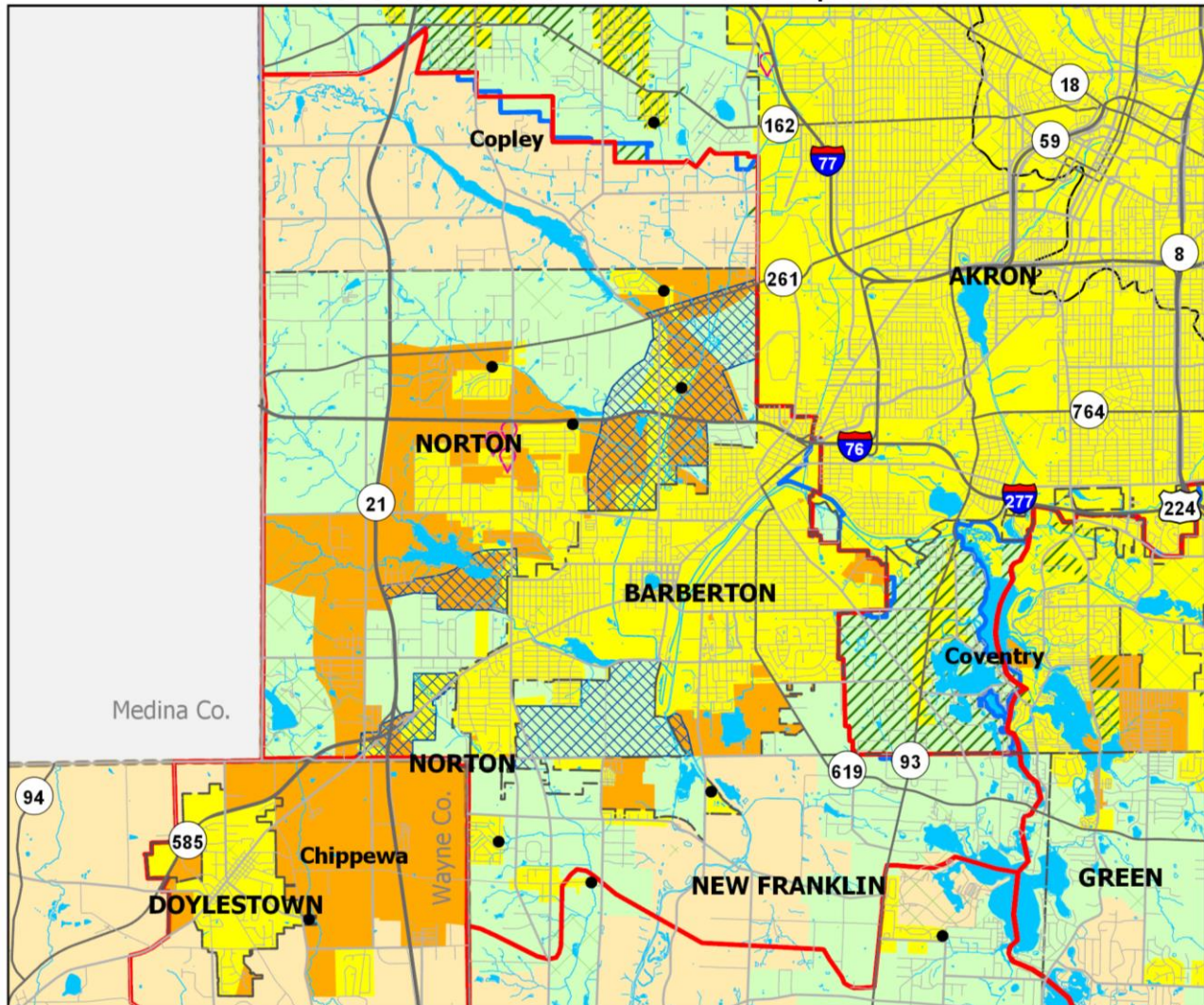


## **Appendix 3-29**

### **Barberton - Wolf Creek Facilities Planning Area**

# Barberton-Wolf Creek Facilities Planning Area

## 208 Clean Water Plan - 2020 Update



- |   |  |
|---|--|
| Areas Currently Served with Sanitary Sewers   | Proposed FPA Boundary                            |
| Areas Expected to be Served with Sanitary Sewers within the next 20 Years                     | Existing FPA Boundary                            |
| Areas that will be Served by Home Sewage and Semi-Public Sewage Disposal Systems              | Stream   |
| Areas that will be Served by a POTW or by Home Sewage and Semi-Public Sewage Disposal Systems | Community Boundary                               |
| Akron Joint Economic Development District Contract Areas                                      | Numbered Rte                                     |
| Barberton-Norton Joint Economic Development District Contract Areas                           | Other major road                                 |
| Parks and Natural Areas   | Publicly Owned Wastewater Treatment Works (POTW) |
| Lakes and Ponds   |  |

\* Please see Clean Water Plan text for a complete explanation of the mapping categories.  
 \* Please see the FPA Reference Map (Appendix 3-1) for names of adjacent FPAs .



Northeast Ohio Four County Regional Planning and Development Organization, 2019  
 Sources: Summit County GIS; Portage County GIS; Ohio EPA; National Hydrologic Database; NEFCO

## **Barberton-Wolf Creek Facilities Planning Area**

### **I. Existing Situation**

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

Summit / Ohio River Basin

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

Barberton-Wolf Creek

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

##### **I. Primary DMAs**

- a) City of Barberton
- b) City of Akron

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

- a) City of Barberton
- b) Summit County Department of Environmental Sanitary Sewer Services
- c) City of Akron

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

Barberton WWTP 6.0 MGD

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

