



State Revolving Fund Loan Programs Drinking Water, Wastewater, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

TOWN OF BREMEN WATER TREATMENT PLANT IMPROVEMENTS AND NEW WELLS PRELIMINARY ENGINEERING REPORT STATE REVOLVING FUND PROJECT # DW 15 02 50 01

DATE: September 17, 2014

TARGET APPROVAL DATE: October 17, 2014

I. INTRODUCTION

The above entity has applied to the State Revolving Fund (SRF) Loan Program for a loan to finance all or part of the wastewater project described in the Environmental Assessment (EA) attached to this Finding of No Significant Impact (FNSI). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA, which can also be viewed in color at <http://www.in.gov/ifa/srf/>.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The SRF has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 4-4-11, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FNSI. Comments must be received at the address below by the target project approval date. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

April Douglas
Senior Environmental Manager
State Revolving Fund -- IGCN 1275
100 N. Senate Ave.
Indianapolis, IN 46204
317-234-7294
adouglas@ifa.in.gov



State Revolving Fund Loan Programs Drinking Water, Wastewater, Nonpoint Source

PROJECT SUMMARY FOR ENVIRONMENTAL REVIEW

TOWN OF BREMEN PRELIMINARY ENGINEERING REPORT Water Treatment Plant Improvements and New Wells STATE REVOLVING FUND PROJECT # DW 15 02 50 01

I. PROJECT LOCATION

The Town of Bremen is located in German Township in Marshall County in Township 35 N, Range 3 E, in Section 35 on the Bremen Quadrangle map, See Figure 1.

II. PROJECT NEED AND PURPOSE

The Town's proposing to construct a new water treatment facility and well.

The scope of work in this project involves the construction of a new water treatment plant, one new water supply well, 10" force main from the well to the new plant, and a line from the backwash water holding tanks to the sewer.

The existing water treatment plant was constructed in 1965 with the addition of a third filter unit in 1980. The existing wells were placed in service in 1952, 1961, and 2003. The plant and two of the three wells have outlived their useful lives.

III. PROJECT DESCRIPTION

The proposed projects include installation of water supply wells, 10" force main from the wells to the plant, upgrades at the Water Treatment Plant (WTP), and a line from the backwash water holding tanks to the sewer.

This project consists of the construction of a new water treatment plant and well at the site of the existing ground storage reservoir. The existing plant and wells will remain in service until such time that they are no longer usable. The plant will be rated to treat 1,000 gallons per minute, identical to the existing plant, and will include aeration, detention, filtration, and disinfection. The existing ground storage reservoir and distribution system piping and storage will continue to be utilized; see Figure 2.

IV. ENVIRONMENTAL IMPACTS OF THE PROJECT

A. Direct Impacts of Construction and Operation

Disturbed/Undisturbed Land: The improvements proposed will be constructed on previously

disturbed land at the existing reservoir. Borrow soil is not anticipated to be required for construction. Granular backfill will be from a commercial source. No previously undisturbed land is anticipated to be affected by the proposed project.

Structural Resources (Figure 3): The proposed project will not affect historic sites or districts, including sites on or eligible for listing on the National Register of Historic Places, according to the Marshall County Interim Report and the historic sites information on the website of the Indiana Department of Natural Resources Division of Historic Preservation and Archaeology. The SRF's finding pursuant to Section 106 of the National Historic Preservation Act is: "*no historic properties affected.*"

Surface Waters: No surface water is near the project site. Construction projects are not expected to have any detrimental, long term impacts on surface waters. Short term impact will relate only to excavation activities for the installation of the proposed facilities and will be minimal. These impacts can be easily mitigated through the use of appropriate techniques for erosion control and surface restoration during and following construction.

The project will not adversely affect Outstanding State Resource Waters (327 IAC 2-1.3-3(d)), Exceptional Use Streams (327 IAC 2-1-11(b)), Natural and Scenic Recreational Rivers and Streams (312 IAC 7-2), Salmonid Stream (327 IAC 2-1.5-5(a)(3)), or waters on the Outstanding Rivers list (NRCS Non- Rule Policy Document).

