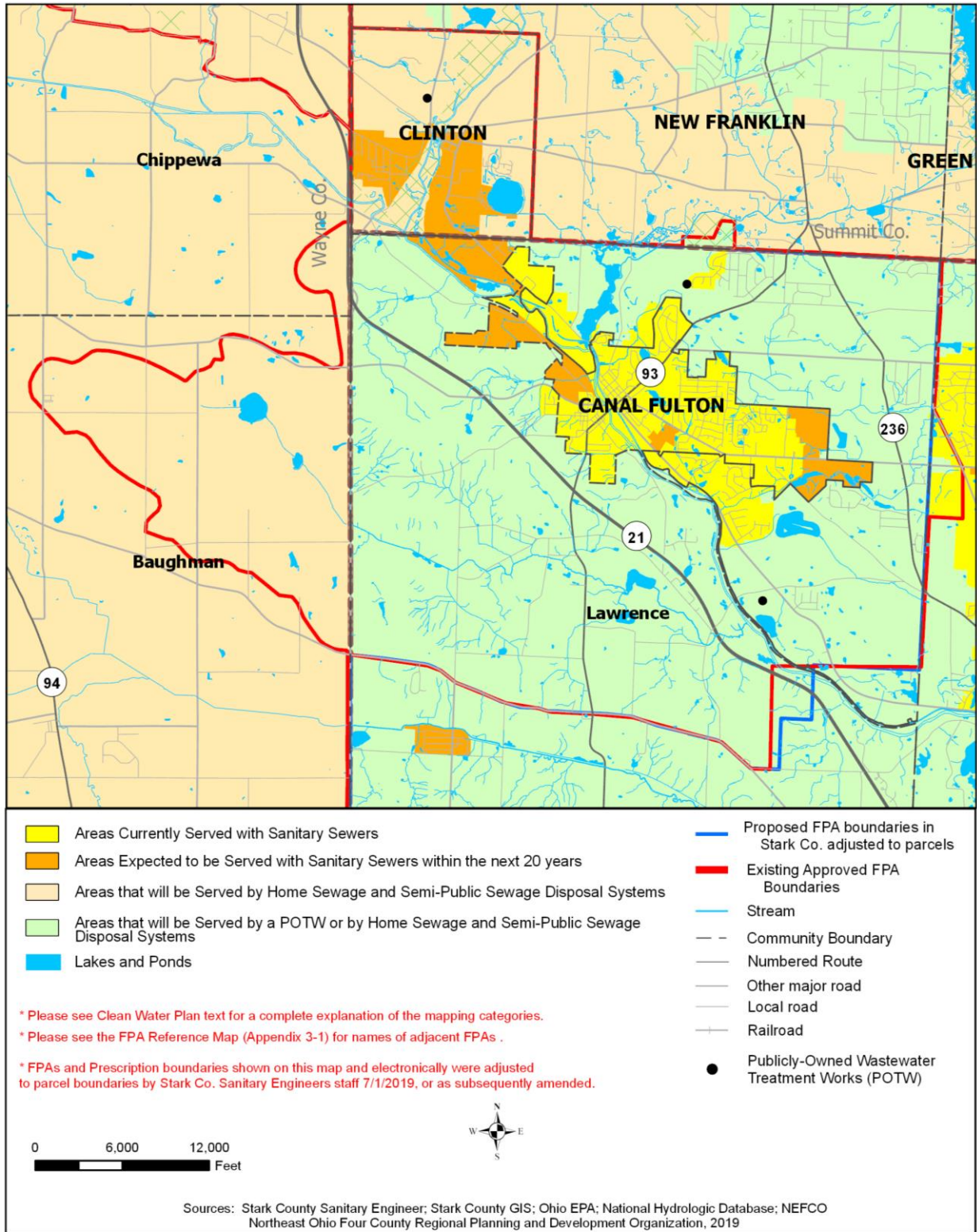


Appendix 3-18

Canal Fulton Facilities Planning Area

Canal Fulton Facilities Planning Area

208 Clean Water Plan - 2020 Update



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 July 18, 2012

Canal Fulton Facilities Planning Area

I. Existing Situation

A. County/Basin:

Stark, Summit, and Wayne / Ohio River Basin

B. Facilities Planning Area:

Canal Fulton

C. Designated Management Agency (DMA):

I. Primary DMA

a) City of Canal Fulton

II. Secondary DMAs

a) Stark County Metropolitan Sewer District

b) Wayne County Office of Environmental Services

c) Summit County Department of Environmental Sanitary Sewer Services

D. Publicly-Owned Treatment Works:

a. City of Canal Fulton WWTP, 1.5000 MGD

b. Spring Valley WWTP, 0.080 MGD

E. Facilities Plan:

Village of Canal Fulton, Stark County, Ohio and Adjacent Township Areas: Facilities Plan. June, 1976, revised April, 1977. Prepared by Shisler, Hunsinger & Associates.

An infiltration/inflow study was completed and certified in 1975.

Southwest Summit County Wastewater Study. November 1, 2010. Prepared by CTI Engineers, Inc. and Floyd Browne Group.

F. Area Served:

Stark County - City of Canal Fulton, Jackson Township (part), and Lawrence Township (part)

Summit County – Village of Clinton

Wayne County - Baughman Township (part) and Chippewa Township (part)

G. Receiving Stream:

a. Tuscarawas River

b. Plum Run

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July 18, 2012**

H. Contact Person/Address/Phone/Fax:

- a. Mr. **Mark Cozy, City Manager** ~~Dan Mayberry, Director of Public Utility Services~~
 City of Canal Fulton
 155 East Market Street Suite A
 Canal Fulton, Ohio 44614
 Phone: (330) 854-225044 ext 119
 Fax: (330) 854-6913

- b. Mr. Jim **Troike Jones, P.E.**, Sanitary Engineer
 Stark County Metropolitan Sewer District
 P.O. Box 9972 7906
 1701 Mahoning Road. N.E.
 Canton, Ohio 44711-0972 44705-7906
 Phone: (330) 451-2303 438-9393
 Fax: (330) 451-2368 453-9044

- c. ~~Dave Marquard, Director~~
~~Summit County Department of Environmental Services~~