Burgess and Niple, Ltd. and John David Jones and Associates, Inc., Barberton-Wolf Creek Facilities Plan for Wastewater Collection and Treatment, October 1978, Volumes I and II. Burgess and Niple, Ltd., Barberton-Wolf Creek Wastewater Facilities Plan Update, February 1983. Burgess and Niple, Ltd., Barberton-Wolf Creek Facilities Plan Update '85, September 1985.

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

Summit County - City of Barberton, City of Norton, Copley Township (part), Franklin Township (part), Coventry Township (part), and Chippewa Township (part)

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

Tuscarawas River

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

- a. Mr. James Stender, Superintendent of Utilities  
Utilities Department  
City of Barberton  
576 W. Park Ave  
Barberton, OH 44203  
Phone: (330) 848-6713  
Fax: (330) 848-6664

- b. **Mr. Michael Vinay, Director**  
 Summit County Department of Environmental Services  
 — 2525 State Road  
 — Cuyahoga Falls, Ohio 44223  
 Summit County Department of Sanitary Sewer Services  
 1180 South Main Street, Suite 201  
 Akron OH 44301  
 Phone: (330) 926-2400  
 Fax: (330) 926-2471
- c. Mr. Dave White  
 Municipal Engineer  
 City of Norton  
 4060 Columbia Woods Dr.  
 Norton, Ohio 44203  
 Phone: (330) 825-7815 x 349
- d. Mr. Barry Ganoe  
 Zoning Inspector  
 City of New Franklin  
 5611 Manchester Road  
 Akron, Ohio 44319  
 Phone: (330) 882-4611  
 Fax: (330) 882-7052

**I. Population Served:**

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

	<u>2000</u>	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>
Barberton - Wolf Creek	76,790	77,470	-----	-----	-----	-----
201	65,679	66,962	-----	-----	-----	-----
Approved 208						

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 Sanitary Sewer Services, (in progress), and City of Barberton, November 22, 2000.

City of Barberton

**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 are 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 sewer service to ensure that wastewater will be treated at an existing publicly-owned treatment works (POTW). Failing home sewage treatment systems (HSTSs) serving single-family

homes shall be abandoned in accordance with Ohio Administrative Code 3701-29-02 (OAC 3701-29-02).

