the site, giving U.S. Soil Conservation Service (SCS) classifications, if known. Discuss soil granularity and potential for groundwater contamination from wastes or chemicals spread or spilled onto the soils. Discuss any mitigation measures to prevent such contamination.

Soils are mainly clay over bedrock.

18. Solid wastes, hazardous wastes, storage tanks.

- a. Describe types, amounts and compositions of solid or hazardous wastes, including solid animal manure, sludge and ash, produced during construction and operation. Identify method and location of disposal. For projects generating municipal solid waste, indicate if there is a source separation plan; describe how the project will be modified for recycling. If hazardous waste is generated, indicate if there is a hazardous waste minimization plan and routine hazardous waste reduction assessments.

The facility will produce 3,2 million gallons of Class B municipal biosolids on an annual basis. Biosolids will be land applied with 503 Regulations.

- b. Identify any toxic or hazardous materials to be used or present at the site and identify measures to be used to prevent them from contaminating groundwater. If the use of toxic or hazardous materials will lead to a regulated waste, discharge or emission, discuss any alternatives considered to minimize or eliminate the waste, discharge or emission.

Not applicable

- c. Indicate the number, location, size and use of any above or below ground tanks to store petroleum products or other

materials, except water. Describe any emergency response containment plans.

One diesel storage tank for a backup generator will be located on site. The tank will be approximately 1000 gallons. The location of the storage tank has not, yet, been determined.

19. **Traffic.** Parking spaces added: 0 Existing spaces (if project involves expansion): 6
Estimated total average daily traffic generated: 6 trips Estimated maximum peak hour traffic generated (if known) and its timing: Not Applicable Provide an estimate of the impact on traffic congestion affected roads and describe any traffic improvements necessary. If the project is within the Twin Cities metropolitan area, discuss its impact on the regional transportation system.

Not applicable

20. **Vehicle-related air emissions.** Estimate the effect of the project's traffic generation on air quality, including carbon monoxide levels. Discuss the effect of traffic improvements or other mitigation measures on air quality impacts. Note: If the project involves 500 or more parking spaces, consult *Environmental Assessment Worksheet (EAW) Guidelines* about whether a detailed air quality analysis is needed.

Vehicle related air emissions will increase slightly during construction due to the use of diesel powered equipment.

21. **Stationary source air emissions.** Describe the type, sources, quantities and compositions of any emissions from stationary sources of air emissions such as boilers, exhaust stacks or fugitive dust sources. Include any hazardous air pollutants (consult *EAW Guidelines* for a listing), any greenhouse gases (such as carbon dioxide, methane, and nitrous oxides), and ozone-depleting chemicals (chlorofluorocarbons, hydrofluorocarbons, perfluorocarbons or sulfur hexafluoride). Also describe any proposed pollution prevention techniques and proposed air pollution control devices. Describe the impacts on air quality.

None

22. **Odors, noise, and dust.** Will the project generate odors, noise or dust during construction or during operation? ☒ Yes ☐ No

If yes, describe sources, characteristics, duration, quantities or intensity and any proposed measures to mitigate adverse impacts. Also identify locations of nearby sensitive receptors and estimate impacts on them. Discuss potential impacts on human health or quality of life. (Note: fugitive dust generated by operations may be discussed at item 23 instead of here.)

Noise will be generated during the construction process but limited to the work hours designated by the City of Two Harbors. Measures to mitigate dust will be applied when appropriate.

- 23a. **Nearby resources.** Are any of the following resources on or in proximity to the site? Projects should search the Minnesota State Historic Preservation Office's (SHPO) National Register of Historic Places database.

***Note:** Project proposers must contact the SHPO at datarequestshpo@mnhs.org to request a database review to obtain information on any known historical or archaeological sites in the project area.

Include a copy of correspondence with SHPO with the submittal of this EIW form.

- a. Archaeological, historical, or architectural resources? ☐ Yes ☐ No
- b. Prime or unique farmlands or land within an agricultural preserve? ☐ Yes ☐ No
- c. Designated parks, recreation areas, or trails? ☐ Yes ☐ No
- d. Scenic views and vistas? ☐ Yes ☐ No
- e. Other unique resources? ☒ Yes ☐ No

If yes, describe the resource and identify any project-related impacts on the resources. Describe any measures to minimize or avoid adverse impacts.

The State Historic Preservation Office has been contacted and a review on historical structures or archeological sites is pending.

- 23b. **Section 106 Review** (36 CFR 800) is required for all CWRP projects. The following forms can be found on the MPCA Wastewater and Stormwater Financial Assistance website at <https://www.pca.state.mn.us/ppf>. Select Clean Water Revolving Fund tab; then scroll to Facilities Plan and Facilities Plan Supplement for Wastewater Treatment Systems heading.

- a. Project is exempt from review (attach completed *Exemption Checklist*) ☐ Yes ☒ No
- b. Project is required to complete further Section 106 Review: ☒ Yes ☐ No
 - a. SHPO
 - b. Tribal consultation
 - c. Other Consulting parties

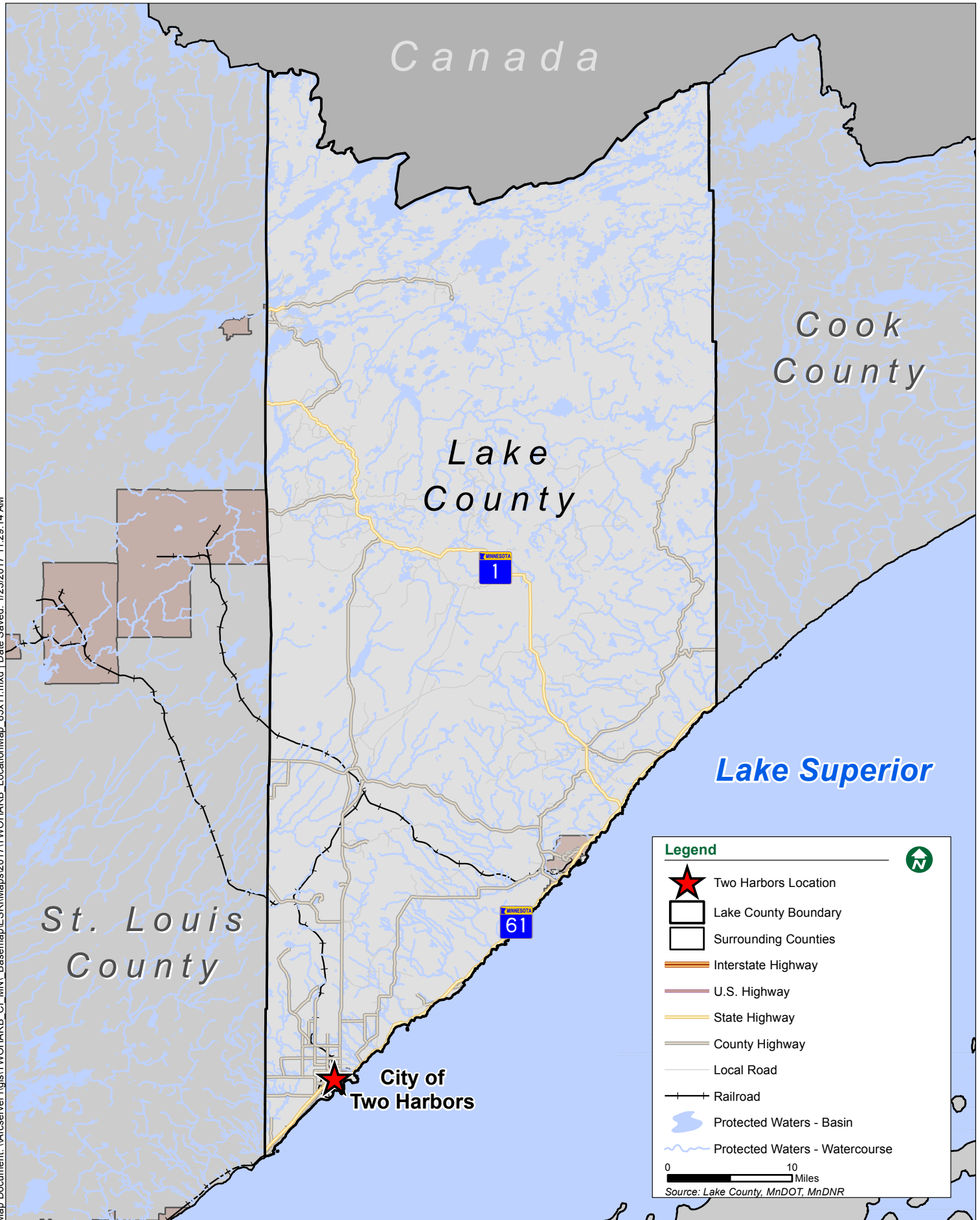
24. **Visual impacts.** Will the project create adverse visual impacts during construction or operation? Such as glare from intense lights, lights visible in wilderness areas and large visible plumes from cooling towers or exhaust stacks? ☐ Yes ☒ No

If yes, explain.

