



# State Revolving Fund Loan Programs

## Drinking Water, Wastewater, Nonpoint Source

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### ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

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#### TOWN OF ANDREWS Water Treatment Plant Improvements SRF PROJECT DW 16 09 35 01

**DATE: August 9, 2016**

**TARGET PROJECT APPROVAL DATE: September 8, 2016**

#### I. INTRODUCTION

The above entity has applied to the Drinking Water State Revolving Fund (SRF) Loan Program for a loan to finance all or part of the drinking water project described in the accompanying Environmental Assessment (EA). 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 at <http://www.in.gov/ifa/srf/>.

#### II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The SRF Drinking Water Program 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 approval date above. 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  
100 N. Senate Ave. IGCN I275  
Indianapolis, IN 46204  
317-234-7294; [adouglas@ifa.in.gov](mailto:adouglas@ifa.in.gov)

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# ENVIRONMENTAL ASSESSMENT

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## I. PROJECT IDENTIFICATION

Project Name and Address:                   **Water Treatment Plant (WTP) Improvements Project**  
Town of Andrews  
66 North Main Street  
Andrews, IN 46702

SRF Project Number:                         DW 16 09 35 01

Authorized Representative:                 Laura Dillon, Clerk Treasurer

## II. PROJECT LOCATION

The Water Treatment Plant Improvements project is located in the Town of Andrews, Huntington County, Dallas Township, Andrews USGS Quadrangle, in Township 28 North, Range 8 East, Section 34.

## III. PROJECT NEED AND PURPOSE

The Water Treatment Plant (WTP) has issues related to health, sanitation, and security, system operations/maintenance, and aging infrastructure, described in detail, as follows:

- Health, Sanitation, and Security – The WTP fails to remove iron to meet the standard limits, which is, in terms of water quality, the primary issue. In addition, the town has issues with taste and odor complaints from customers. There are also security/safety concerns for the operator.
- System Operations/Maintenance – The WTP has had multiple minor modifications with the addition of the chlorine room, generator, and electrical associated with each addition. The remaining portions of the WTP operate inefficiently and are in need of replacement.
- Aging Infrastructure – The WTP was originally constructed in 1939. The existing high service pumps, pressure filter, induced draft aerator, and clearwell are deteriorating and have reached their useful life, causing them to operate inadequately.

## IV. PROJECT DESCRIPTION

The proposed project consists of the construction of a new Water Treatment Plant building to house a 300 gpm induced draft aerator, two (2) 300 gpm vertical turbine high service pumps, three (3) 20 gpm backwash pumps, a package-style gravity filter (7' width and 20' length), a 100 scfm backwash blower, facilities for chlorine disinfection and fluoride addition, a 30,000-gallon clearwell, a 12,500-gallon backwash/recycle tank. See Figures 1 and 2.

## V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

### A. Selected Plan Estimated Cost Summary

#### Construction Costs

Gravity Filter	\$ 446,000
Chlorine Equipment	41,000
Fluoridation Equipment	20,000
Backwash Blower	17,000
High Service Pumps	41,000
Backwash Pumps	20,000
Aeration Tower	61,000
Meters	27,000
Treatment Building	338,000
Concrete Slabs	72,000
Elevated Concrete Slab	42,000
Concrete Walls	127,000
Miscellaneous Metals	31,000
Electrical	219,000
Mechanical	125,000
Piping	125,000
Painting	38,000
Site Work	94,000
WTP Sewer System	10,000
Demolition of Existing Clearwell and WTP	30,000
Contingency (approx. 15%)	<u>289,000</u>
<b>Estimated Construction Sub-Total</b>	<b>\$ 2,213,000</b>

#### Non-Construction Costs

Engineering Services	\$ 240,000
Construction Observation	125,000
Rate Consultant	12,000
Legal/Bond Counsel	96,000
Labor Standards	10,000
Grant Administration	40,000
Environmental Review	<u>3,000</u>
<b>Estimated Non-Construction Sub-Total</b>	<b>\$ 526,000</b>

**TOTAL ESTIMATED PROJECT COST** **\$ 2,739,000**

B. The estimated total project cost is \$2,739,000. The Town of Andrews will finance the project with a loan from the State Revolving Fund Loan Program for a 20-year term at an annual fixed interest rate to be determined at loan closing. The actual loan amount will depend on the bids received.

## VI. DESCRIPTION OF EVALUATED ALTERNATIVES

Alternative 1 – No Action: No action will not allow the Town to address its water treatment issues. Because of the inability to address these issues, the No Action Alternative is not a viable option for this project.

