



# 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 REMINGTON WATER SYSTEM IMPROVEMENTS PROJECT STATE REVOLVING FUND PROJECT # DW 14133701

**DATE: November 17, 2014**

**TARGET APPROVAL DATE: December 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 drinking water 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 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:

Amy Henninger  
Compliance Officer  
State Revolving Fund -- IGCN 1275  
100 N. Senate Ave.  
Indianapolis, IN 46204  
317-232-6566  
[ahenning@ifa.in.gov](mailto:ahenning@ifa.in.gov)

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**ENVIRONMENTAL  
ASSESSMENT**

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**I. PROJECT IDENTIFICATION**

Project Name and Address: Water System Improvements Project  
Town of Remington  
24 S Indiana Street  
Remington, IN 47977

SRF Project Number DW 14133701

Authorized Representative: Mr. Brian Melchi, President, Remington Town Council

**II. PROJECT LOCATION AND BACKGROUND**

Remington is located in the southern portion of Jasper County. The project area for the Water System Improvements Project is located in the Remington USGS 7.5' topographic quadrangle in Carpenter Township, T27N, R7W and section 25 (see Exhibit A-7).

**III. PROJECT NEED AND PURPOSE**

The town of Remington presently has six water supply wells. Each well discharge line has chlorine gas added. Lacking other water treatment, the secondary maximum contaminant level for iron is not presently met. Many customers experience taste, odor and color issues with their water supply, and the distribution system has corrosion, scaling and sedimentation as a consequence of the iron content.

The proposed project involves construction of a new water treatment plant to address the iron level in the water supply and the secondary impact of the iron content in the water (Exhibit A-5).

**IV. PROJECT DESCRIPTION**

The proposed project involves:

- New Water Treatment Plant (WTP)
  - A total capacity of 1,200 gpm and a firm capacity of 800 gpm
  - Aerator – one induced draft aerator
  - Detention Tank – cast-in-place tank with a volume of 36,000 gallons
  - High Service Pumps – three vertical turbine pumps rated at 400 gpm
  - Pressure Filters – three horizontal filters with a capacity of 400 gpm and a loading rate of 3 gpm/ft<sup>2</sup>
  - Backwash Tank – cast-in-place tank sized to accept two complete filter backwashes
  - Chemical Feed – existing chlorine gas system will be left at the well houses and will be utilized. The new chlorine feed points will be provided pre and post filtration
  - Standby Power – a pad mounted diesel generator
  - SCADA system
- Existing wells 3, 6 and 7 pump motors will be modified by adding VFDs (Exhibit A1)
- New Raw Water Connection at the existing 12" ductile iron water main located on Maine St.

## V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

### A. Selected Plan Estimated Cost Summary:

<u>Construction Components</u>	<u>Costs</u>
Mobilization/Demobilization	\$ 90,000
Site Work (inc raw water connection)	283,000
Well Pump Motor VFD	30,000
Generator	140,000
Aerator	48,000
Detention Tank	69,000
Horizontal Pressure Filters	600,000
Backwash Tank and Lift Station	110,000
High Service Pumps	54,000
Chemical Feed Systems	138,000
Electrical and Controls for SCADA	360,000
Piping, Fittings and Valves	228,000
Plant Building	<u>620,000</u>
<b>Subtotal Costs</b>	<b>\$2,770,000</b>
Contingencies	<u>277,000</u>
<b>Total Estimated Construction Costs</b>	<b>\$ 3,047,000</b>
<b>Non- Construction Costs*</b>	<b>\$ 828,000</b>
<b>Total Estimated Project Costs</b>	<b>\$ 3,875,000</b>

\*Non-construction costs include planning, design and construction engineering; permitting; geotechnical; system programming; labor standards administration; and bond counsel.

B. Remington will borrow \$3,875,000 from the State Revolving Fund Loan Program through a 20-year loan at a fixed interest rate to be determined at the time of loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

## VI. DESCRIPTION OF EVALUATED ALTERNATIVES

Five alternatives were evaluated for the project, including the “No Action” alternative.

The “No Action” alternative was rejected since the iron level in the water supply would continue to exceed the secondary maximum contaminant level, and the secondary impacts of the iron level would persist.

A second rejected alternative was the addition of polyphosphates. The polyphosphates would prevent iron precipitate in the distribution system, but iron would likely continue to be an issue for the customers since a portion of the iron would likely precipitate out in water heaters. Many of the customer issues with the iron content would continue.