- 25. Compatibility with plans and land use regulations.** Is the project subject to an adopted local comprehensive plan, land use plan or regulation, or other applicable land use, water, or resource management plan of a local, regional, state or federal agency? ☒ Yes ☐ No
- If yes, describe the plan, discuss its compatibility with the project and explain how any conflicts will be resolved. If no, explain.
The project will occur at the existing Wastewater Treatment Facility site. This project is compatible with planned land uses for the project location.
- 26. Impact on infrastructure and public services.** Will new or expanded utilities, roads, other infrastructure or public services be required to serve the project? ☐ Yes ☒ No
- If yes, describe the new or additional infrastructure or services needed. (Note: any infrastructure that is a connected action with respect to the project must be assessed in the EAW; see *EAW Guidelines* for details.)
- 27. Cumulative impacts.** Minn. R. 4410.1700, subp. 7, item B requires that the RGU consider the “cumulative potential effects of related or anticipated future projects” when determining the need for an environmental impact statement. Identify any past, present or reasonably foreseeable future projects that may interact with the project described in this EAW in such a way as to cause cumulative impacts. Describe the nature of the cumulative impacts and summarize any other available information relevant to determining whether there is potential for significant environmental effects due to cumulative impacts (or discuss each cumulative impact under appropriate item(s) elsewhere on this form).
None
- 28. Other potential environmental impacts.** If the project may cause any adverse environmental impacts not addressed by items 1 to 28, identify and discuss them here, along with any proposed mitigation.
Not applicable
- 29. Summary of issues.** List any impacts and issues identified above that may require further investigation before the project is begun. Discuss any alternatives or mitigative measures that have been or may be considered for these impacts and issues, including those that have been or may be ordered as permit conditions.
Not applicable

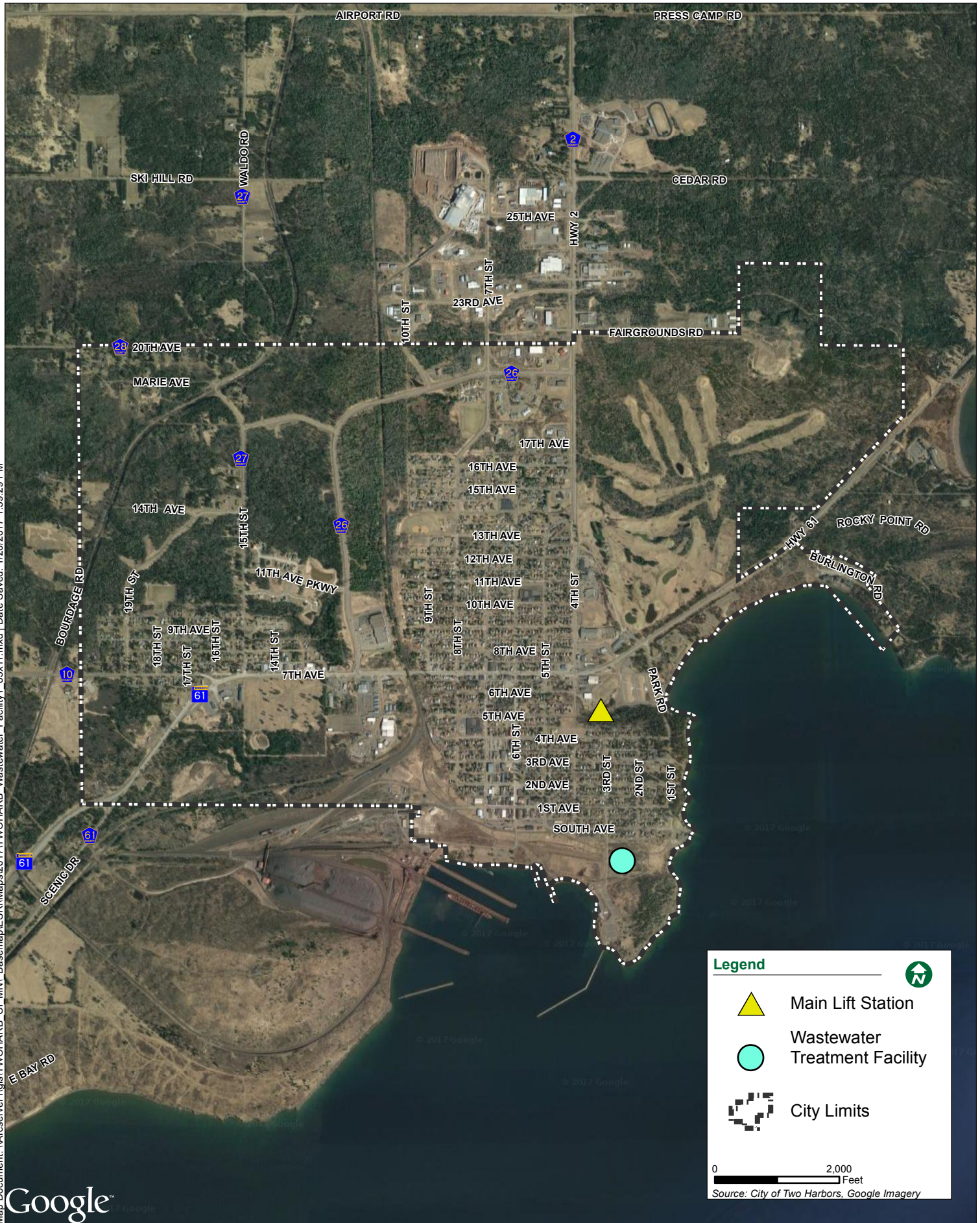


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Wastewater Treatment Facility