Wetlands (Figure 4): According to the US Fish and Wildlife National Wetlands Inventory, the planning area contains several wetland areas. However, as shown in Figure 4, the proposed project area does NOT contain wetlands. Special attention should be given to the existing wetlands in the planning area since the overall reduction of wetland area is prohibited by Federal law and should be avoided.

The majority of all wetlands located within the planning area are classified as freshwater, forested and shrub wetlands and are located mainly along the banks of the Yellow River. The southern and northern portions of the planning area contain a higher concentration of wetlands.

Wetlands will not be affected by construction or operation of this project.

Floodplain (Figure 5): According to the Federal Emergency Management Agency Flood Insurance Rate Maps, the Town of Bremen is located in an area of minimal flood hazard, with the largest flood plain areas located west of the Yellow River and outside of the corporate limits. Narrow bands of designated floodway also exist along Armev Ditch as shown in Figure 5.

No proposed structures will be within the floodplain.

Groundwater: The USDA-NRCS publishes measured depth to water table data for the project area. The proposed project area is found to have a water table between 100 and >200 centimeters deep.

If dewatering is required to complete construction, dewatering flows will be discharged to a settling basin prior to being discharged to surface water. The amount of dewatering is anticipated to be minimal. Therefore, dewatering due to construction is not expected to cause long term detriment to the groundwater table of local wells.

No sole sourced aquifers will be affected by the proposed project.

Plants and Animals: The Preliminary Engineering Report (PER) states: *All construction activity performed as a result of recommendations of this PER will be completed on property presently owned by the Town or on easements. The project will be located in previously disturbed areas and wetlands will be avoided. No scrub, shrub, or wooded land is located near the project and will therefore not be affected by this project. The project will be implemented to minimize impact to non-endangered species and their habitat. Mitigation measures cited in comment letters from the Indiana Department of Natural Resources and the U.S. Fish and Wildlife Service will be implemented.*

Prime Farmland: The project will not convert prime farmland.

Air Quality: We evaluated air quality impacts from the proposed project for conformance with applicable Rules under Title 326 Articles 1, 2, 6, 7, and 8 of the Federal 1990 Clean Air Act Amendments.

1. Construction Activity

To minimize non-conformance with 326 IAC 6-4, "Fugitive Dust Emissions", reasonable and proper construction techniques and clean up practices will be provided. In addition, surface wetting practices will be utilized to control dust emissions where required. Please note that 326 IAC 6-4-6(3) provides for an exemption to the rule "...from construction or demolition activity where every reasonable precaution has been taken in minimizing fugitive dust emissions". Exhausts of construction equipment will be required to have mufflers for noise and air pollution abatement.

2. Clean Air Act Title III - Hazardous Air Pollutants

Title III calls for a program to prevent the accidental releases of hazardous air pollutants from facilities. We do not anticipate use of chemicals in the project that may release hazardous air pollutants as defined by EPA's Hazardous Air Pollutant Listing. If potential hazardous air pollutants are used on the project, we will require monitoring, record keeping, reporting, and vapor recovery, secondary containment, design, equipment, work practices and operation according to Federal Standards.

Open Space and Recreational Opportunities: The proposed project is located adjacent to a recreational area. A covered picnic shelter located on the proposed project site will be relocated to the adjacent park area. Further, the surface of the reservoir is presently used as a skateboarding area. With the construction of the new facilities, access to the site will be limited due to chemicals in the new treatment facility, mechanical, and electrical safety concerns, and the skateboarding area will be re-located off the water utility's property. The adjacent open spaces and recreational areas (parks, ball diamonds, etc.) will not be affected by this project.

National Natural Landmarks: Construction and operation of the proposed project will not affect National Natural Landmarks.