Three iron removal plant designs were considered. The alternative, New Water Treatment Plant with Isolated Cell Horizontal Pressure Filters, was selected on the basis of construction costs, feasibility of construction, environmental impacts and benefits to the utility.

## VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

### A. Direct Impacts of Construction and Operation

**Disturbed / Undisturbed Land:** Construction of the water main and water treatment plant will occur on undeveloped farm land. An archaeology report on these areas was completed and will be provided to the DHPA for review.

**Structural Resources:** 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."

**Wetlands:** Wetlands will not be impacted by the construction or operation of the project.

**Surface Waters:** The project will not adversely affect waters of high quality listed in 327 IAC 2-1-2(3), exceptional use streams listed in 327 IAC 2-1-11(b), Natural, Scenic and Recreational Rivers and Streams listed in 312 IAC 7-(2), Salmonid Streams listed in (327 IAC 2-1.5-5(a)(3), or waters on the Outstanding Rivers list.

**Floodplain** (Exhibit A-9): The water main associated with this project will pass through the 100-year floodplain. The Town's Preliminary Engineering Report (PER) states: *A permit Application for Construction in a Floodway will be submitted to the DNR Division of Water prior to any construction activities. The floodplain construction activities will adhere to DNR standards and structures will be protected from the 100-year flood.*

**Groundwater:** Dewatering may be required to temporarily lower the groundwater table in some areas during construction and modification. Minor fluctuations in groundwater levels will be temporary in nature. Discharge from dewatering activities will be filtered or settled to remove sediment and will not be directly discharged to any waterway, wetland, or stormwater conveyance. Notes to this effect will be included in the project plans and specifications.

**Plants and Animals:** Minor tree removal is expected and the project area may include Indiana bat habitat. Mitigation measures cited in comment letters from the Indiana Department of Natural Resources and U.S. Fish and Wildlife Service will be implemented.

**Prime Farmland:** The project will cause a conversion of 6.2 acres of prime farmland.

**Air Quality:** Mitigation measures to reduce noise, dust and airborne contaminants will be implemented as required by necessary permits.

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

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

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

## **B. Indirect Impacts**

The Town's PER states: *The Town, through the authority of its council, planning commission or other means, will ensure that future development, as well as future drinking water systems or treatment works projects connected to the SRF-funded facilities will not adversely impact wetlands, archaeological/ historical/ structural resources, or other sensitive environmental resources. The Town will require new development and sewer projects to be constructed within the guidelines of the USFWS, DNR, IDEM and other environmental review authorities.*

## **C. Comments from Environmental Review Authorities**

In correspondence dated April 8, 2014, the Natural Resources Conservation Service stated: *The proposed project regarding the construction of a water treatment plant, connecting to existing underground pipes and an access road in the Town of Remington, Jasper County, Indiana, as referred to in your letter received April 7, 2014, will cause a conversion of prime farmland.*