City of Two Harbors, MN

Proposed Site Plan

November, 2017



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LIGHTHOUSE POINT RD

Google

Legend



Parcels

City Limits

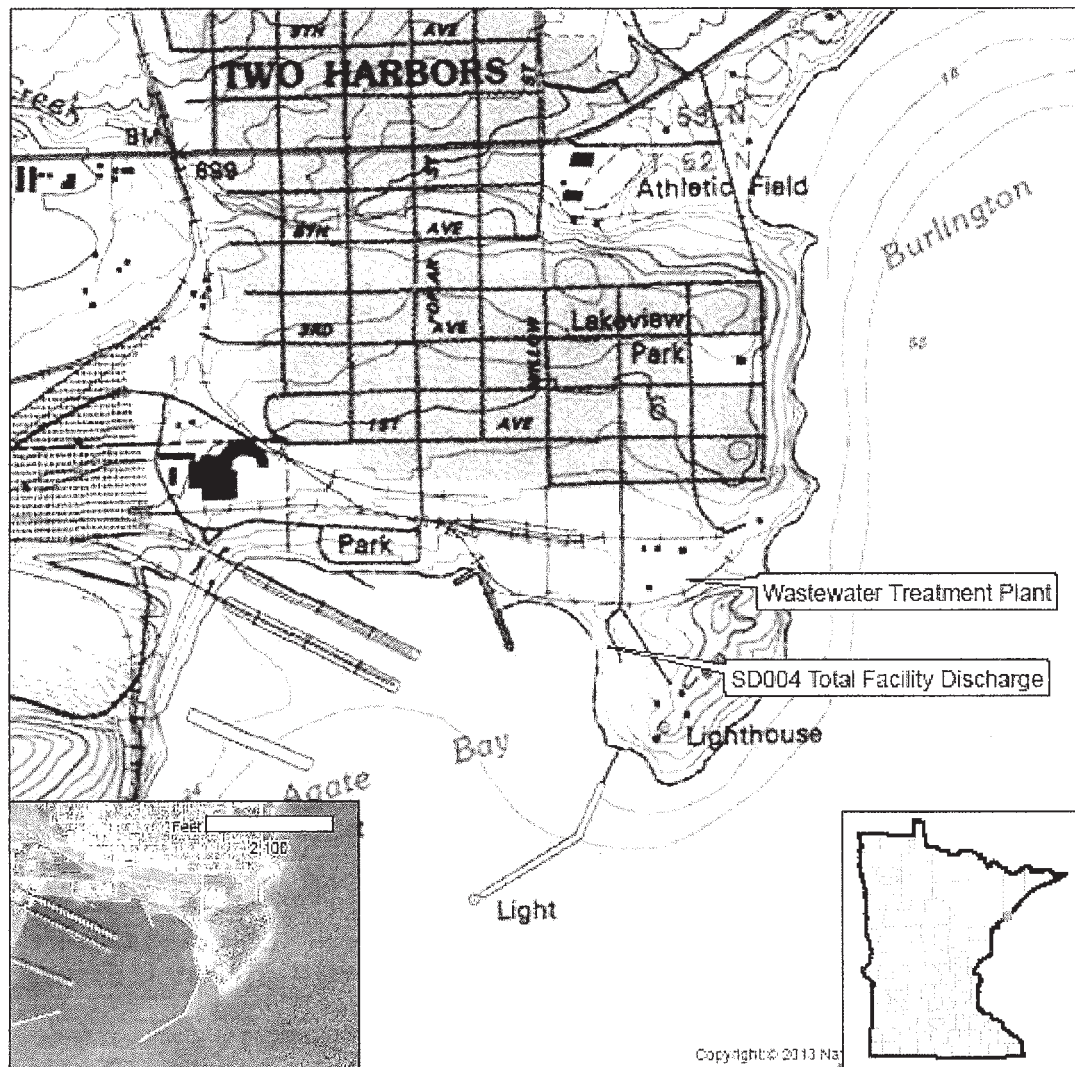


0 100 Feet

Source: Lake County, Google Satellite Imagery ©2017,
DigitalGlobe, USDA Farm Service Agency

Topographic Map of Permitted Facility

MN0022250: Two Harbors Wastewater Treatment Facility
T52N, R10W, Section 6
Two Harbors, Lake County, Minnesota



Map produced by: MPCA Staff, 4/7/2014
Source: Rochester Quad
Main Map Scale: 1:12,000

Brian Guldán

From: Brian Guldán
Sent: Friday, March 2, 2018 8:59 AM
To: 'Review.NHIS@state.mn.us'
Subject: NHIS Data Request - Two Harbors Wastewater Treatment Facility
Attachments: Complete NHIS Review.pdf

Lisa,

Please find the attached NHIS data request for Two Harbors, MN. The project involves the rehabilitation and replacement of several major components at the City's Wastewater Treatment Facility. A map showing the location, project boundary, and proposed site plan are also attached.

Please let me know if there are any questions or if any additional information is needed.

Thanks,

Brian J Guldán P.E.
Environmental Project Engineer
Bolton & Menk, Inc.
7533 Sunwood Drive NW
Suite 206
Ramsey, MN 55303-5119
Phone: 763-433-2851 ext. 2658
Mobile: 612-499-0533
Bolton-Menk.com



2012	For Agency Use Only:		#Sec _____	Contact Rqsted? _____
	Received _____	Due _____	Inv _____	#EOs _____
	Search Radius _____ mi. L / I / D EM		Map'd _____	Survey Rqsted? _____
	NoR / NoF / NoE / Std / Sub	Let _____	Log out _____	#Com _____
			Related ERDB# _____	

NATURAL HERITAGE INFORMATION SYSTEM (NHIS) DATA REQUEST FORM

Please read the instructions on page 3 before filling out the form. Thank you!

WHO IS REQUESTING THE INFORMATION?

Mr. Name and Title **Brian J. Guldán** Environmental Project Engineer

Ms. Agency/Company **Bolton & Menk, Inc.**

Mailing Address **7533 Sunwood Dr. Suite 206 Ramsey MN 55303**

(Street) (City) (State) (Zip Code)

Phone **763-433-2851** e-mail **briangu@bolton-menk.com**

Responses will be sent via email. If you prefer US Mail check here: ☐

THIS INFORMATION IS BEING REQUESTED FOR A:

- ☐ Federal EA ☒ State EAW ☐ PUC Site or Route Application ☐ Watershed Plan ☐ BER
☐ Federal EIS ☐ State EIS ☐ Local Government Permit ☐ Research Project
☐ NEPA Checklist ☐ Other (describe) _____
☐ Check here if this project is funded through any of the following grant programs: Lessard-Sams Outdoor Heritage Council (L-SOHC), Conservation Partners Legacy (CPL), or Legislative-Citizen Commission on Minnesota Resources (LCCMR).

INFORMATION WE NEED FROM YOU:

- 1) **Enclose a map** of the project boundary/area of interest (topographic maps or aerial photos are preferred).
- 2) Please **provide a GIS shapefile*** (NAD 83, UTM Zone 15N) of the project boundary/area of interest.
- 3) List the following locational information* (attach additional sheets if necessary):

For Agency Use: Region / MCBS Status	County	Township #	Range #	Section(s) (please list all sections)	For Agency Use: TRS Confirmed <input type="checkbox"/>
	Lake	52	10W	6	

- 4) Please provide the following information (attach additional sheets if necessary):

Project Name: **Two Harbors Wastewater Treatment Facility Improvements**

Project Proposer: **Brian Guldán**

Description of Project (including types of disturbance anticipated from the project):

The project is the rehabilitation and replacement for several unit processes at the existing Wastewater Treatment Facility. Main disturbances from the project will be demolition of existing structures and excavation for construction of new process tanks.

Describe the existing land use of the project site. What types of land cover / habitat will be impacted by the proposed project?

The site is City owned property and all construction will occur within the existing wastewater treatment facility boundaries. Clearing of some trees will be required for construction of the new facilities.

List any waterbodies (e.g., rivers, intermittent streams, lakes, wetlands) that may be affected by the proposed project, and discuss how they may be impacted (e.g., dewatering, discharge, riverbed disturbance).

Drainage from the site is eventually discharged into Lake Superior. A SWPPP plan will be implemented to treat runoff during construction.

Does the project have the potential to affect any groundwater resources (e.g., groundwater appropriation, change in recharge, or contamination)?

None

To your knowledge, has the project undergone a previous Natural Heritage review? If so, please list the correspondence #: ERDB # _____. How does this request differ from the previous request (e.g., change in scope, change in boundary, project being revived, project expansion, different phase)?

There has been no such review completed for this site

To your knowledge, have any native plant community or rare species surveys been conducted within the site? If so, please list:

Unknown

List any DNR Permits or Licenses that you will be applying for or have already applied for as part of this project:

None

INFORMATION WE PROVIDE TO YOU:

1) The response will include a Natural Heritage letter. If applicable, the letter will discuss potential effects to rare features.

- ☐ Check here if you are interested in a list of rare features in the vicinity of the area of interest but you do **not** need a review of potential effects to rare features. Please list the reason a review is not needed:

2) Depending on the results of the query or review, the response may include an Index Report of known aggregation sites and known occurrences of federally and state-listed plants and animals* within an approximate one-mile radius of the project boundary/area of interest. The Index Report and Natural Heritage letter can be included in any public environmental review document.

3) A Detailed Report that contains more information on each occurrence may also be requested. Please note that the Detailed Report may contain specific location information that is protected under *Minnesota Statutes*, section 84.0872, subd. 2, and, as such, the Detailed Report may not be included in any public document (e.g., an EAW).

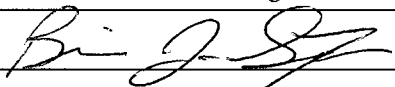
- ☐ Check here if you would like to request a Detailed Report. Please note that if the results of the review are 'No Effects' or a standard comment, a Detailed Report may not be available.

FEES / TURNAROUND TIME

There is a fee* for this service. Requests generally take **3-4 weeks** from date of receipt to process, and are processed in the order received.

