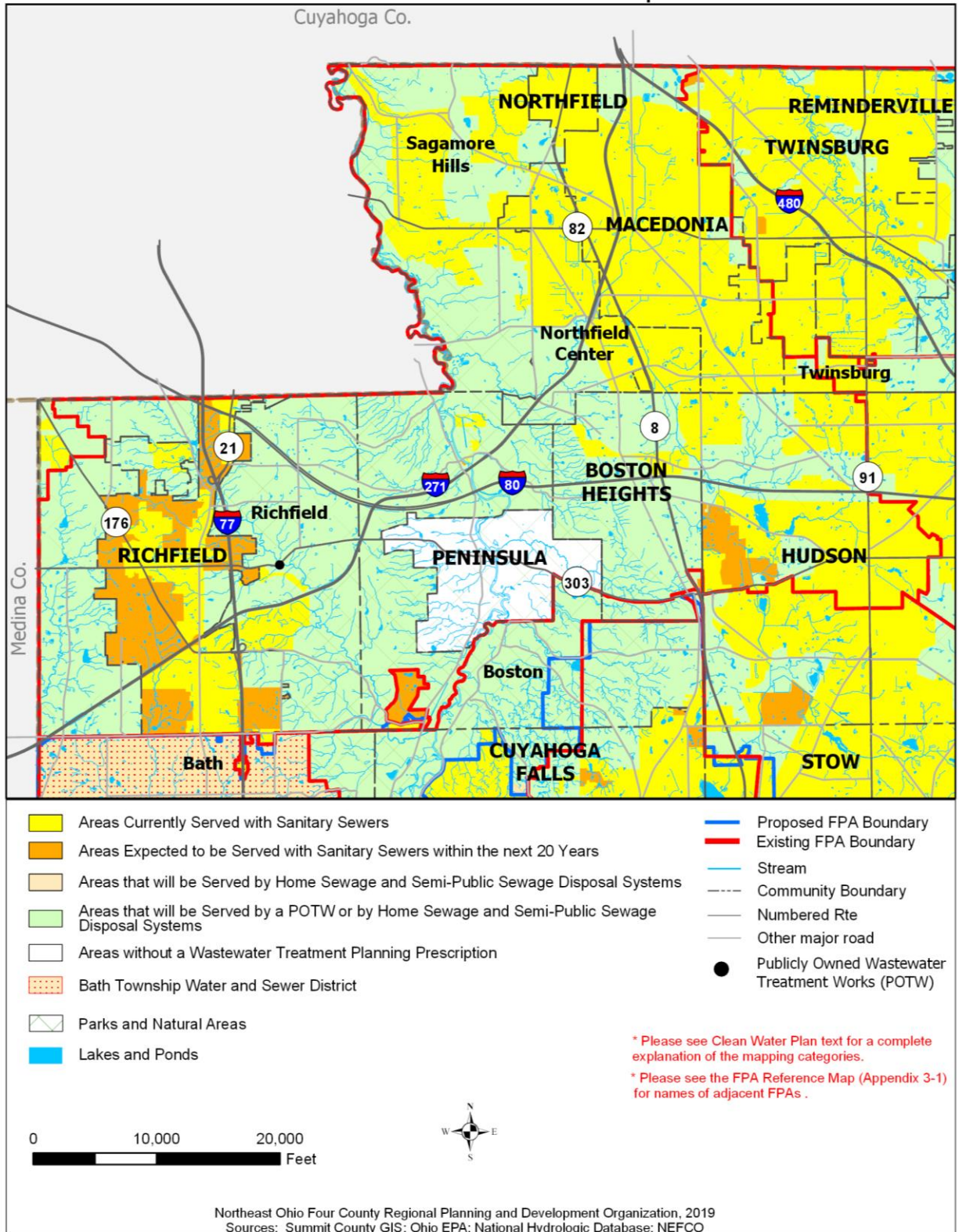


## **Appendix 3-29**

### **Cuyahoga Valley Interceptor Facilities Planning Area (Summit County)**

# Cuyahoga Valley Interceptor Facilities Planning Area

## 208 Clean Water Plan - 2020 Update



Current Plan approved by the NEFCO General Policy Board

1/16/2019

## **Cuyahoga Valley Interceptor Facilities Planning Area**

### **I. Existing Situation**

#### **A. County/Basin:**

Cuyahoga and Summit/Lake Erie

#### **B. Facilities Planning Area:**

Cuyahoga Valley Interceptor - 1

#### **C. Designated Management Agency (DMA):**

##### **I. Primary DMA**

- a) Northeast Ohio Regional Sewer District (NEORSO)

##### **II. Secondary DMAs**

- a) Summit County Department of Sanitary Sewer Services
- b) Northfield Village
- c) Richfield Village
- d) Hudson (Old Village)
- e) Twinsburg Water and Sewer District (TWSD)