Alternative 2 – Purchase Water from Huntington: This alternative consists of the installation of approximately 19,500 feet of 8-inch diameter water main, along County Road West 200 North/between Huntington and Andrews and the construction of a booster station.

Alternative 3 – New Pressure Filter Water Treatment Plant: This alternative consists of the construction of a new pressure filter water treatment plant building. The treatment process would consist of an induced draft aerator, two vertical turbine high service pumps, a horizontal pressure filter, facilities for chlorine disinfection and fluoride addition, and a clearwell.

Alternative 4 – New Gravity Filter Water Treatment Plant: This alternative consists of the construction of a new gravity filter water treatment plant building. The treatment process would consist of induced draft aerator, two vertical turbine high service pumps, a gravity filter, a backwash blower, facilities for chlorine disinfection and fluoride addition, and a clearwell. This is the selected alternative.

## VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

### A. Direct Impacts of Construction and Operation

**Disturbed/Undisturbed Land:** The new Water Treatment Plant (WTP) will be constructed on another location within the same property that the existing WTP is located. All areas have been previously disturbed by previous construction activity.

**Structural Resources (Figure 3):** Construction and operation of the project will not alter, demolish or remove historic properties. If any visual or audible impacts to historic properties occur, they will be temporary and will not alter the characteristics that qualify such properties for inclusion in or eligibility for the National Register of Historic Places. The SRF’s finding pursuant to Section 106 of the National Historic Preservation Act is: “*no historic properties affected.*”

**Surface Waters:** The project will not adversely affect outstanding state resource waters listed in 327 IAC 2-1.3-3(d), exceptional use streams listed in 327 IAC 2-1-11(b), Natural, Scenic and Recreational Rivers and Streams listed in 312 IAC 7-(2), or Salmonid Streams listed in (327 IAC 2-1.5-5(a)(3) or streams on the Outstanding River List for Indiana.

**Wetlands (Figure 4):** Wetlands will not be impacted by the construction of the water treatment plant.

**Floodplain:** Construction will not occur in a floodway.

**Groundwater:** The project will not impact a drinking water supply or sole source aquifer.

**Plants and Animals:** The Preliminary Engineering Report (PER) states: *There are several trees on the proposed site that would need to be removed. The construction contract would include provisions to restrict the removal of trees between April and October to protect the Indiana bat. The construction and operation of the proposed project items will not negatively impact state or federal-listed threatened or endangered species or their habitat.*

**Prime Farmland:** The project will not convert prime farmland.

**Air Quality:** Construction activities may generate some noise, fumes and dust, but should not significantly affect air quality.

**Open Space and Recreational Opportunities:** The project will neither create nor destroy open space or recreational opportunities.

**Lake Michigan Coastal Program:** The project will not affect the Lake Michigan Coastal Zone.

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

## **B. Indirect Impacts**

The Town of Andrew's PER states: *The Town, through the authority of its Council will ensure that future development, as well as future distribution system or treatment works projects connecting to State Revolving Fund (SRF)-funded facilities, will not adversely affect 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**

In correspondence dated May 24, 2016, the Indiana Department of Natural Resources Division of Historic Preservation and Archaeology stated:

*Pursuant to IC 13-18-21 and 327LAC 14 and Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108) 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 May 2, 2016, for the above indicated project in Andrews, Huntington County, Indiana.*

*Based on our analysis, it has been determined that no historic properties will be altered, demolished, or removed by the proposed project.*

*In terms of archaeology, no currently known archaeological resources eligible for inclusion in the National Register of Historic Places have been recorded within the proposed project area. No archaeological investigations appear necessary provided that all project activities remain within areas disturbed by previous construction.*

*If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 & 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days.*

In correspondence dated May 13, 2016, the United States Fish and Wildlife Service 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 will have no effect on wetlands or other significant habitat types. Project impacts are expected to be minor in nature. Based on a review of the information you provided, the U.S. Fish and Wildlife Service has no objections to the project as currently proposed. 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 list be published, it will be necessary for the Federal agency to reinitiate consultation.*

In correspondence dated May 18, 2016 the Department of Natural Resources Environmental Unit Stated:

*The Indiana Department of Natural Resources has reviewed the above referenced project per your request. 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: This proposal may require the formal approval of our agency pursuant to the Flood Control Act(IC 14-28-1) for any proposal to construct, excavate, or fill in or on the floodway of a stream or other flowing waterbody which has a drainage area greater than one square mile. Please submit more detailed plans to the Division of Water's Technical Services Section if you are unsure whether or not a permit will be required.*

*Natural Heritage Database: The Natural Heritage Program's data have been checked. The state endangered greater redhorse (*Moxostoma valenciennesi*) and the wavyrayed lampmussel (*Lampsilis fasciola*), a species of special concern, have been documented within ½ mile northwest of the project area in the Wabash River.*

*Fish & Wildlife Comments: As long as standard erosion control practices are implemented, we do not foresee any impacts to the species above as a result of this project.*

*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), legumes, and native shrub and hardwood tree species as soon as possible upon completion.*
- 2. Minimize and contain within the project limits all tree and brush clearing.*
- 3. Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting (greater than 3 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices or cavities) 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 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 6, 2016 the Natural Resources Conservation Service Stated:

*The proposed Water Treatment Facility Improvements/New Water Treatment Plant project in the Town of Andrews, Huntington County, Indiana, as referred in your letter received May 5, 2016, will not cause a conversion of prime farmland.*

## VIII. MITIGATION MEASURES

Town of Andrews PER states:

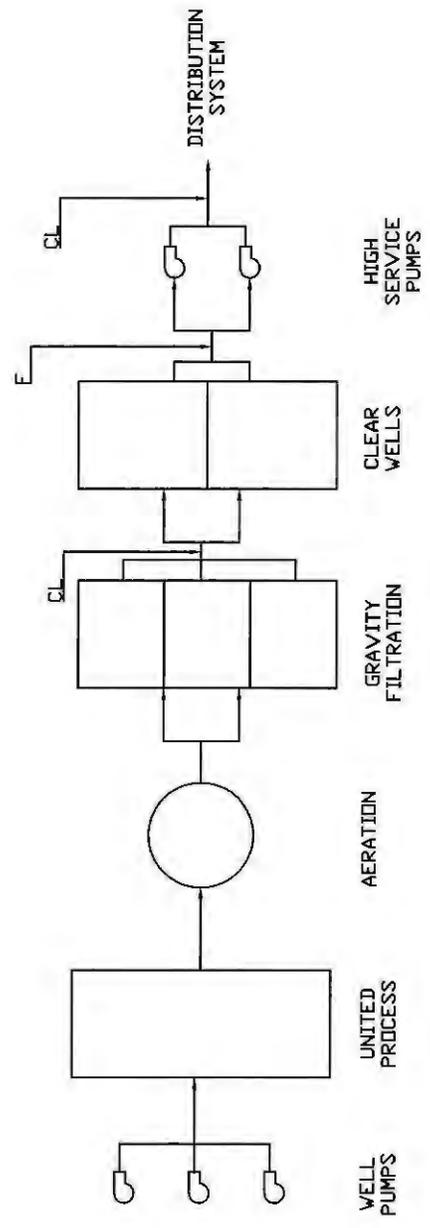
*No long-term negative erosion, siltation, air quality, or odor impacts are expected from this project. Short-term erosion, siltation, and air quality impacts will be controlled and monitored by the contractor during the installation and construction of the water mains and control vaults. The project will obtain a Rule 5 Permit along with a Stormwater Pollution Prevention Plan (SWPPP). Some of the measures in these documents will include silt fence, erosion blankets in areas with steep slopes, and temporary cover on areas left exposed for a long period of time.*

## IX. PUBLIC PARTICIPATION

A properly noticed public hearing was held on June 22, 2015, at 6:00 pm at the Andrews Municipal Building to discuss the PER. No written comments were received during the 5-day comment period following the hearing.