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

These areas are proposed to be served with sanitary sewers. However, there may be undeveloped tracts of land and vacant lots subject to improvement. All new development and construction in the orange areas of this facilities planning area will be required to connect to and/or provide sanitary sewer service to ensure that wastewater will be treated at an existing publicly-owned treatment works (POTW) with modifications or expansions as required to handle the flow. Existing non-residential private treatment systems (semi-public), which cease to operate properly, shall be abandoned and connection made to the existing sanitary sewer system. Failing HSTSs serving single family homes shall be abandoned in accordance with Ohio Administrative Code 3701-29-02.

**Areas that will be Served by a Publicly-Owned Treatment Works (POTW) or by Home Sewage Treatment Systems (HSTSs), and Semi-Public Sewage Disposal Systems (SPSDSs), and other non-discharging systems (green):**

No HSTSs are recommended for new commercial, industrial, institutional and residential development. However, HSTSs shall be considered appropriate for new single-family houses constructed within existing subdivisions that are available to properties. HSTSs shall also be considered appropriate for new single-family houses built on metes-and-bounds parcels that are not part of any existing subdivision and are not located adjacent to any publicly-owned sanitary sewer.

All new commercial, industrial, institutional and residential subdivision developments 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 sewer sanitary sewers as necessary from the proposed development to the existing sanitary sewer system that is served by an existing POTW. Failing systems in need of repair/replacement will be required to connect to the existing sanitary sewer facilities, even if a sewer extension is required.

*City of Barberton Wastewater Jurisdiction – City of Norton*

**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. Any 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 transported and treated at an existing publicly-owned treatment works (POTW). As sanitary sewers become available, properties served by existing home sewage treatment systems (HSTSs) or semi-public/private treatment systems will be required to connect and/or provide sanitary service to ensure that wastewater will be transported and treated at an existing POTW. Failing HSTSs or semi-public/private wastewater treatment systems shall be abandoned in accordance with the Ohio Administrative Code 3701-29 and be required to provide sanitary service to ensure that wastewater will be transported and treated at an existing POTW.



**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 contains large undeveloped tracts of land and vacant lots subject to improvement. In no case shall a system producing an off-lot discharge of effluent be permitted for new construction.

All new subdivision development, whether residential or non-residential, 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. All proposed new commercial, industrial, and institutional development, located where access to sanitary sewer is not currently available, may be considered for installation of a new semi-public or private sewage treatment system provided the local health department or OEPA and the local Sanitary Engineer concur that a public wastewater collection system will remain unavailable for the foreseeable future. When sanitary sewers become available, all existing systems will be required to connect to sanitary sewers to ensure that wastewater will be treated at an existing POTW.

Existing (developed) multi-family, commercial, industrial, and institutional properties, major and minor subdivisions, along with single-family home HSTSs within this area, shall be required to connect to the sanitary sewer, as it becomes available, for the removal and treatment of sanitary wastewater. At the cost of the current property owner, all semi-public or private sewage treatment systems including functioning systems shall be connected to sanitary sewer when it becomes available or when the property owner is so directed by the Ohio EPA or local health department.

All failing HSTSs must be repaired or replaced to meet the standards found within OAC 3701-29, providing that the local health department finds a suitable treatment system design and installation that meets state and local requirements. All failing semi-public/private treatment systems must be repaired or replaced as required by the OEPA. The local planning agency, health department, OEPA and the local Sanitary Engineer must also concur that a public wastewater collection system will remain unavailable for the foreseeable future.

In areas where restrooms were installed or needed on public park properties where sanitary sewers are not available, park districts may install restroom facilities which store or compost generated wastewater. These restroom facilities shall not be connected to a potable water source (for use with sinks, flush toilets, kitchens) nor receive discharges from potable water facilities (including drainage from outside water fountains, kitchens etc.). These facilities must obtain an Ohio EPA Permit to Install and supply an operation and maintenance plan to the property owner for their acceptance.