#### **D. Publicly-Owned Treatment Works:**

Southerly WWTP, 175.0000 MGD

#### **E. Facilities Plan:**

1. *Environmental Assessment - Cuyahoga Valley Interceptor* [Vol. 1] (Havens & Emerson, 1975) which considered ultimate flows from future phased extensions to the original CVI Phase I service area (CVI Phases II and III).
2. *Cuyahoga Valley Interceptor Environmental Impact Statement* (USEPA, 1976) describing the original CVI Phase I service area with recommendations for potentially providing phased interceptor and service extensions beyond the 20-year planning period (CVI Phases II and III).
3. *Operation and Maintenance Manual for the Cuyahoga Valley Interceptor Phase I*, (NEORSO, 1979).
4. *Cuyahoga Valley Interceptor Phase II Facilities Plan* (Consoer-Townsend, 1980).
5. *Cuyahoga Valley Interceptor Operational Evaluation Project (CVI-OEP) Final Report* (Brown and Caldwell, 2007)

#### **F. Area Served:**

##### **Summit County Portion**

City of Macedonia, City of Hudson (part), Village of Northfield, Village of Boston Heights, Village of Peninsula, Village of Richfield, Sagamore Hills Township, Northfield Township, Boston Township (part) and Richfield Township (part)

#### **G. Receiving Stream:**

Cuyahoga River

**H. Contact Person/Address/Phone/Fax:**

Mary Maciejowski  
Community Discharge Permit Program Mgr.  
NEORS  
3900 Euclid Avenue  
Cleveland, Ohio 44115-2504  
Phone: (216) 881-6600  
Fax: (216) 881-2738

Mr. Michael Weant, Director  
Summit County Department of  
Sanitary Sewer Services  
1180 S. Main Street  
Akron, Ohio 44301  
Phone: (330) 926-2405  
Fax: (330) 926-2471

Mr. Richard Wasosky, Village Engineer  
10455 Northfield Road  
Northfield, Ohio 44067  
Phone: (330) 467-7139  
Fax: (330) 468 - 2518  
Fax: (330) 650-2534

Mr. Kevin Powell  
Asst. Public Works Supt.  
1769 Georgetown Road  
Hudson, Ohio 44236  
Phone: (330) 342-1748

Mr. Christopher J. Papp  
Director of Service and Engineering  
Village of Richfield  
Village Hall  
4410 West Streetsboro Road  
Richfield, Ohio 44286  
Phone: (330) 659-9201  
Fax: (330) 659-6935

**I. Population Served:**

The population projections used in the 201 Plan and those in the NEFCO 208 Clean Water Plan are compared below.

	<u>1990</u>	<u>1995</u>	<u>2000</u>	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>
CVI - Summit 201	-----not prepared-----							
Approved 208	29,005	29,287	29,808	30,387	-----	-----	-----	-----

The above population projections (Approved 208) were prepared in 1990. Updated projections are scheduled to be prepared after county population projections are produced by the Ohio Department of Development Office of Strategic Research.

**II. Wastewater Treatment Planning Prescription and Wastewater Planning Options**

Original source information provided by the Summit County Department of Environmental Services, May 1, 2000, Richfield Village, July 13, 1999, Northfield Village, June 27, 2000, Hudson (Old Village), August 14, 2000.

Summit County Department of Sanitary Sewer Services Jurisdiction

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

These areas are currently served with sanitary sewers that have been constructed and are currently in operation. However, there may be undeveloped tracts of land and vacant lots subject to improvement. All new development and construction in the yellow areas of this facilities planning area will be required to connect to and/or provide sanitary service to ensure that wastewater will be treated at an existing publicly-owned treatment works (POTW). Existing non-single-family private treatment systems which fail to operate properly will be required to connect to and/or provide sanitary service to ensure that wastewater will be treated at an existing POTW. Failing home sewage treatment systems (HSTSs) serving single-family homes shall be abandoned and the home connected to sanitary sewer service in accordance with Ohio Administrative Code (OAC) 3701-29-02(M) unless sewer service is not accessible, in which case the HSTS must be repaired or replaced to meet the standards found within OAC 3701-29.

**Areas Served by the Cuyahoga Valley National Park's Constructed Wetland Treatment System in Boston Township (yellow):**

This area is within the Cuyahoga Valley National Park (CVNP) and has a constructed wetland treatment system owned and operated by the National Park Service. The constructed wetland treatment system was initially designed to be a non-discharging system; however, a future discharge point was incorporated in the design. Due to changing weather patterns which resulted in record rainfalls in 2011, the CVNP determined that the system will need to discharge into the Cuyahoga River during years of excessive rainfall.