B. Indirect Impacts

The Water Authority's PER states: *The Town of Bremen, through the authority of its council, planning commission, or other means will ensure that future development, as well as future collection system or treatment works projects connecting to SRF-funded facilities, will not adversely impact wetlands, wooded areas, steep slopes, archaeological/historical/structural resources, or other sensitive environmental resources. The Town will require new development*

and treatment works projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental review authorities.

C. Comments from Environmental Review Authorities

The Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology (DHPA), in correspondence dated September 12, 2014, stated: *Pursuant to IC 13-18-21 and 327JAC 14 and Section 106 of the National Historic Preservation Act (16 U.S.C. § 470f) and 36 C.F.R. Part 800, the Indiana State Historic Preservation Officer ("Indiana SHPO") is conducting an analysis of the materials dated and received by the Indiana SHPO on August 19, 2014, for the above indicated project in Bremen, German Township, Marshall County, Indiana.*

The U.S. Fish and Wildlife Service, in correspondence dated July 31, 2014, stated: *These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (16 U.S.C. 661 et. seq.) and are consistent with the intent of the National Environmental Policy Act of 1969, the Endangered Species Act of 1973, and the U. S. Fish and Wildlife Service's Mitigation Policy.*

The proposed project consists of construction of a new water treatment plant, 1 new water supply well, a new force main between the well and the plant, and a line from the backwash water holding tanks to the sewer. The new plant and well will be constructed at the site of the existing ground water storage reservoir, which is adjacent to recreation fields at Alexander and Lincoln Streets within the developed community of Bremen.

Since no wetlands or other significant wildlife habitat types are present within the proposed project area, the U.S. Fish and Wildlife Service has no objections to the awarding of this SRF grant.

ENDANGERED SPECIES

*The proposed project is within the range of the Federally endangered Indiana bat (*Myotis sodalis*), clubshell mussel (*Pleurobema clava*), and rayed been mussel (*Villosa fabalis*), the proposed endangered northern long-eared bat (*Myotis septentrionalis*), and the candidate eastern massasauga rattlesnake (*Sistrurus catenatus*). There is no habitat for any of these species within the proposed project area; therefore, we concur with your determination that the proposed project is not likely to adversely affect these endangered, proposed endangered, and candidate species.*

This precludes the need for further consultation on this project as required under Section 7 of the Endangered Species Act of 1973, as amended. However, should new information arise pertaining to project plans or a revised species list be published, it will be necessary for the Federal agency to reinstate consultation.

In correspondence dated January 10, 2014, the Department of Natural Resources Environmental Unit stated: *Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.*

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

Regulatory Assessment: Formal approval by the Department of Natural Resources under the regulatory programs administered by the Division of Water is not required for the construction

of this project. However, the well and pumping equipment must be installed by a water well driller and water well pump installer, respectively, that are licensed in the State of Indiana, and they must be constructed in accordance with IC 25-39 and Rule 312 IAC 13.

Fish & Wildlife Comments: The measures below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:

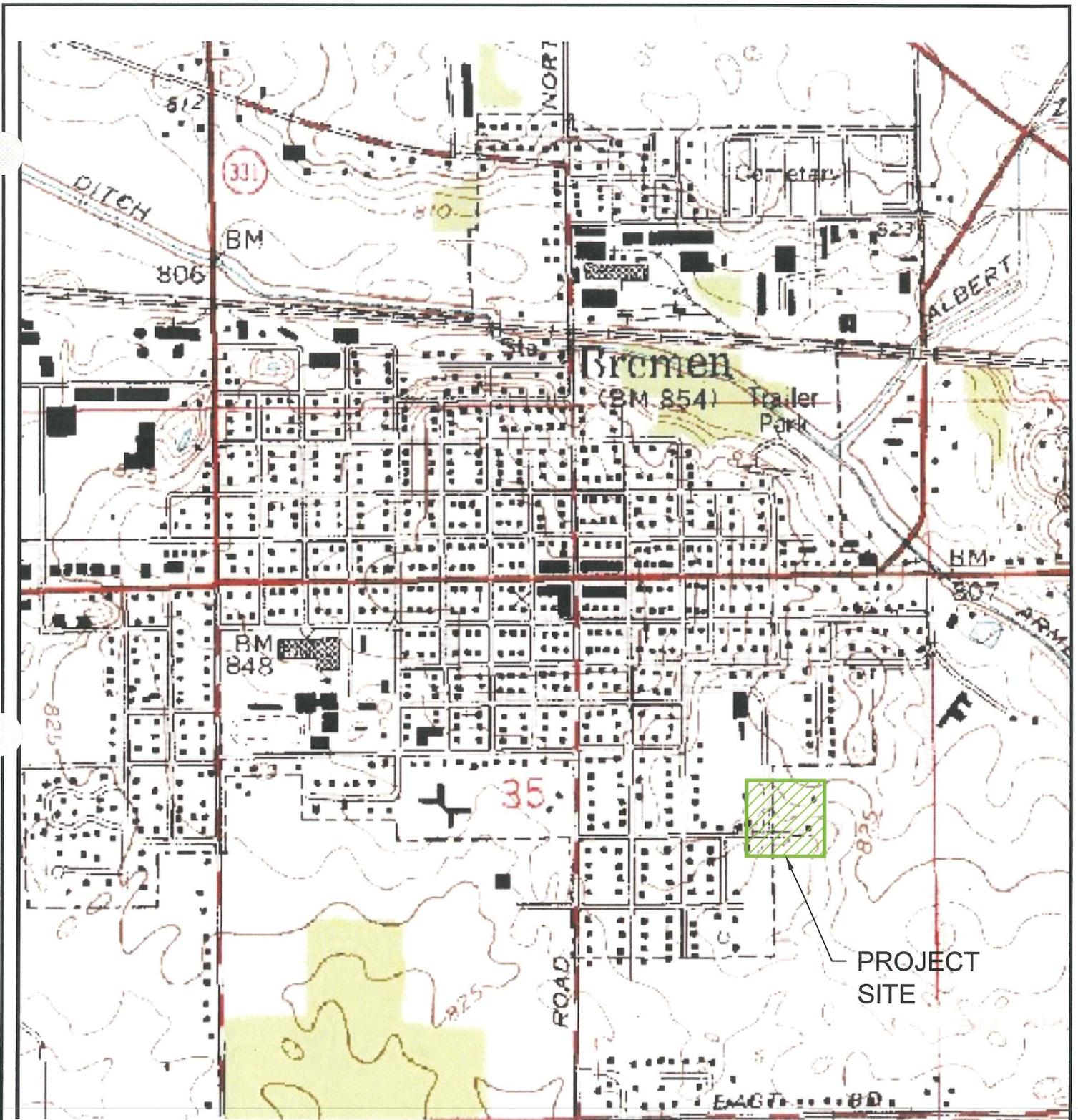
1. *Revegetate all bare and disturbed areas with a mixture of grasses (excluding all varieties of tall fescue) and legumes as soon as possible upon completion; low endophyte tall fescue may be used in the ditch bottom and side slopes only.*
2. *Minimize and contain within the project limits all tree and brush clearing.*
3. *Do not cut any trees suitable for Indiana bat roosting (greater than 3 inches dbh, living or dead, with loose hanging bark) from April 1 through September 30.*
4. *Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.*
5. *Plant five native trees, at least 2 inches in diameter-at-breast height, for each tree which is removed that is ten inches or greater in diameter-at-breast height.*

In correspondence dated June 12, 2014, the Natural Resources Conservation Service stated: *The proposed project regarding a new well and water treatment facilities adjacent to the existing water reservoir in the Town of Bremen ... will not cause a conversion of prime farmland.*

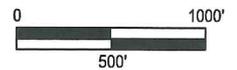
V. MITIGATION MEASURES

The Town of Bremen's PER states:

The majority of the environmental impacts will occur during construction of the proposed improvements. These issues will be temporary in nature, since no significant impacts to environmental, historical, or other regulated resources are involved. These temporary construction impacts include the potential for noise, dust, and construction site erosion. Provisions will be included in the construction specifications to limit such problems and to provide erosion control in accordance with current state standards. The work is expected to be completed during normal working hours, restricting any work related nuisances to those hours. All construction equipment will be required to have mufflers to reduce noise pollution. Additionally, reasonable and proper construction techniques and clean up practices will be required by the contractor to reduce dust emissions. Proper surface wetting practices will be required. Erosion control measures including seeding, drainage inlet protection, and silt fencing will also be utilized.



MAP SOURCE
INDIANA MAP



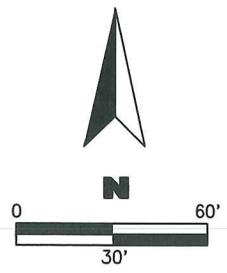
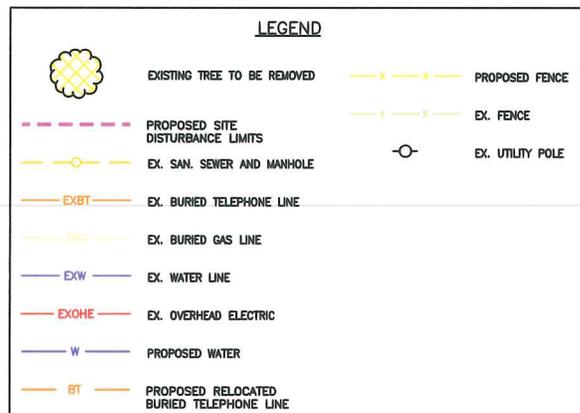
7256 Company Dr. Indianapolis, IN 46237 (317) 888-1177
 101 Plaza East Blvd. Ste. 200 Evansville, IN 47715 (812) 474-1177
 9604 Coldwater Road, Ste. 203 Fort Wayne, IN 46825 (260) 494-3223