**Joint Economic Development District Areas** (dark blue hatch)

*City of Norton-City of Barberton Joint Economic Development Districts (Fairland Road, Lake Dorothy, Barber Road, and Wooster Road Districts)*

A contract exists between the City of Norton and the City of Barberton, a Joint Economic Development District (JEDD) that provides for sanitary sewer service being extended into JEDD areas pursuant to contract terms. The “prescriptions” for the JEDD Service Areas are as follows:

**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. Any 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 transported and treated at an existing publicly-owned treatment works (POTW). As sanitary sewers become available, properties served by existing home sewage treatment systems (HSTSs) or semi-public/private treatment systems will be required to connect and/or provide sanitary service to ensure that wastewater will be transported and treated at an existing POTW. Failing HSTSs or semi-public/private wastewater treatment systems shall be abandoned in accordance with the Ohio Administrative Code 3701-29-02 and be required to provide sanitary service to ensure that wastewater will be transported and treated at an existing POTW.

**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 contains large undeveloped tracts of land and vacant lots subject to improvement. In no case shall a system producing an off-lot discharge of effluent be permitted for new construction. Also, experimental systems as defined by the Ohio Department of Health are prohibited as a wastewater treatment option in this area.

All new subdivision development, whether residential or non-residential, 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. All proposed new commercial, industrial, and institutional development, located where access to sanitary sewer is not currently available, may be considered for installation of a new semi-public or private sewage treatment system provided the local health department or OEPA and the local Sanitary Engineer concur that a public wastewater collection system will remain unavailable for the foreseeable future. When sanitary sewers become available, all existing systems will be required to connect to sanitary sewers to ensure that wastewater will be treated at an existing POTW.

Existing (developed) multi-family, commercial, industrial, and institutional properties, major and minor subdivisions, along with single-family home HSTSs within this area, shall be required to connect to the sanitary sewer, as it becomes available, for the removal and treatment of sanitary wastewater. At the cost of the current property owner, all semi-public or private sewage treatment systems including functioning systems shall be connected to sanitary sewer when it becomes available or when the property owner is so directed by the Ohio EPA or local health department.

All failing HSTSs must be repaired or replaced to meet the standards found within OAC 3701-29, providing that the local health department finds a suitable treatment system design and installation that meets state and local requirements. All failing semi-public/private treatment systems must be repaired or replaced as required by the OEPA. The local planning agency, health department, OEPA and the local Sanitary Engineer must also concur that a public wastewater collection system will remain unavailable for the foreseeable future.

Summit County Department of Environmental Sanitary Sewer Services Jurisdiction-Copley Township

**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 contains large undeveloped tracts of land and vacant lots subject to improvement. All new subdivision development, whether residential or non-residential 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. Land irrigation is prohibited as a wastewater treatment option in this area and in no case shall a system providing an off-lot discharge of effluent be permitted for new construction.

Failing HSTSs shall be abandoned in accordance with Ohio Administrative Code 3701-29-02 unless sewer service is not available, in which case the HSTS must be repaired or replaced to meet the standards found within OAC 3701-29 providing that the local health department finds that the soils are suitable or agrees to another disposal method that will not cause an off-lot discharge of effluent.

When sanitary sewers become available all wastewater systems will be required to connect to sanitary sewers to ensure that wastewater will be treated at an existing POTW.

Northern Copley Township within the Yellow Creek Service Area

1. The area of Copley Township West of I-77 (South Hametown Road Area)

All new residential subdivision developments and new commercial, industrial, institutional establishments within West Interstate Route 77 sanitary sewer service area shall be required to connect to the existing sanitary sewer system for the removal of sanitary wastewater from each new building unit or facility, fully observing all regulations of governing agencies. The developer or owner shall be required to extend new sanitary sewers as necessary from the proposed development of facility to the existing sewer system that is served by an existing, but not necessarily specified, publicly-owned wastewater treatment facility.

Home sewage treatment systems (HSTSs) may be considered appropriate for new single family houses constructed on “metes-and-bounds” parcels or within existing subdivisions if such parcel or subdivision is not currently served with sanitary sewer, and provided the new structure is not within 200 feet of an existing sanitary sewer.



Failing HSTSs serving existing buildings (residential or otherwise) in need of repair/replacement will be required to connect to the existing sanitary sewer facilities if a sanitary sewer service is reasonably available. The definition of reasonable will be left to local discretion. The Summit County Department of ~~Environmental~~ **Sanitary Sewer Services** will not arbitrate in these cases.

