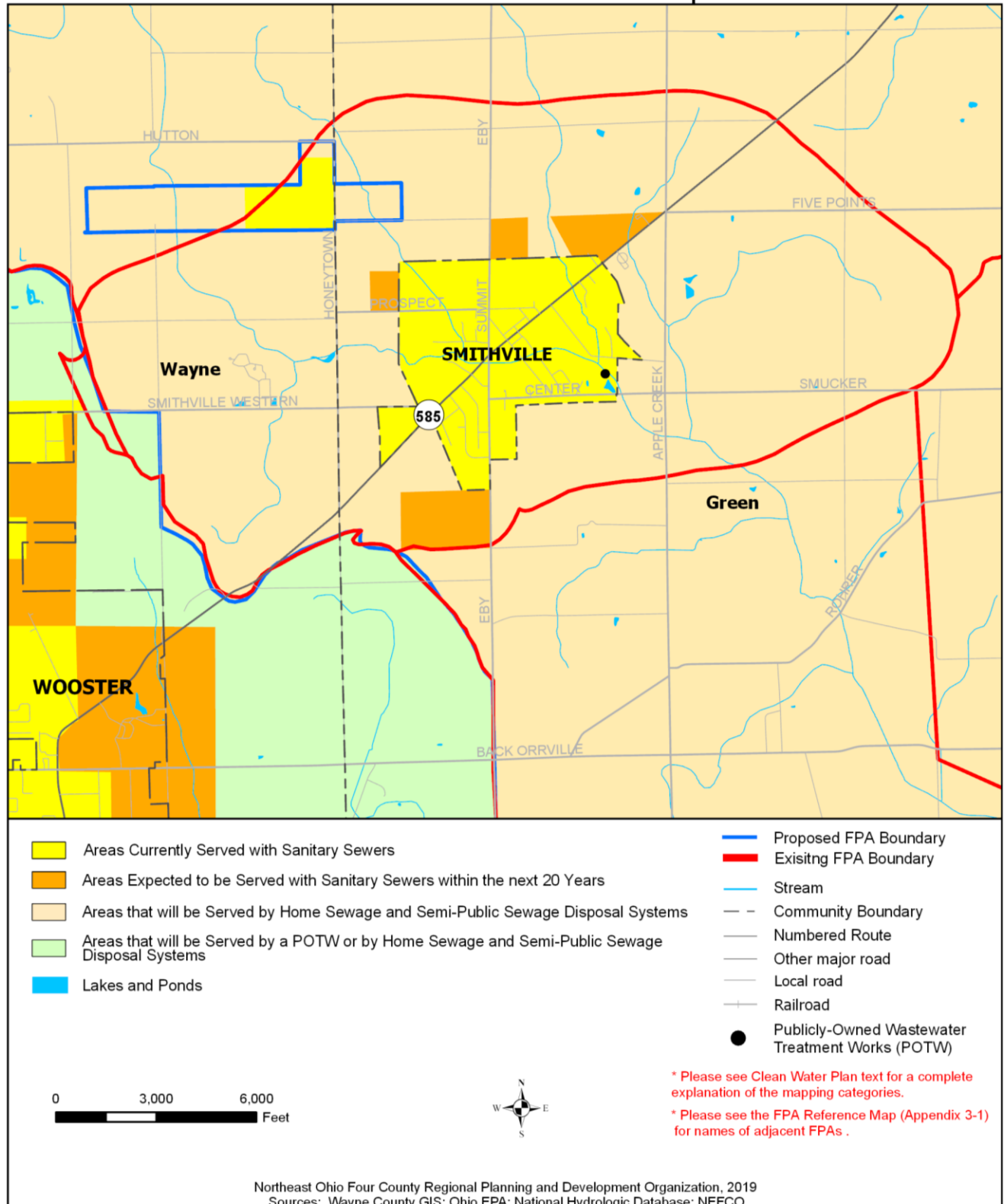


Appendix 3-48

Smithville Facilities Planning Area

Smithville Facilities Planning Area

208 Clean Water Plan - 2020 Update



Current Plan approved by the NEFCO General Policy Board

3-48-2

12/21/2011

Smithville Facilities Planning Area

I. Existing Situation

A. County/Basin:

Wayne / Ohio River Basin

B. Facilities Planning Area:

Smithville

C. Designated Management Agency (DMA):

I. Primary DMA

a) Village of Smithville

II. Secondary DMA

a) Wayne County Office of Environmental Services

D. Publicly-Owned Treatment Works:

Smithville WWTP, 0.2800 MGD

Within the planning area we have 2 package plants

E. Facilities Plan:

I. Bender, Grindle, Raike, Inc., Facilities Plan Engineering Report for Wastewater Facilities for Village of Smithville, Ohio, April, 1976.

II. Finkbeiner, Pettis & Strout, Inc., Wastewater Treatment Plant Improvements for Village of Smithville, Ohio, April 1997.

III. Arcadis FPS, Wastewater Treatment Plant Improvement for Village of Smithville, Ohio, July 2010.

F. Area Served:

Village of Smithville located in Wayne and Green Township, Wayne County

G. Receiving Stream:

Sugar Creek Mainstem

H. Contact Person/Address/Phone/Fax:

a. Mr. Charles Heath, Licensed Wastewater Treatment Plant Operator

Don Fry, Plant Operator

Village of Smithville

P.O. Box 517

Smithville, Ohio 44677

Phone: (330) 669-2633

Fax: (330) 669-3470

- b. Mr. Robert Kastner, P.E., Water Management Engineer
Wayne Soil & Water Conservation District
428 W. Liberty St.
Wooster, OH 44691
Phone: (330) 262-2836
Fax (330) 262-7422

I. Population Served:

The Facilities Plan for Wastewater Facilities for the Village of Smithville, Ohio has a population projection for the design year 2000 of 1,333 people for Smithville and 2,100 people for the planning area.