I have read the entire form and instructions, and the information supplied above is complete and accurate. I understand that material supplied to me from the Natural Heritage Information System is copyrighted and that I am not permitted to reproduce or publish any of this copyrighted material without prior written permission from the DNR. Further, if permission to publish is given, I understand that I must credit the Minnesota Division of Ecological and Water Resources, Minnesota Department of Natural Resources, as the source of the material.

Signature
(required)



Note: Digital signatures representing the name of a person shall be sufficient to show that such person has signed this document.

Mail or email completed form to:

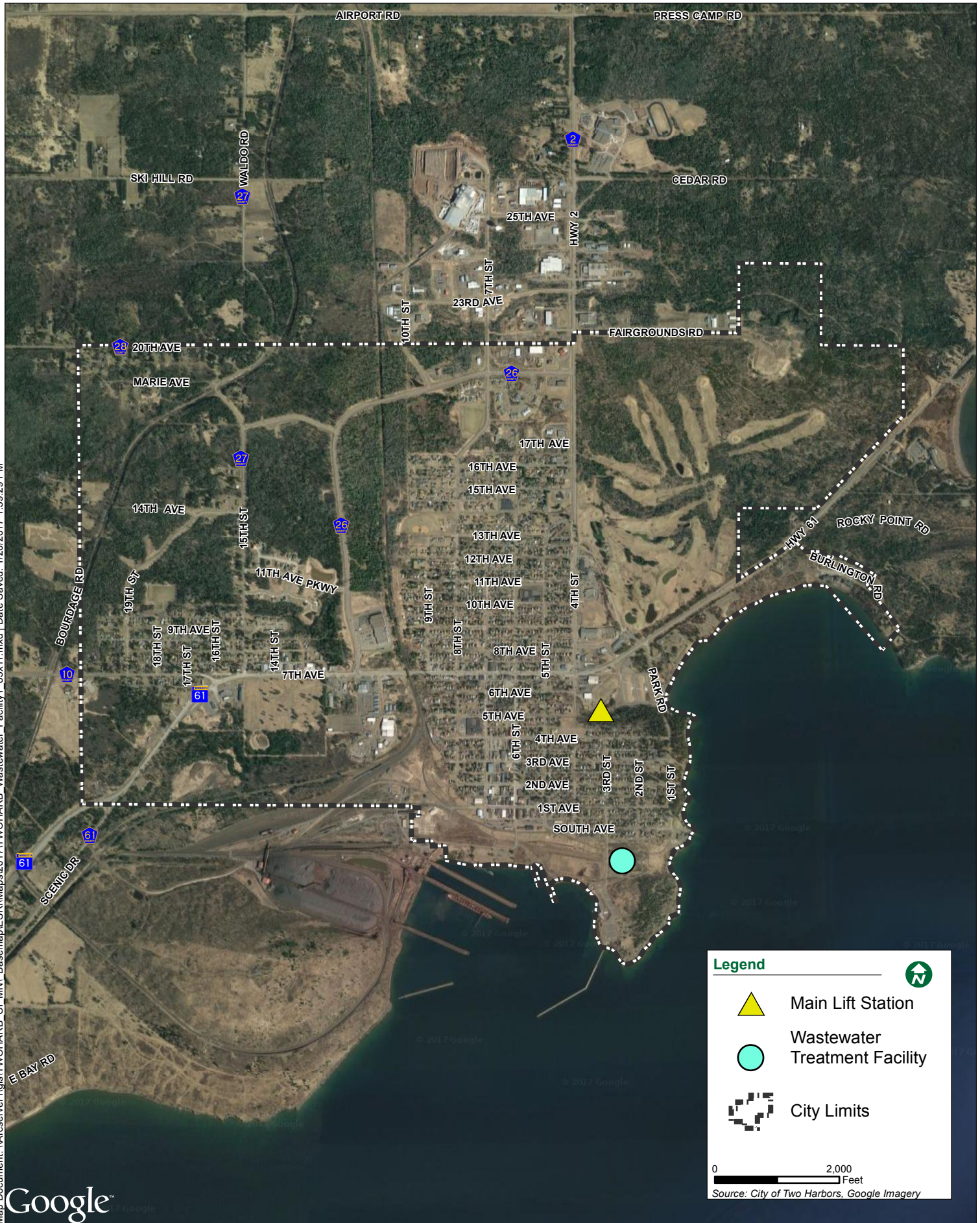
Lisa Joyal, Endangered Species Review Coordinator
Division of Ecological and Water Resources
Minnesota Department of Natural Resources
500 Lafayette Road, Box 25
St. Paul, Minnesota 55155
Review.NHIS@state.mn.us

Form is available at
http://files.dnr.state.mn.us/eco/nhnrp/nhis_data_request.pdf

Revised March 2, 2012



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Wastewater Treatment Facility

City of Two Harbors, MN

Proposed Site Plan

November, 2017



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LIGHTHOUSE POINT RD

Google


Legend



Parcels



City Limits



0 100 Feet

Source: Lake County, Google Satellite Imagery ©2017, DigitalGlobe, USDA Farm Service Agency



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7533 Sunwood Drive NW
Suite 206
Ramsey, MN 55303-5119

Ph: (763) 433-2851
Fax: (763) 427-0833
Bolton-Menk.com

Via Email

March 2, 2018

MN State Historic Preservation Office
345 Kellogg Boulevard West
St. Paul, MN 55102

RE: Two Harbors Wastewater Treatment Facility
Two Harbors, Lake County

To Whom it May Concern:

The City of Two Harbors is planning to rehabilitate the existing wastewater treatment (WWTF). The project will include demolition of some existing structures and construction of new process tanks and buildings. Associated site improvements to provide access to the new structures will be part of the project. The facility will treat wastewater and discharge treated water to Lake Superior. The project will be funded in part by the Minnesota Pollution Control Agency and the Public Facilities Authority. We are requesting an historic database search in addition to a 106 Review.

Two maps have been enclosed. The maps indicate the project location within Lake County and the City of Two Harbors.

The WWTF is located in Lake County Section 6, T52N, R.10W, NW ¼ of the SW ¼. The GPS coordinates of the facility are 47° 1' 1.49" N and 91° 39' 52.51" W.

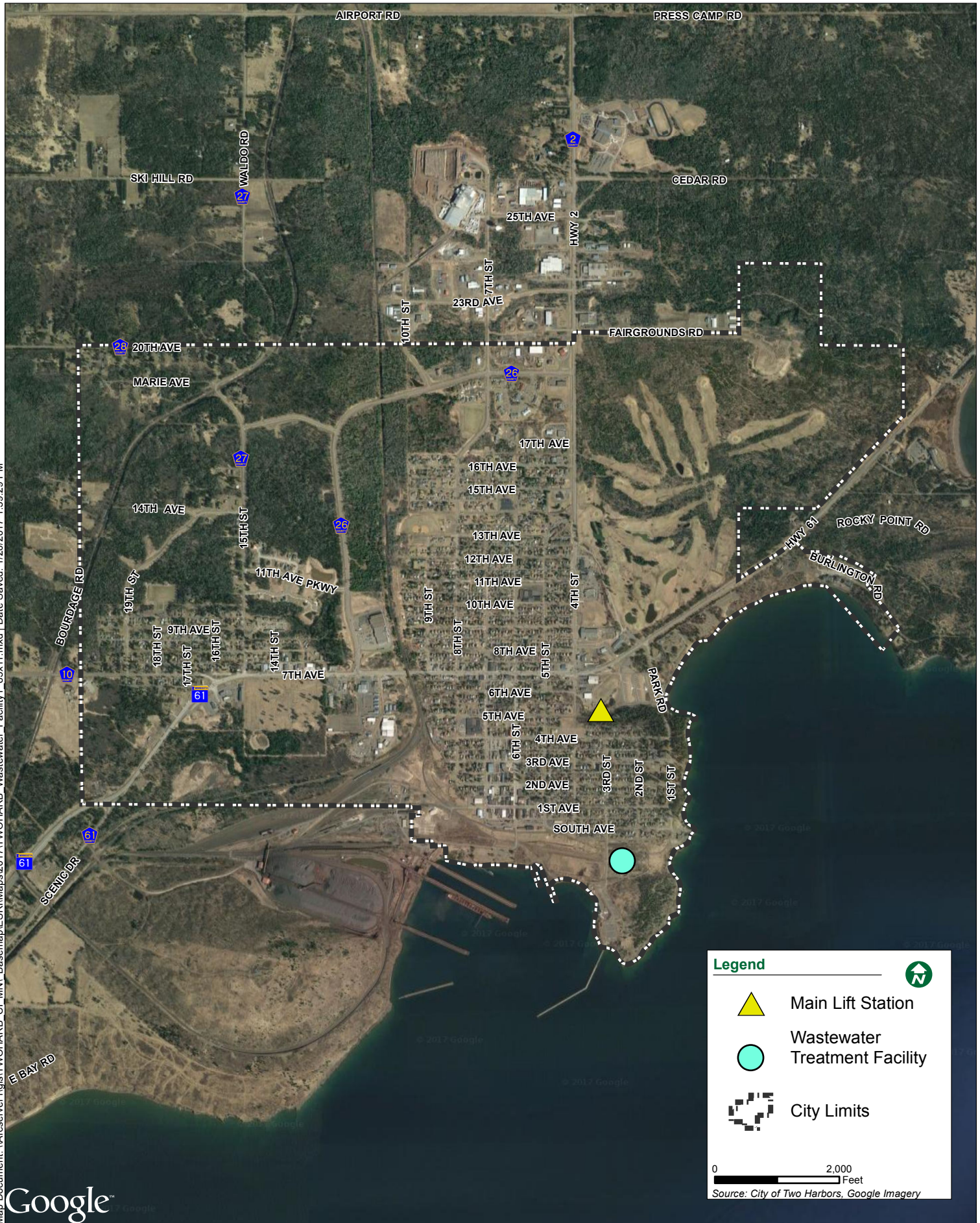
If you have any questions, please contact me at 763-433-2851 or briangu@bolton-menk.com.