The treatment and conveyance system was designed to serve the CVNP's properties. The CVNP's properties served by the constructed wetland have frontage along the following roads:

- Boston Mills Road - between Riverview Road and Hines Hill Road
- Stanford Road – in Boston Township
- Hines Hill Road – from intersection with Boston Mills Road north 1,200 feet

Privately-owned properties with frontage along these roads not currently connected to the constructed wetland are not permitted to connect to the CVNP's conveyance system. Privately-owned properties in this area must be served by an existing publicly-owned treatment works (POTW) or an on-site non-discharging treatment system.

Should a POTW serve this area in the future, the current constructed wetland conveyance system will be connected to the POTW system, if feasible. If the flow from Park properties is diverted to a POTW, the constructed wetland treatment system will be taken out of service.

**Areas to be Served by the Cuyahoga Valley National Park's Constructed Wetland Treatment System in Boston Township (orange):**

This area is within the Cuyahoga Valley National Park (CVNP) which has a constructed wetland treatment system owned and operated by the National Park Service. This treatment and conveyance system has been designed to serve CVNP's properties. The CVNP's properties to be served by the constructed wetland have frontage along Boston Mills Road between Riverview Road and Hines Hill Road.

Should a POTW serve this area in the future, the current constructed wetland conveyance system will be connected to the POTW system, if feasible. If the flow from Park properties is diverted to a POTW, the constructed wetland treatment system will be taken out of service.

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

*City of Hudson* - This area located within the City of Hudson contains large undeveloped tracts of land and vacant lots subject to improvement. All new commercial, industrial, institutional and residential developments in this area of Hudson shall be required to connect to the existing sanitary sewer system for the removal of sanitary wastewater from each new facility within the new development, fully observing all regulations of governing agencies. The developer shall be required to extend new sanitary sewers from the proposed development to the existing sanitary system that is served by an existing publicly-owned wastewater treatment facility. Existing non-single-family private treatment systems which fail to operate properly will be required to connect to and/or provide sanitary service to ensure that wastewater will be treated at an existing POTW. Failing home sewage treatment systems (HSTSs) serving single-family homes shall be abandoned and the home connected to sanitary sewer service in accordance with Ohio Administrative Code (OAC) 3701-29-02(M) unless sewer service is not accessible, in which case the HSTS must be repaired or replaced to meet the standards found within OAC 3701-29.

**Areas that will be Served by a POTW or by Home Sewage and Semi-Public Sewage Disposal Systems On-Site Non-discharging Systems (green):**

*Sagamore Hills and Northfield Center Township* - These are rural areas with undeveloped tracts of land and vacant lots subject to improvement and many existing subdivisions developed in the past using HSTSs for wastewater treatment. All new subdivision development, whether residential or non-residential, and all other new non-residential, and new multi-family residential development, will be required to connect and/or provide sanitary service to ensure that wastewater will be treated at an existing POTW. Vacant lots within existing HSTS-served subdivisions and remote metes-and-bounds residentially-zoned parcels may be so improved with new HSTSs provided the local health department finds that soils are suitable to assure there will be no off-lot discharge of effluent. Existing non-single-family private treatment systems which fail to operate properly will be required to connect to and/or provide sanitary service to ensure that wastewater will be treated at an existing POTW. Exceptions may be (granted/requested)

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based on sewer availability, soil conditions, extent of failure, and cost of repair. Failing home sewage treatment systems (HSTSs) serving single-family homes shall be abandoned and the home connected to sanitary sewer service in accordance with Ohio Administrative Code (OAC) 3701-29-02(M) unless sewer service is not accessible, in which case the HSTS must be repaired or replaced to meet the standards found within OAC 3701-29.

*Cities of Macedonia and Hudson and Twinsburg Township* - All new subdivision development, whether residential or non-residential, and all other residential and new non-residential, and new multi-family residential development, will be required to connect to and/or provide sanitary service to ensure that wastewater will be treated at an existing POTW. Existing single-family residences with failing HSTSs, or new residential house construction in remote areas may use HSTSs for wastewater treatment provided there is no conflict with OAC 3701-29-02. Existing non-single-family private treatment systems which fail to operate properly will be required to connect and/or provide sanitary service to ensure that wastewater will be treated at an existing POTW.