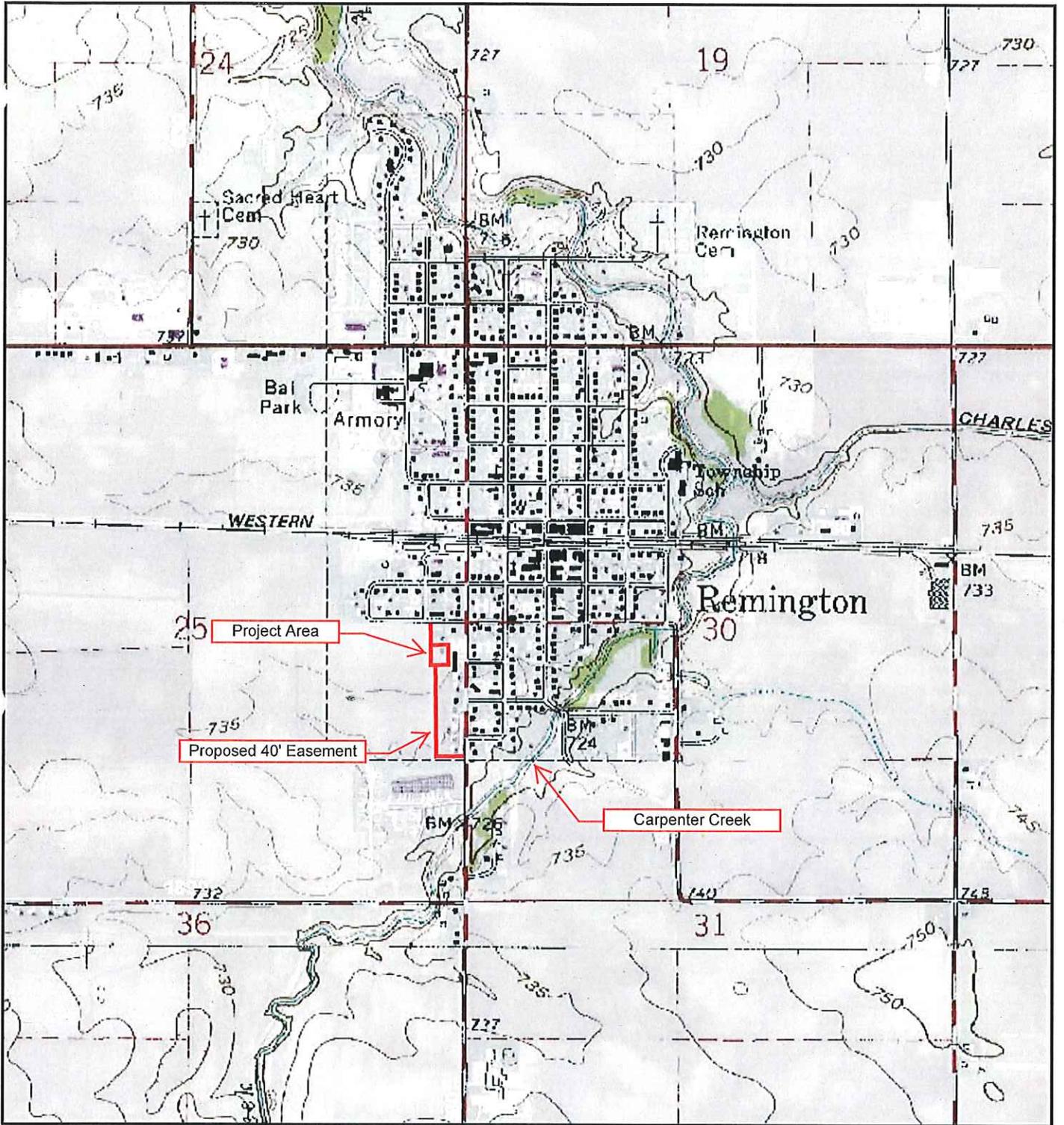
This document is the first notice to U.S. Fish and Wildlife Service (USFWS), the DNR Environmental Unit and the Division of Historic Preservation and Archaeology.

## **VIII. MITIGATION MEASURES**

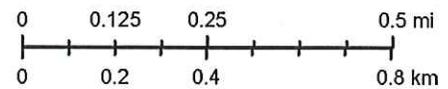
The Town of Remington states in their PER that: *Erosion control measures will be implemented during all construction activity. Areas disturbed by construction will be restored and revegetated with seeding and other measures such as erosion control blankets, as necessary. If it is recommended by the USFWS or DNR, tree removal will not be conducted between April 1 and September 30 to avoid potential impacts to the Indiana Bat. A Rule 5 permit for erosion control will be obtained from IDEM prior to construction. Installation of the piping to the site will require a Construction in a Floodway permit from DNR prior to construction.*

## **IX. PUBLIC PARTICIPATION**

A properly noticed public hearing was held at the Remington Town Hall on July 7, 2014 at 6:30 pm to discuss the Preliminary Engineering Report. There were no comments on the project raised at the hearing and no written comments were received.