*2. The area of Copley Township East of I-77 (Rothrock Road Area)*

All new residential subdivision developments, new residential buildings constructed on “metes-and-bounds” parcels and new commercial, industrial, institutional establishments within the East Interstate Route 77 sanitary sewer service area shall be required to connect to the existing sanitary sewer system for the removal of sanitary wastewater from each new building unit or facility, fully observing all regulations of governing agencies. The developer or owner shall be required to extend new sanitary sewers as necessary from the proposed development or facility to the existing sewer system that is served by an existing, but not necessarily specified, publicly-owned wastewater treatment facility. All failing HSTSs in need of repair/replacement will be required to connect to the existing sanitary sewer facilities, even if a sewer extension is required.

**Joint Economic Development District Contract Areas (green hatch)**

*Copley Township – City of Akron Joint Economic Development District Contract Area:*

A Joint Economic Development District (JEDD) contract exists between the City of Akron and the Copley Township Trustees providing for sanitary sewer service being extended to JEDD areas and to township service areas pursuant to contract terms by the City of Akron upon approval of Copley Township Trustees. The City of Akron’s “prescriptions” for this JEDD Service Area are as follows:

**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. Any 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 and discharged at an existing POTW. Failing home sewage treatment systems (HSTSs) serving single-family homes shall be abandoned in accordance with Ohio Administrative Code 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.

**Areas Expected to be Served with Sanitary Sewers within the next 20 Years ~~Existing Developed Areas~~ (orange)**

Existing (developed) commercial, industrial, institutional and residential properties within the sanitary service area shall be required to connect to the sanitary sewer, as it becomes available, for the removal of sanitary wastewater.

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

All new residential developments and new commercial, industrial, institutional establishments within the sanitary sewer service area shall be required to connect to the existing sanitary sewer system for the removal of sanitary wastewater, fully observing all

regulations of governing agencies. The developer or owner shall be required to extend new sanitary sewers from the proposed development to the existing sanitary sewer system that is served by an existing POTW or regional facility.

Failing systems of existing commercial and institutional establishments, in need of repair or replacement, will be required to connect to the existing sanitary sewer that is served by an existing POTW, even if a sewer extension is required.

No home sewage treatment systems (HSTSs) are recommended within the sanitary sewer service area for new commercial, industrial, institutional, or residential developments. Non-discharging HSTSs shall be considered appropriate for new single-family homes constructed within existing subdivisions located within the sanitary sewer service area if an existing publicly owned sanitary sewer system is not available to such properties. HSTSs shall also be considered appropriate for new single-family houses built on metes-and-bounds parcels within the sanitary sewer service area that are not part of an existing subdivision and are not located adjacent to any publicly owned sanitary sewer system. The decision to require connection to sanitary sewer shall be determined on a case-by-case basis and in accordance with local zoning, the local planning agency and the Summit County Health Department, as required. Land irrigation is prohibited as a wastewater treatment option in this area.

Summit County Department of ~~Environmental~~ Sanitary Sewer Services Jurisdiction -  
Coventry Township

**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. Any 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 and discharged at an existing publicly-owned treatment works (POTW). Failing home sewage treatment systems (HSTSs) serving single-family homes shall be abandoned in accordance with Ohio Administrative Code 3701-29-02 unless sewer service is not available, in which case the HSTS must be repaired or replaced to meet the standards found within OAC 3701-29. 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.

**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 contains large undeveloped tracts of land and vacant lots subject to improvement. All new subdivision development, whether residential or non-residential 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.

Land irrigation is prohibited as a wastewater treatment option in this area and in no case shall a system providing an off-lot discharge of effluent be permitted for new construction.

Failing HSTSs shall be abandoned in accordance with Ohio Administrative Code 3701-29-02 unless sewer service is not available, in which case the HSTS must be repaired or replaced to meet the standards found within OAC 3701-29 providing that the local health department finds that the soils are suitable or agrees to another disposal method that will not cause an off-lot discharge of effluent.

When sanitary sewers become available all wastewater systems will be required to connect to sanitary sewers to ensure that wastewater will be treated at an existing POTW.