Sincerely,

Brian J. Guldan, PE
Environmental Project Engineer
Bolton & Menk, Inc.



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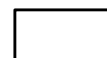


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City Limits



0 100
Feet

Source: Lake County, Google Satellite Imagery ©2017,
DigitalGlobe, USDA Farm Service Agency

Please mail the completed form and required material to:

State Historic Preservation Office
203 Administration Building
50 Sherburne Ave
St. Paul, MN 55155



Request for Project Review by the State Historic Preservation Office (SHPO)

This is a new submittal

This is additional information relating to SHPO Project #: _____

DATE: _____

I. GENERAL PROJECT INFORMATION

Project Title: _____

Project Address (or Location): _____

City / Township (circle one): _____ Zip: _____ County: _____

Legal Description: Township _____ Range _____ E/W (circle one) Section _____ Quarter-section _____

II. PROJECT CONTACT INFORMATION

Project Contact Name: _____ Title: _____

Company/Agency: _____

Street Address: _____ Phone Number: _____

City: _____ State: _____ Zip: _____ Email: _____

III. FEDERAL AND/OR STATE INVOLVEMENT

Federal Agency (if applicable): _____

(Agency providing funds, licenses, or permits)

Permit or Project Reference #: _____

State Agency (if applicable): _____

(Agency providing funds, licenses, or permits)

Permit or Project Reference #: _____

Local Agency (if applicable): _____

(Continued on Reverse Side)

Please refer to the [Instructions for Completing the Request for Project Review Form](#). Submit one *Request for Project Review* form for each project. Project submittals will not be accepted via fax or e-mail. For questions regarding the SHPO review process, please [visit our website](#) or contact Kelly Gragg-Johnson, Review and Compliance Specialist, at 651-201-3455 or kelly.graggjohnson@state.mn.us.

IV. PROJECT DESCRIPTION AND BOUNDARIES

A) REQUIRED FOR ALL PROJECTS

Write a detailed description of the proposed project. (See attached.)

Attach a map of project location, with project area(s) clearly marked. Road names must be included and legible.

B) Architecture

Are there any buildings or structures within the project area? Yes No

If **No**, continue to the Archaeology section below. If **Yes**, submit all of the following information:

List all buildings and structures within the project area and the year they were built. (See attached.)

Photographs of **each** building and structure located within the project area, along with a photo key. Include streetscape images, if applicable. All photographs must be clear, crisp, focused, and taken at ground level. Aerial photos are insufficient.

List known historic buildings or structures located within the project area (i.e., individual properties or districts which are listed in the National Register or which meet the criteria for listing in the National Register). (See attached.)

C) Archaeology

Does the proposed undertaking involve ground-disturbing activity? Yes No

If **No**, this form is complete. If **Yes**, submit all of the following information:

Attach the relevant portion of a 1:24000-scale USGS topographic map (photocopied or computer generated) **with the project boundary marked**.

Description of current and previous land use and disturbances: (See attached.)

Any available information concerning known or suspected archaeological resources within the project area. (See attached.)



0 263 Feet

Disclaimer:

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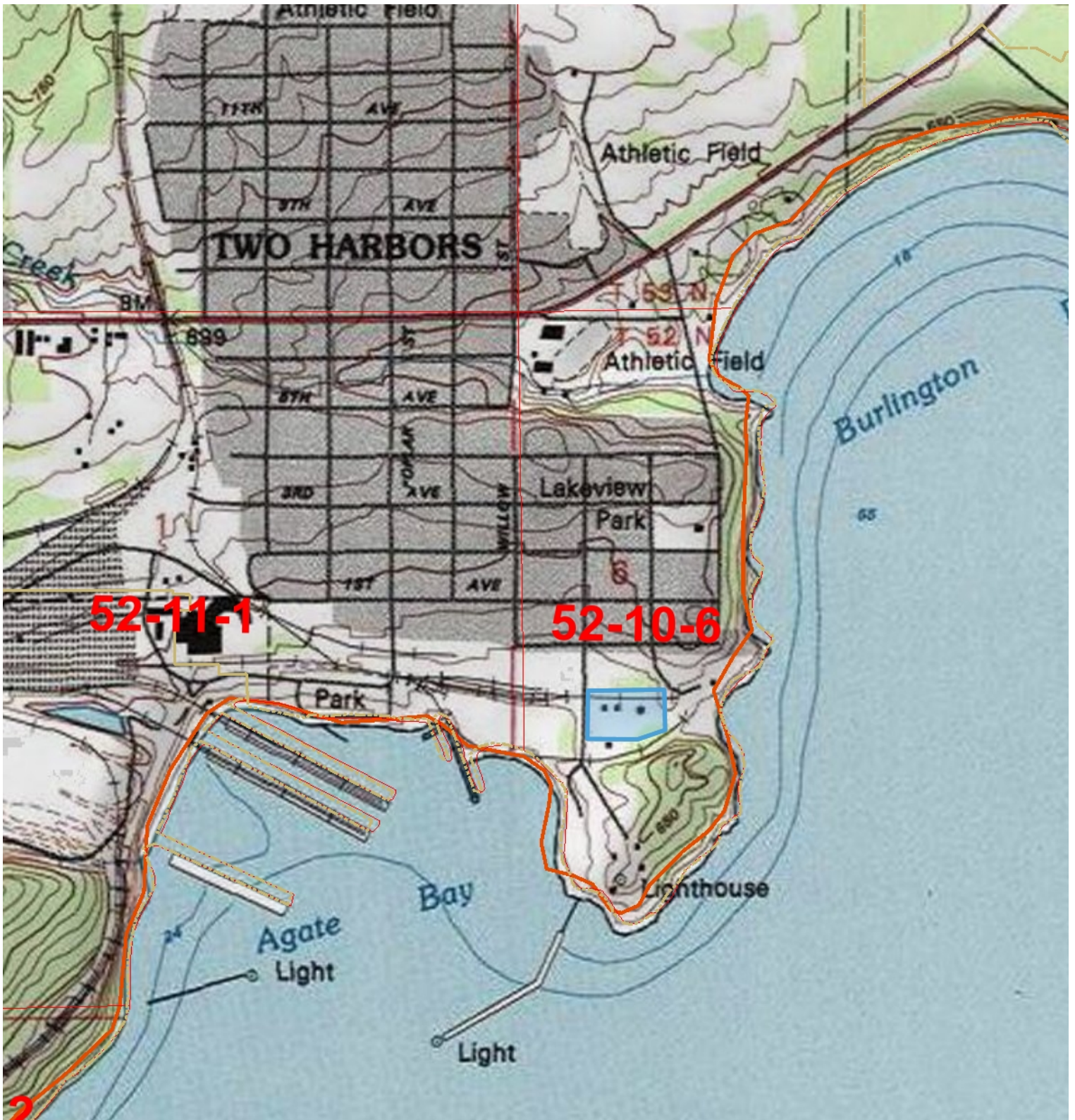
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Two Harbors - Project Location