Map Source: Indiana Map  
 Map Date: March 11, 2014



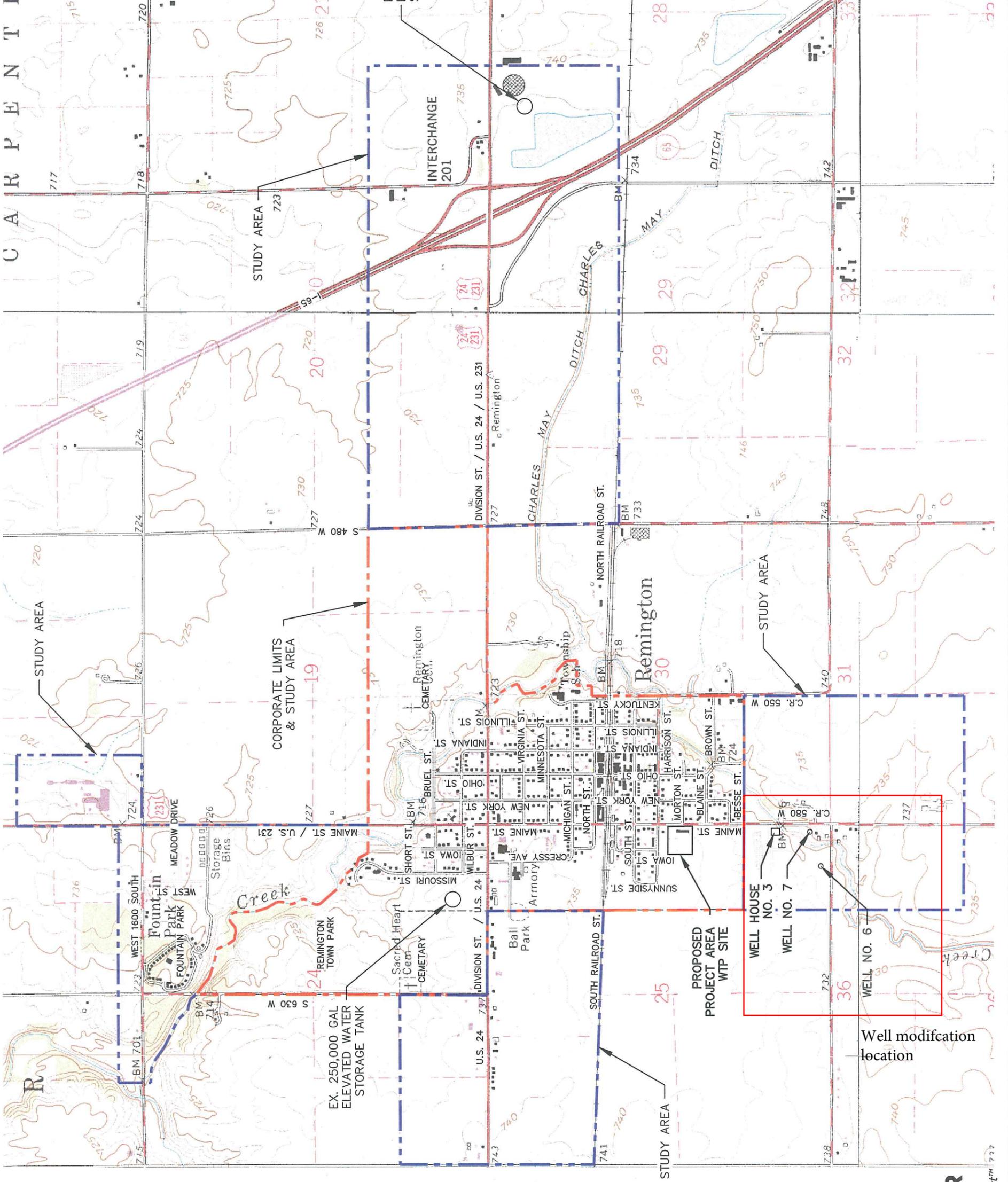
**WATER SYSTEM IMPROVEMENTS**

TOWN OF REMINGTON, INDIANA

**PROJECT TOPOGRAPHIC MAP**

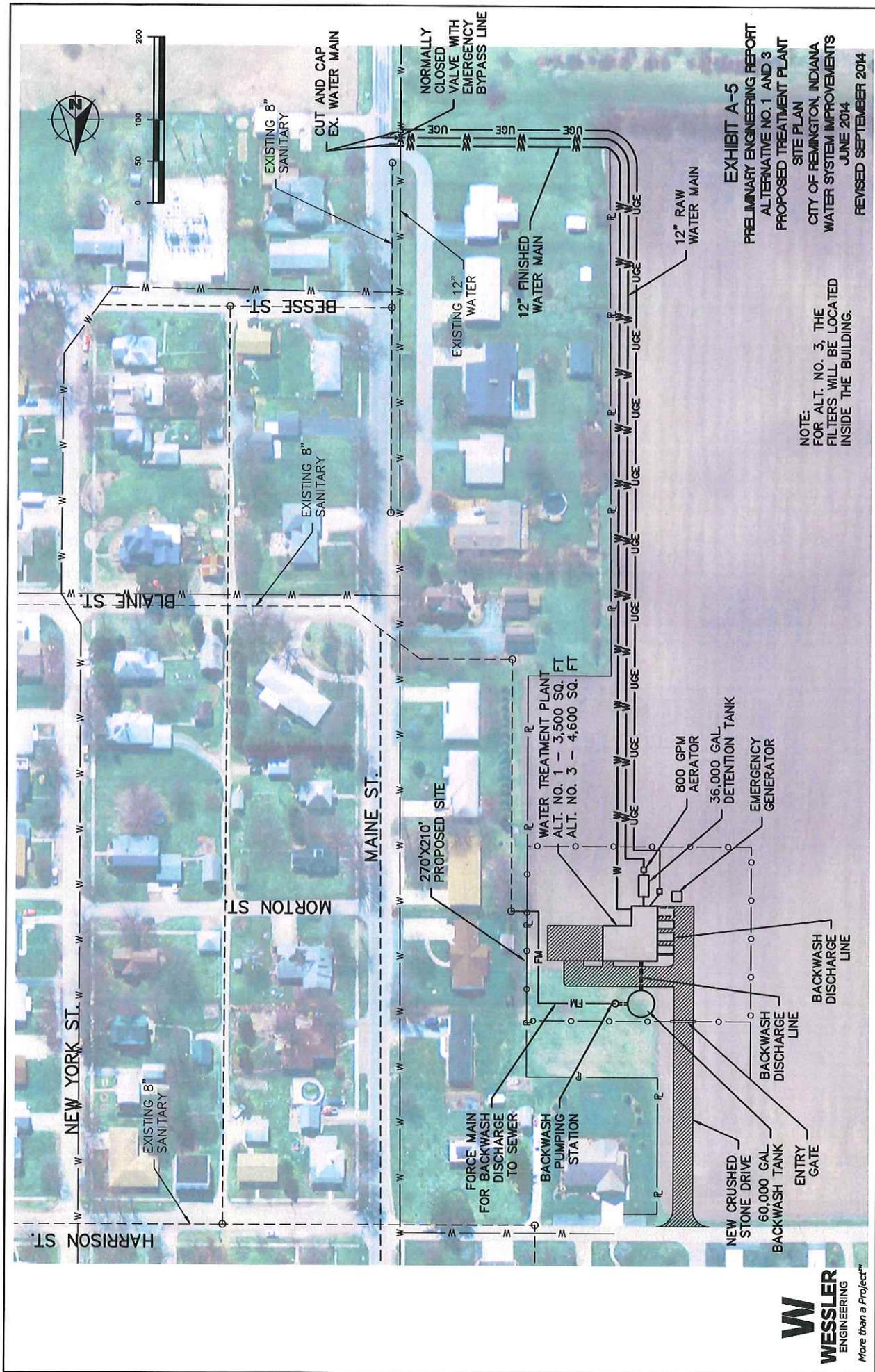
EXHIBIT  
**A-7**

PAGE NO.  
 1 of 1



RECEIVED  
JUN 13 2014  
INDIANA FINANCE AUTHORITY  
ENVIRONMENTAL PROGRAMS

EXHIBIT A-1  
PRELIMINARY ENGINEERING REPORT  
PROJECT LOCATION MAP  
CITY OF REMINGTON, INDIANA  
WATER SYSTEM IMPROVEMENTS  
JUNE 2014



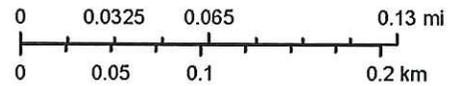
**EXHIBIT A-5**  
 PRELIMINARY ENGINEERING REPORT  
 ALTERNATIVE NO. 1 AND 3  
 PROPOSED TREATMENT PLANT  
 SITE PLAN  
 CITY OF REMINGTON, INDIANA  
 WATER SYSTEM IMPROVEMENTS  
 JUNE 2014  
 REVISED SEPTEMBER 2014

NOTE:  
 FOR ALT. NO. 3, THE  
 FILTERS WILL BE LOCATED  
 INSIDE THE BUILDING.



Legend:

- 0.2% Risk (aka 500-year Flood Zone)
- 1% Risk (aka 100-yr Flood Zone)
- Floodway



Map Source: Indiana Map  
Map Date: March 11, 2014