*Village of Boston Heights* - This is a rural village with great potential for both residential and non-residential development due to the easy access to the intersection of State Route 8 with Interstate Route 80 coupled with being adjacent to the Cuyahoga Valley National Park (CVNP). Sanitary sewers are available north of the Interstate under agreement with the Northeast Ohio Regional Sewer District (NEORS). North of the Interstate, all new subdivision development, whether residential or non-residential, and all other new non-residential, and new multi-family residential development, will be required to connect to and/or provide sanitary service to ensure that wastewater will be treated at an existing POTW. Existing single-family residences with failing HSTSs, or new single-family residential house construction in remote areas may use HSTSs for wastewater treatment provided there is no conflict with OAC 3701-29-02. Existing non-single-family private treatment systems which fail to operate properly will be required to connect to and/or provide sanitary service to ensure that wastewater will be treated at an existing POTW. In the portion of Boston Heights south of Interstate 80 but within the CVI, FPA sewer service is not currently available at this time. Notwithstanding this, and being adjacent to the CVNP, it is recommended that no new subdivision-type or multi-family development be permitted in this area until sanitary sewers become available. Single lots and metes-and-bounds parcels for new and existing (failing HSTS) single-family residential house construction may utilize HSTSs provided local health department approval is obtained. New non-residential (semi-public) single-building development and properties with failing private treatment systems shall meet the Ohio EPA rules and regulations.

*Richfield Township* - This area is a rural setting, which is split vertically by a developing Richfield Village in the center. The Village is served by its own sanitary sewer system that has been designed to serve only limited areas of the township and with the condition of annexation first. For locations in the Township where sanitary sewer service may be made available, all new subdivision development, whether residential or non-residential,

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and all other new non-residential, and new multi-family residential development, will be required to connect to and/or provide sanitary service to ensure that wastewater will be treated at an existing POTW. Where sanitary sewer service cannot be made available, new single-family subdivisions and non-residential single-building development may utilize HSTSs provided the local health department finds that soils are suitable to assure there will be no off-lot discharge of effluent. Properties with existing but failing private treatment systems shall meet the Ohio EPA rules and regulations. Single lots and metes-and-bounds parcels for new and existing (failing HSTS) single-family residential house construction may utilize HSTSs provided local health department approval is obtained.

Richfield Village Jurisdiction

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

These areas are currently served with sanitary sewers that have been constructed and are currently in operation. However, there may be tracts of land and vacant lots subject to improvement. All new development and construction in the yellow areas of this facility planning area will be required to connect to and/or provide sanitary service to ensure that wastewater will be treated at an existing publicly-owned treatment works. Existing occupied structures found within 200 feet of an existing sanitary sewer will be required to connect to the sewer system and the existing on-site treatment systems will be abandoned.

**Areas Programmed for Sewers Expected to be Served with Sanitary Sewers within the Next 20 Years (orange):**

These areas are projected to receive sewers but are not yet sewered. Projected wastewater flow from these areas has been accounted for within the system including the following options:

1. All new wastewater generated by residential subdivisions, commercial, industrial and institutional development will be required to connect to the sanitary sewer system for the removal of sanitary wastewater.
2. Existing residential, commercial, industrial and institutional development will be required to connect to the sanitary sewer system as it becomes available and the existing on-site treatment systems will be abandoned.

Limited Areas In Richfield Township Outside Richfield Village Limits But Included In The Village Sewer Service Area

**Areas that will be Served by a POTW or by Home Sewage and Semi-Public Sewage Disposal Systems On-Site Non-discharging Systems (green):**

This area is a rural setting, which is split by a developing Richfield Village in the center. The Village is served by its own sanitary sewer system that has been designed to serve limited areas in the Township. The wastewater generated from these limited township areas has been accounted for within the Village system. Areas complying with Village requirements will be required to connect to the sanitary sewer system including the following options:

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1. All new wastewater generated by residential subdivisions, commercial, industrial and institutional development will be required to connect to the sanitary sewer system for the removal of sanitary wastewater.
2. Existing residential, commercial, industrial and institutional development will be required to connect to the sanitary sewer system as it becomes available and the existing on-site treatment systems will be abandoned.

Northfield Village Jurisdiction

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

These areas are currently sewered with sanitary sewers that are constructed and are currently in operation. However, there are a few undeveloped tracts of land and may vacant lots subject to improvement. All new development and construction in the yellow areas of this facilities planning area will be required to connect and/or provide sanitary service to ensure that wastewater will be treated at an existing publicly-owned treatment works. Presently, there are no known private treatment systems within the area.

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

This area is within the sanitary service area but is not yet sewered. Projected wastewater flow from this area is accounted for within the system. Future industrial development within this area will drive the construction of sewers in this area. Existing on-site systems may continue to be used but must be abandoned if they fail and/or when sewers become available.

Hudson (Old Village) Jurisdiction

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

These areas are currently served with sanitary sewers that have been constructed and are currently in operation. However, there may be undeveloped tracts of land and vacant lots subject to improvement. All new development and construction in the yellow areas of this facilities planning area will be required to connect and/or provide sanitary service to ensure that wastewater will be treated at an existing publicly-owned treatment works (POTW). Existing non-single-family private treatment systems which fail to operate properly will be required to connect to and/or provide sanitary service to ensure that wastewater will be treated at an existing POTW. Failing HSTSs serving single-family homes shall be abandoned in accordance with Ohio Administrative Code 3701-29-02.