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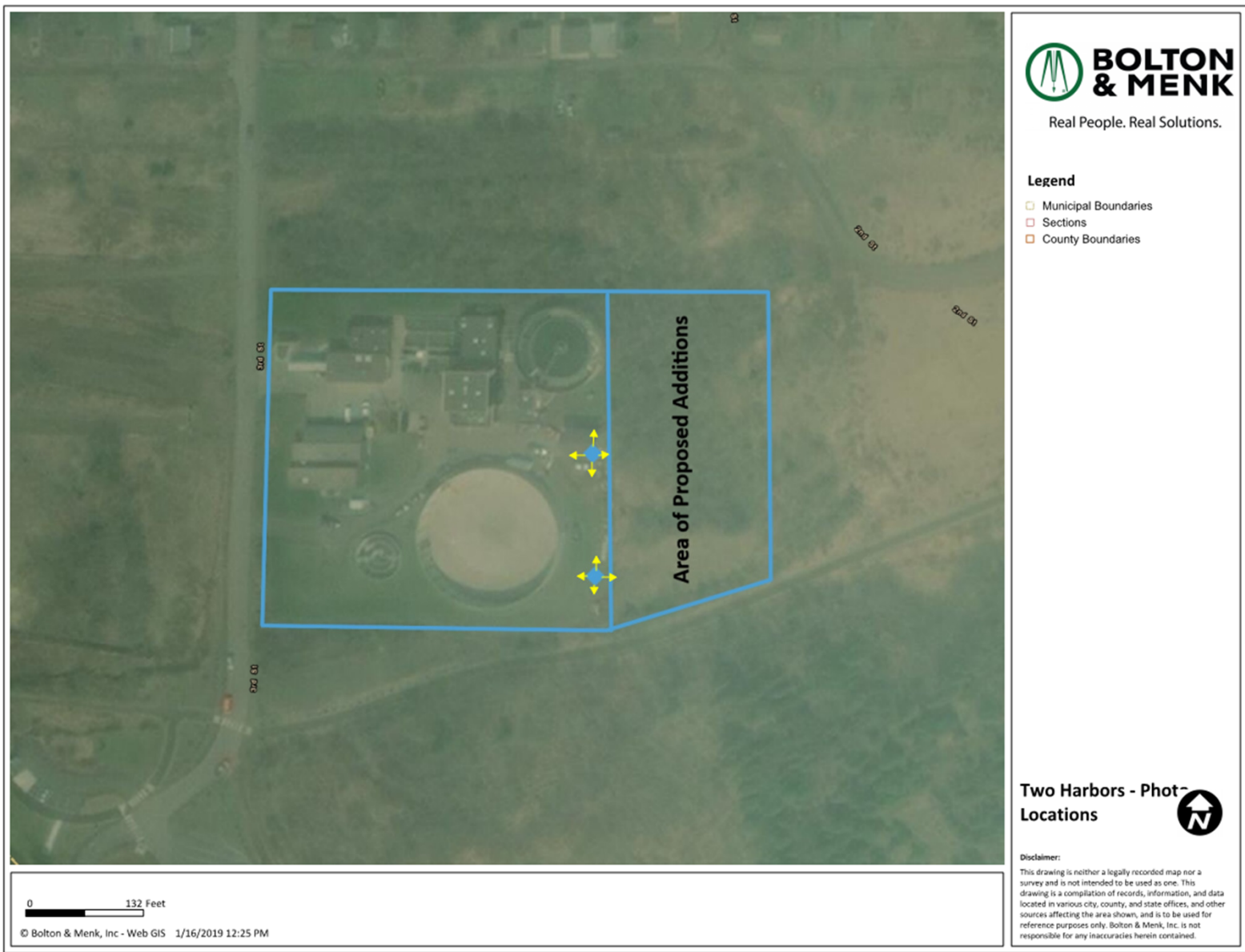
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**Two Harbors - USGS
Topographic Map**

Two Harbors WWTF Improvements

M24.112987

01/21/2019



North Location



North



East



South



West



South Location



North



East



South



West



March 15, 2019

Ms. Teresa Burgess
Bolton & Menk
1960 Premier Drive
Mankato, MN 56001

RE: Wastewater Treatment Facility Improvements
T52 R10 S6, City of Two Harbors, Lake County
SHPO Number: 2019-0895

Dear Ms. Burgess:

Thank you for the opportunity to comment on the above project. It has been reviewed pursuant to the responsibilities given the State Historic Preservation Officer by the National Historic Preservation Act of 1966 and implementing federal regulations at 36 CFR 800, and to the responsibilities given the State Historic Preservation Office by the Minnesota Historic Sites Act and the Minnesota Field Archaeology Act.

Based on information that is available to us at this time, we have determined that **no historic properties will be affected** by the proposed project.

Please contact our Environmental Review Program at (651) 201-3285 if you have any questions regarding our review of this project.

Sincerely,

Sarah J. Beimers

Sarah J. Beimers
Environmental Review Program Manager

cc: Bill Dunn, MPCA



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& MENK**

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1960 Premier Drive
Mankato, MN 56001-5900

Ph: (507) 625-4171
Fax: (507) 625-4177
Bolton-Menk.com

February 15, 2019

Attention: Tribal Historic Preservation Officer
Fond du Lac Band of Lake Superior Chippewa Indian Community
1720 Big Lake Road
Cloquet, MN 55720

RE: Wastewater Treatment Facility Improvements
City of Two Harbors, Lake County
Township 52N Range 10N Section 6

We are initiating consultation on this project under Section 106 of the National Historic Preservation Act and implementing regulations at 36 CFR 800. As part of this review process, the MN Pollution Control Agency has provided your contact information and requested that we contact you for input on this project.

This project is proposed to be being funded with federal dollars. Below is the information about this project:

Project title: City of Two Harbors Wastewater Facility Improvements

Detailed project description: This project includes the rehabilitation of existing wastewater treatment facilities and the addition of new facilities such as an aeration basin, final clarifiers, and biosolids processing facilities. The only buildings within the project area are the current wastewater treatment facilities. There are no known historic buildings or structures located within the project area. The land has been previously disturbed by construction activity. There are no known or suspected archaeological resources within the project area.

The following items are included to assist your review:

- USGS map with the project location shown
- Aerial map with the project location shown
- Project site plan
- Photos of existing site location

Please send any comments or questions to:

Teresa J. Burgess, PE, CPESC
Bolton & Menk, Inc.
1960 Premier Drive
Mankato, MN 56001
teresa.burgess@bolton-menk.com
507-625-4171 ext. 2638

Sincerely,

A handwritten signature in black ink, appearing to read 'TJ Burgess', written over a horizontal line.

Teresa J. Burgess, PE, CPESC
Senior Project Engineer



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1960 Premier Drive
Mankato, MN 56001-5900

Ph: (507) 625-4171
Fax: (507) 625-4177
Bolton-Menk.com

February 15, 2019

Attention: Tribal Historic Preservation Officer
Grand Portage Band of Lake Superior Chippewa Indian Community
PO Box 428
83 Stevens Avenue
Grand Portage, MN 55605

RE: Wastewater Treatment Facility Improvements
City of Two Harbors, Lake County
Township 52N Range 10N Section 6

We are initiating consultation on this project under Section 106 of the National Historic Preservation Act and implementing regulations at 36 CFR 800. As part of this review process, the MN Pollution Control Agency has provided your contact information and requested that we contact you for input on this project.

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Bolton & Menk, Inc.
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Mankato, MN 56001
teresa.burgess@bolton-menk.com
507-625-4171 ext. 2638

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Teresa J. Burgess, PE, CPESC
Senior Project Engineer



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1960 Premier Drive
Mankato, MN 56001-5900

Ph: (507) 625-4171
Fax: (507) 625-4177
Bolton-Menk.com

February 15, 2019

Attention: Tribal Historic Preservation Officer
Bois Forte Band of Chippewa Indian Community
1500 Bois Forte Road
Tower, MN 55790

RE: Wastewater Treatment Facility Improvements
City of Two Harbors, Lake County
Township 52N Range 10N Section 6

We are initiating consultation on this project under Section 106 of the National Historic Preservation Act and implementing regulations at 36 CFR 800. As part of this review process, the MN Pollution Control Agency has provided your contact information and requested that we contact you for input on this project.