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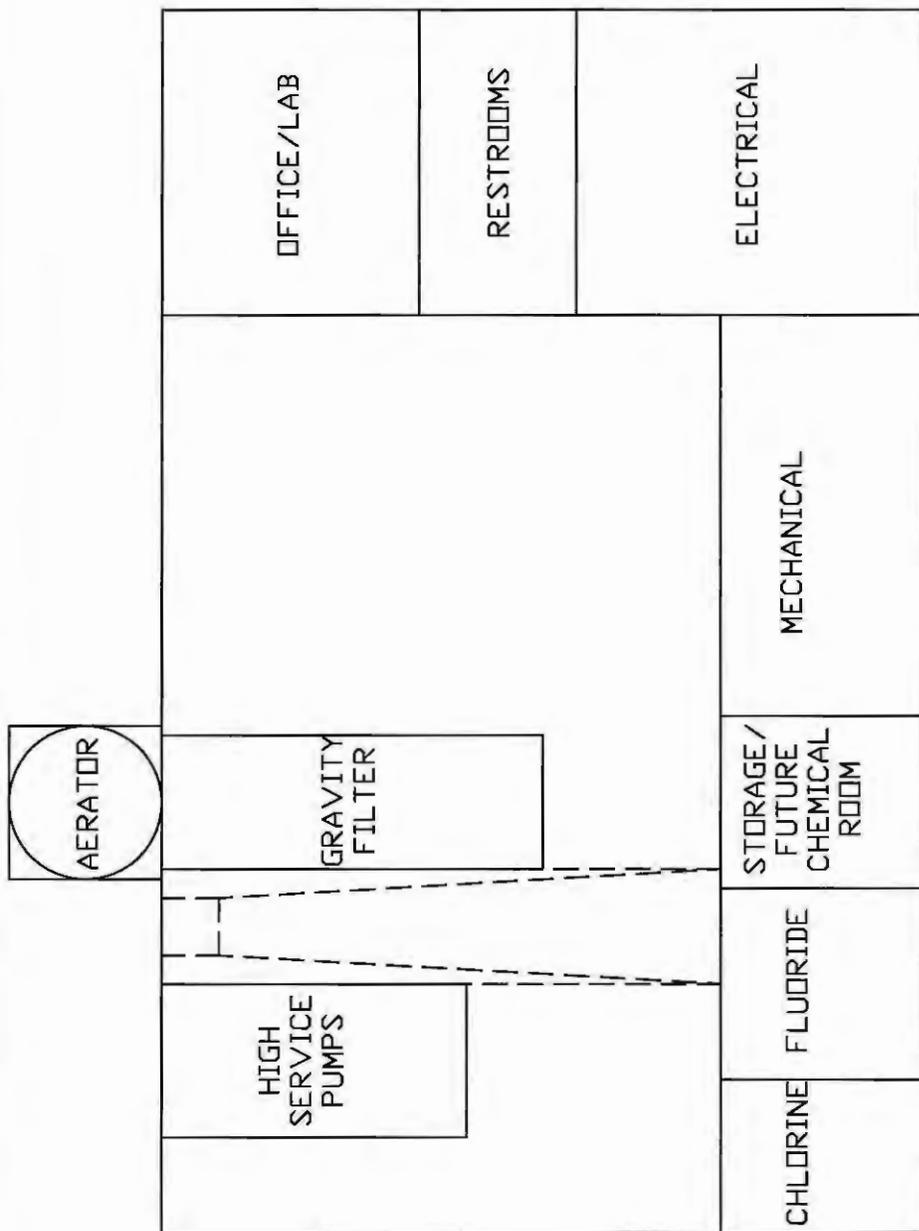


**PROCESS SCHEMATIC  
ALTERNATIVE 4 - WATER  
UTILITY  
MASTER PLAN  
TOWN OF ANDREWS  
HUNTINGTON COUNTY, INDIANA**

Figure 1



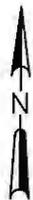
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**BUILDING LAYOUT**  
**ALTERNATIVE 4 - WATER**  
**UTILITY**  
**MASTER PLAN**  
**TOWN OF ANDREWS**  
**HUNTINGTON COUNTY, INDIANA**

Figure 2

Wabash Avenue

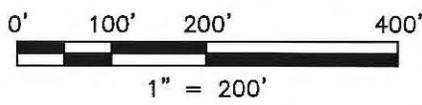


**HUNTINGTON COUNTY INTERIM REPORT  
ALTERNATIVE 4 - WATER  
UTILITY  
MASTER PLAN  
TOWN OF ANDREWS  
HUNTINGTON COUNTY, INDIANA**



Figure 3

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- Wetlands**
- Freshwater Emergent
  - Freshwater Forested/Shrub
  - Estuarine and Marine Deepwater
  - Estuarine and Marine
  - Freshwater Pond
  - Lake
  - Riverine
  - Other
- Riparian**
- Herbaceous
  - Forested/Shrub
- Riparian Status**
- Digital Data

**WETLANDS INVENTORY MAP  
ALTERNATIVE 4 - WATER  
UTILITY  
MASTER PLAN  
TOWN OF ANDREWS  
HUNTINGTON COUNTY, INDIANA**



Figure 4