**Areas that will be Served by ~~Home Sewage and Semi-Public Sewage Disposal Systems~~ ~~On-site Non-discharging Systems~~: (cream):**

This area is comprised of large undeveloped tracts of land and vacant lots subject to improvement. These are areas in which new development is expected to be “large-lot” low density, with non-discharging household and semi-public disposal systems as the primary method for the treatment of wastewater. Existing HSTSs and non-single-family private treatment systems, which fail to operate properly, will be required to be replaced and or upgraded. The decision to replace or repair existing HSTSs shall be determined on a case-by-case basis and in accordance with the local planning agency and the local health department. If any new development or subdivision is proposed with a system other than an on-lot non-discharging system, the proposed system must receive written approval from the Ohio EPA, local health department, local planning department, and have been proven as safe, reliable, and effective in Northeast Ohio. A performance bond and written guarantee shall be requested from the designer, the developer, and individual owner and any homeowners’ association involved in the subdivision. Land irrigation is prohibited as a wastewater treatment option for this area.

Summit County Department of ~~Environmental~~ ~~Sanitary Sewer~~ Services Jurisdiction – City of New Franklin

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

These areas are served with sanitary sewers that have been constructed and are currently in operation. Any 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 transported and treated at an existing publicly-owned treatment works (POTW). As sanitary sewers become available, properties served by existing home sewage treatment systems (HSTSs) or semi-public/private treatment systems will be required to connect and/or provide sanitary service to ensure that wastewater will be transported and treated at an existing POTW. Failing HSTSs or semi-public/private wastewater treatment systems shall be abandoned and be required to provide sanitary service to ensure that wastewater will be transported and treated at an existing POTW.

**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 contains large undeveloped tracts of land and vacant lots subject to improvement. New single family, multi-family, commercial, industrial, institutional sites

and all subdivisions in this area may be improved with new HSTs or semi-public/private treatment systems provided the local health department or OEPA finds a suitable treatment system design and installation that meets state and local requirements and assures there will be no off-lot discharge of effluent. The local planning agency, health department, OEPA and the local Sanitary Engineer must concur that a public wastewater collection system will remain unavailable for the foreseeable future. All sites will be required to connect and/or provide sanitary service if the regulating agencies find it appropriate and sanitary service is located at a reasonable distance from the land to be developed.

Existing (developed) multi-family, commercial, industrial, and institutional properties, major and minor subdivisions, along with single-family home HSTs within this area shall be required to connect to the sanitary sewer, as it becomes available, for the removal and treatment of sanitary wastewater.

All failing HSTs must be repaired or replaced to meet the standards found within OAC 3701-29 and the local health department regulations. All failing semi-public/private treatment systems must be repaired or replaced as required by the OEPA. The local planning agency, health department, OEPA and the local Sanitary Engineer must also concur that a public wastewater collection system will not be available for some time. All failing sites will be required to connect and/or provide sanitary service if the regulating agencies find it appropriate and sanitary service is located at a reasonable distance from the land to be developed.

Land irrigation is prohibited as a wastewater treatment option in this area.

**Areas that will be Served by ~~Home Sewage and Semi-Public Sewage Disposal Systems~~ ~~On-site Non-discharging Systems (cream):~~**

This area is comprised of large undeveloped tracts of land and vacant lots subject to improvement. These are areas in which new development is expected to be “large-lot” low density, with non-discharging household and semi-public/private disposal systems as the primary method for the treatment of wastewater. Vacant lots within existing HSTs-served subdivisions and remote metes-and-bounds residentially-zoned parcels may be so improved with new HSTs provided the local health department finds a suitable treatment system design and installation that meets state and local requirements and assures there will be no off-lot discharge of effluent. All new multi-family, commercial, industrial, institutional and major and minor subdivisions in this area shall install on-site non-discharging semi-public/private treatment systems providing that the local health department and the OEPA finds that the soils are suitable.

Failing HSTs and semi-public/private wastewater treatment systems will be required to be repaired, replaced and or upgraded. The decision to replace or repair existing HSTs shall be determined on a case-by-case basis and in accordance with the local planning agency and the local health department and the OEPA.

Land irrigation is prohibited as a wastewater treatment option in this area.