This project is proposed to be being funded with federal dollars. Below is the information about this project:

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The following items are included to assist your review:

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- Aerial map with the project location shown
- Project site plan
- Photos of existing site location

Please send any comments or questions to:

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Bolton & Menk, Inc.
1960 Premier Drive
Mankato, MN 56001
teresa.burgess@bolton-menk.com
507-625-4171 ext. 2638

Sincerely,

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Teresa J. Burgess, PE, CPESC
Senior Project Engineer



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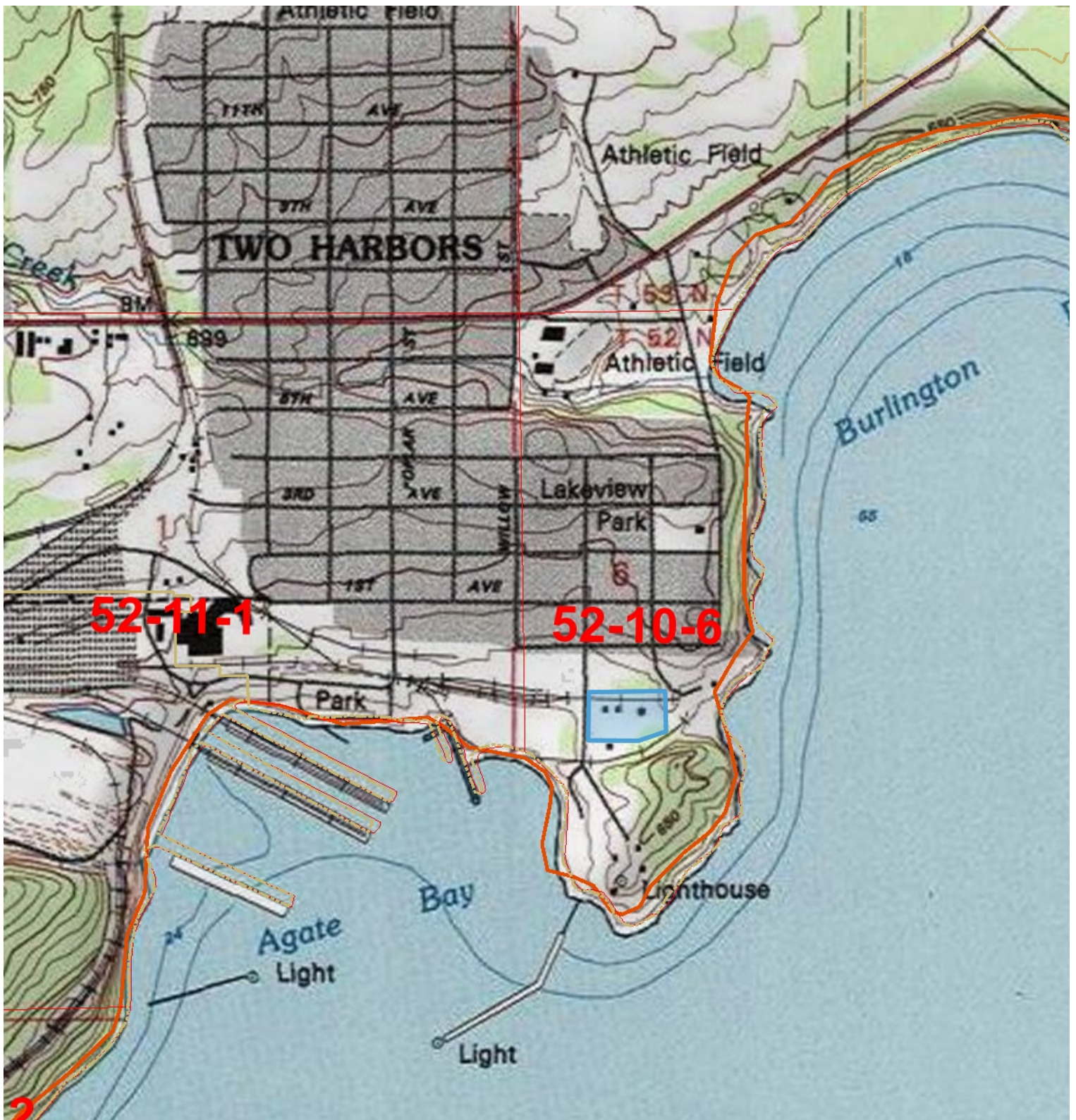
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Two Harbors - Project Location



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**Two Harbors - USGS
Topographic Map**



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Two Harbors WWTF Improvements

M24.112987

01/21/2019



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Legend

- Municipal Boundaries
- Sections
- County Boundaries

**Two Harbors - Photo-
Locations**



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North Location



North



East



South



West



South Location



North



East



South



West





Bois Forte

TRIBAL HISTORIC PRESERVATION OFFICE

March 6, 2019

Teresa J. Burgess, PE, CPESC
Bolton & Menk, Inc.
1960 Premier Drive
Mankato, MN 56001

**RE: Wastewater Treatment Facility Improvements
City of Two Harbors, Lake County
T 52N, R 10N, S 6**

Dear Ms. Burgess;

The Bois Forte Tribal Historic Preservation Office (THPO) has reviewed the above project where the City of Two Harbors Wastewater Treatment Facility Improvements including rehabilitation of existing wastewater treatment facilities and the addition of new facilities.

THPO staff reviewed our files and is not aware of cultural or religious places of interest to the Bois Forte Band within the project Area of Potential Effect (APE). However it appears that the expansion will occur in previously undisturbed areas and we recommend that a Phase I cultural resource investigation occur prior to ground disturbance.

Thank you for the opportunity to comment. Should you have any questions, please do not hesitate to contact me at 218-753-6017 or blatady@boisforte-nsn.gov.

Sincerely,

Bill Latady

Bev Latady
Tribal Historic Preservation Officer



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12224 Nicollet Avenue
Burnsville, MN 55337-1649

Ph: (952) 890-0509
Fax: (952) 890-8065
Bolton-Menk.com

May 10, 2019

Bois Forte Tribal Historic Preservation Officer
Bill Latady
1500 Bois Forte Road
Tower, MN 55790

RE: Two Harbors Wastewater Facility Improvements
SHPO Number: 2019-0895

Bolton & Menk is providing support to the City of Two Harbors as it seeks to make improvements to its existing wastewater treatment facility (WWTF). Proposed improvements include the development of a parcel directly east of the current WWTF for a biosolids storage tank, aeration basins, and a new final clarifier, along with related piping. The total project area is approximately 1 acre in size (150 feet in width, 360 feet in length at the longest point) (**Figure 1**). The project is located in T52N, R10W, Section 6, Lake County, Minnesota (**Figure 2**). The project will be funded, in part, by the Public Facilities Authority Clean Water Revolving Fund.

The Tribal Historic Preservation Office (THPO) requested a survey of the area. The State Historic Preservation Office reviewed the project (2019-0895) but no survey was requested, and a determination of no historic properties affected was provided. A Phase I Archaeological Survey was conducted on May 7, 2019. This letter report of the archaeological survey activities meets the guidelines provided by SHPO.¹

Recommended Area of Potential Effects

The Area of Potential Effects (APE) includes the entire 1-acre area proposed for new ground disturbance (**Figure 1**). New construction will take place from the existing facility to the east, including the relocation and improvement of certain portions of the existing facility. Topography in the area is mostly flat within the existing WWTF and slightly undulating to the east, with the highest portion occurring in the northeast corner of the project area (**Figure 2**).

The APE is in the SHPO Region 9n (Lake Superior Shore north). Recorded precontact archaeological sites in this region are scarce. The project area contains a large delineated wetland. Ground disturbance/modification near the project area appears to be limited to the construction of the WWTF and a trail immediately to the south of the project area. Historic aerial imagery does not reveal additional ground disturbing activities. Based on offsite review, the APE appears to have high probability to contain archaeological sites.²

Known Cultural Resources & Prior Surveys

There are no reported archaeological surveys that have included the current project area. The OSA Portal was searched for archaeological sites recorded through May 2019, within one mile of the survey area. There are three known archaeological sites, and one alpha site, within a mile of the project area. The nearest site, 21LA0541 (Agate Bay/Whiskey Row) is approximately 450 feet to the west of the project

¹ 2005. Scott Anfinson. *SHPO Manual for Archaeological Project in Minnesota*. Minnesota Historical Society.