TOWN OF BREMEN, INDIANA
PUBLIC WATER SUPPLY STUDY

FIGURE 11 - TOPO
MAP

FIGURE

1



MAP SOURCE
INDIANA MAP

SUBMITTAL DATE: 7-16-14
REVISED DATE: 8-6-14

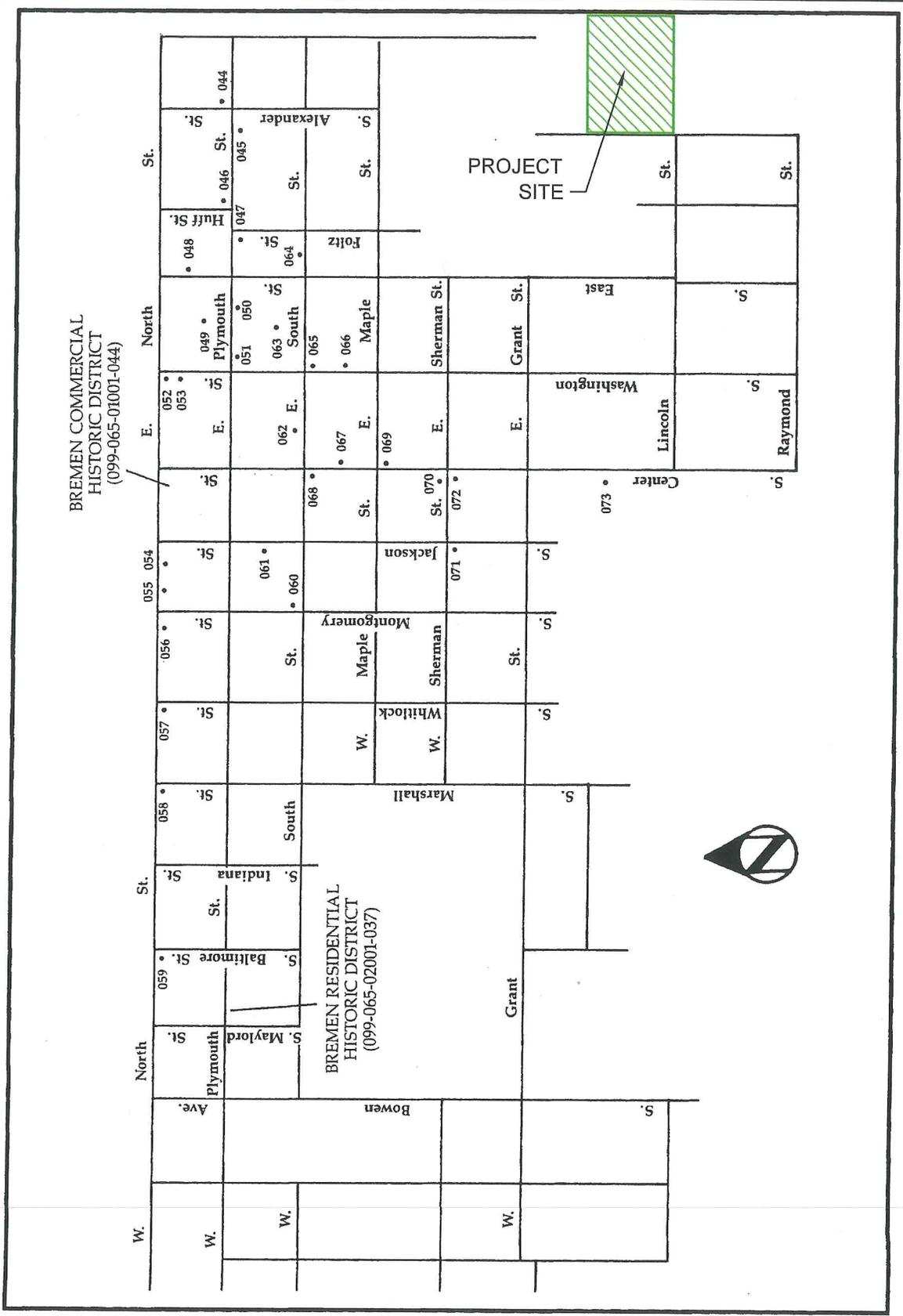
7256 Company Dr. Indianapolis, IN 46237 (317) 698-1177
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TOWN OF BREMEN, INDIANA
PUBLIC WATER SUPPLY STUDY

FIGURE 14 - PROPOSED PROJECT

FIGURE
2

Bremen Scattered Sites (03044-073)



MAP SOURCE:
MARSHALL COUNTY INTERIM REPORT

7256 Company Dr.
Indianapolis, IN 46237
(317) 858-1177

101 Plaza East Blvd, Ste. 200
Evansville, IN 47716
(812) 474-1177

9604 Coltwater Road, Ste. 203
Fort Wayne, IN 46825
(260) 464-3223

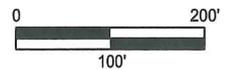
TOWN OF BREMEN, INDIANA
PUBLIC WATER SUPPLY STUDY

FIGURE 9B - INTERIM REPORT
MAP

FIGURE
3



* NO WETLANDS IN AREA



MAP SOURCE
INDIANA MAP



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TOWN OF BREMEN, INDIANA
PUBLIC WATER SUPPLY STUDY

FIGURE 4 - WETLANDS
MAP

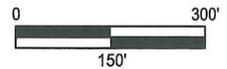
FIGURE

4



* AREA NOT IN FLOODPLAIN

MAP SOURCE
INDIANA MAP



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TOWN OF BREMEN, INDIANA
PUBLIC WATER SUPPLY STUDY

FIGURE 5 - FLOODPLAIN
MAP

FIGURE

5