Smithville	<u>2000</u>	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>
201 (a)	2,100	2200	2300	2400	2500	2600
Approved 208	-----	-----	-----	-----	-----	-----

Smithville population is based on 2000 census with modest increases due to limited building sites available. The village is bordered by large farms, so the population around Smithville is spread out except for some concentration at a retirement care facility.

(a) Bender, Grindle, Raika, Inc., November, 1975. Plate 10-Appendix D.

Approved NEFCO 208 Clean Water Plan population projections are not available.

II. Wastewater Treatment Planning Prescription and Wastewater Planning Options

Original source information provided by the Village of Smithville, May 2010, and the Wayne County Office of Environmental Services, May 2010.

Village of Smithville Jurisdiction

Areas Currently Sewered ~~Served~~ with Sanitary Sewers (yellow):

These areas are currently incorporated and served with sanitary sewers that have been constructed and in operation. All new development and construction in this area will be required to connect to and/or provide the necessary sanitary sewer infrastructure to connect to existing sewer lines to ensure that wastewater will be treated at the Village of Smithville wastewater treatment plant.

1. New Development

- a. New development in this area will be connected to the Village of Smithville wastewater treatment plant. The cost to connect to and/or provide the necessary sanitary sewer infrastructure to connect to existing sewer lines shall be borne by the developer. In addition, the cost to improve and/or expand existing sewer mains and wastewater treatment capacity shall be borne by the developer. The wastewater treatment plant must meet EPA permit requirements with the new anticipated flows

Current Plan approved by the NEFCO General Policy Board

added to existing flow rates. If existing capacity is found to be available an impact study on the treatment plant will be required and an impact fee may be imposed on the developer.

2. Existing (developed) Properties (not required to tie into sanitary sewer when the system was initially constructed)

- a. Existing sewage systems shall be required to connect to the existing sanitary sewer to ensure that wastewater will be treated at the Smithville Wastewater Treatment Plant when sanitary sewer becomes available, as determined by the Ohio EPA and/or the Wayne County Board of Health.
- b. Failing sewage systems will be required to connect to the existing sewer system, fully observing all regulations of the Village of Smithville. The cost to connect to and/or to provide the necessary sanitary sewer infrastructure shall be borne by the property owner.

Areas Expected to be Served with Sanitary Sewers within the next 20 Years (orange):

All future sanitary sewers constructed in this area will be connected to the Village of Smithville wastewater treatment plant. The developer must make a formal written request to Smithville Village Council and Board of Public Affairs requesting services. The areas presently exist outside of the corporation limits and Council may request annexation as a condition for providing services.

1. New Development

- a. All sanitary sewers constructed in this area will be connected to the Village of Smithville wastewater treatment plant. The cost to connect to and/or provide the necessary sanitary sewer infrastructure to connect to existing sewer lines shall be borne by the developer. In addition, the cost to improve and/or expand existing sewer mains and wastewater treatment capacity shall be borne by the developer. The wastewater treatment plant must meet EPA permit requirements with the new anticipated flows added to existing flow rates. If existing capacity is found to be available an impact study on the treatment plant will be required and an impact fee may be imposed on the developer.

2. Existing (developed) Property options when sewers become available

- a. Existing (developed) properties shall be required to connect to the existing sanitary sewer, at the property owner's cost, as it becomes available and accessible, as determined by the Ohio EPA and the Wayne County Board of Health.
- b. Failing sewage systems may be replaced and/or upgraded as necessary until such time as the sanitary sewer is available and accessible, as determined by the Ohio EPA and the Wayne County Board of Health, at which time, the property must be connected to

the sanitary sewer system and the existing sewage system shall be abandoned, at the property owner's cost.

Areas expected to be served by private household sewage treatment systems or semi-public systems, and where local officials are oriented to maintaining an unsewered status for the foreseeable future (cream):

These areas are identified in the Wayne County Comprehensive Plan as the Conservation Area. The infrastructure policy in Conservation Area is that on-lot water and wastewater systems are expected (with County Health Department and Ohio EPA approvals) with alternative wastewater technologies supported where meeting current health standards and practices. Spray irrigation is prohibited as a wastewater treatment option in this area. Development within this area shall be subject to the following:

1. New Development

- a. These are rural areas with large undeveloped tracts of land. These are areas in which new development is expected to be large-lot, low density with non-discharging HSTs and non-discharging SPSDSs as the primary method for the treatment of wastewater. No new discharges.

2. Existing (developed) Properties

- a. Existing HSTs and SPSDSs which fail to operate may be replaced and/or upgraded as necessary.
- b. A proposed expansion of an existing Multi-family, Commercial, and Industrial Development that will result in an increase in discharge loadings of the facility's NPDES Permit may be considered provided the receiving stream has adequate assimilative capacity, as determined by Ohio EPA.

If the receiving stream of the discharge does not have adequate assimilative capacity for the resulting increase in discharge loadings from the proposed expansion, utilization of alternative wastewater technologies resulting in a "no net gain" of discharge loadings may be considered, as determined by Ohio EPA.