² 2019. MnModel Phase 3 Layer on OSA Portal. Model created by: Elizabeth Hobbs, Craig M. Johnson, Guy E. Gibbon, Carol Sersland, Mark Ellis, and Tatiana Nawrocki. Hardwood Hills Subsection of Minnesota & NE Iowa Morainal Section. In *MnModel Final Report Phases 1-3, 2002: A Predictive Model of Precontact Archaeological Site Location for the State of Minnesota*. Edited by G. Joseph Hudak, Elizabeth Hobbs, Allyson Brooks, Carol Ann Sersland, and Crystal Phillips. Electronic resource at URL: <https://osa.gisdata.mn.gov/OSAportal/mapbuilder/index.html>, accessed May 8, 2019.

area (**Table 1**). Whiskey Row is an 1880's townsite, buried under a concrete slab that was used for coal storage for around 100 years.³ Geophysical survey and archaeological work at 21LA0541 was conducted in 2007.

Table 1: Known Historic Properties

Site Number	Known Site Acreage	Site Description	Distance to APE
21LA0025	10	Duluth and Iron Range Railroad Complex (Iron Range and North Shore Settlement)	0.5 miles
21LA0026	1	Samuel P. Ely Shipwreck (Iron Range and North Shore Settlement)	0.7 miles
21LA0541	4.6	Agate Bay/Whiskey Row (Railroad and Agricultural Development & Iron Range and North Shore Settlement)	450 feet
21LA	1	Lewie (Shipwreck/Submerged Features) (Iron Range and North Shore Settlement)	0.3 miles

Fieldwork Results

Jammi Ladwig conducted the archaeological survey on May 7, 2019. Current vegetation is a mix of prairie grass, stands of trees, and manicured lawn (**Figures 3 and 4**). The ground surface visibility in the APE was poor due to ground cover, and shovel testing was employed.

Shovel tests were spaced at approximately 15 meters in areas that permitted testing, and a total of eight (8) tests were excavated. Much of the area contained standing water, associated with the wetland complex present within the project area (**Figures 5 and 6**). Shovel tests terminated due to inundation in much of the project area, with an additional three meeting resistance due to large rocks. Soil profiles in the northern portion of the project area demonstrated a dark (10YR 2/1) silt loam with roots and modern debris, over a red (5YR 4/4) compact clay that was sterile, which was inundated at an average depth of 35 centimeters below the surface (cmbs). In the southern portion of the APE, in the area of manicured lawn (STs 7 and 8), the soil profiles were clearly disturbed, with ST 7 yielding a layer of thick plastic at 39 cmbs, which covered clay and wetland soils, again terminating due to inundation.

The area appears to have been a wetland for a significant amount of time, with trees/shrubs in the area being a recent occurrence (past 20 to 30 years). The soil profiles revealed in the course of shovel testing demonstrate that areas within the APE not associated with the wetland complex are not natural and were brought into the area to create more dry land.

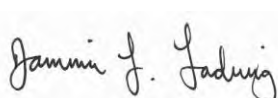
Recommendations

No archaeological sites were identified during the survey, and the landform was found to be not natural and previously disturbed (i.e. fill brought in to top a wetland). The project will not impact known or suspected archaeological sites. No further investigation is recommended.

Sincerely,
Bolton & Menk, Inc.



Austin Jenkins, MS
Principal Investigator



Jammi Ladwig, MA
Cultural Resources Specialist

CC: Sarah Beimers, Minnesota SHPO

³ 2008. Grady Larimer. 21LA0541 Site Form. On file at the State Historic Preservation Office and available through OSA Portal. Electronic resource at URL: <https://osa.gisdata.mn.gov/OSAportal/ArchSites/Details/27778>, accessed May 8, 2019.



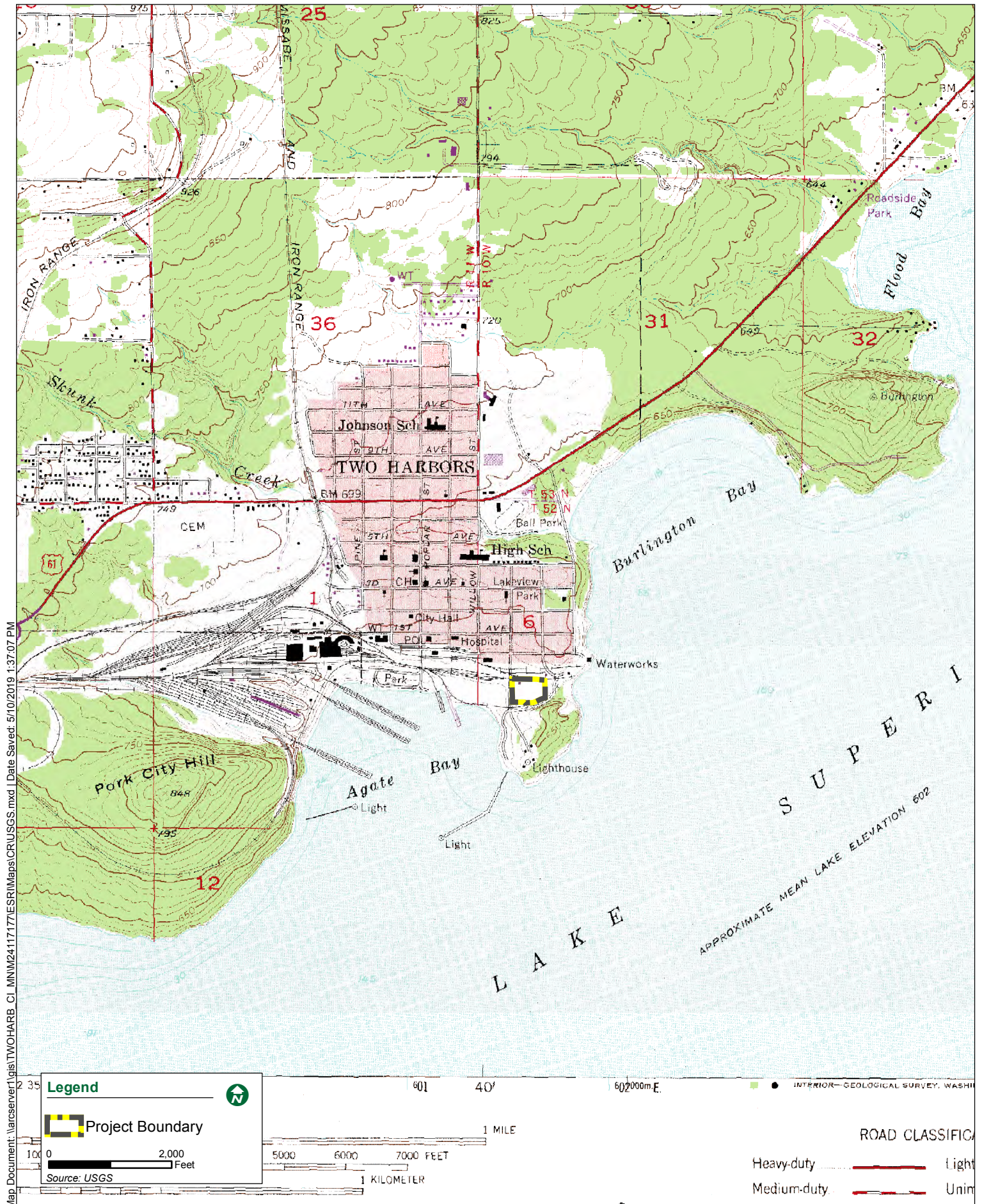


Figure 3: Grasses and Trees in Northern Portion of APE



View to the south within the project area.

Figure 4: Lawn in Southern Portion of APE



View to the east in the southern portion of the project area; location of STs 7 and 8.

Figure 5: Wetland



View to the north from the southern portion of the APE, showing wetland extent.

Figure 6: Wetland



View of wetland present within much of project APE.