~~2525 State Road~~
~~Cuyahoga Falls, OH 44223~~
Michael Vinay, Director
Summit County Department of Sanitary Sewer Services
1180 South Main Street, Suite 201
Akron OH 44301
 Phone: (330) 926-2400
 Fax: (330) 926-2471

- d. Mr. Robert Kastner, P.E., Water Management Engineer
 Wayne Soil & Water Conservation District
 County Administration Building
 428 West Liberty Street
 Wooster, OH 4491
 Phone: (330) 262-2836
 Fax: (330) 262-7422

I. Population Served:

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

Canal Fulton	<u>2000</u>	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>
201	-----	-----	-----	-----	-----	-----
Approved 208	17,440	-----	-----	-----	-----	-----

The above population projections (Approved 208) were prepared in 1990. Updated

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July 18, 2012**

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 City of Canal Fulton, October 2003, the Stark County Metropolitan Sewer District, January 15, 2004, and the Wayne County Office of Environment Services (in progress).

City of Canal Fulton Jurisdiction

Areas Currently Served with Sanitary Sewers (yellow):

These areas are currently served with existing sanitary sewers. However, there still may be undeveloped tracts of land and vacant lots that are subject to improvement.

The connection of existing structures to sanitary sewers shall be required by the Stark County Health Department where the structure is less than 400 feet from the sewer. This requirement for sewer connection may be waived should the owner of the structure establish that a sanitary sewer connection would cost 2 ½ times the cost of a best available treatment disposal system, or, if for other reasons, it is determined that connection is impractical. In order to verify the ratio, the owner must submit three (3) written quotes for a sanitary sewer connection and three (3) written quotes for a disposal system installation.

With regard to new development/construction, distance to the sewer is not a fundamental consideration in and of itself. That is, connection to sanitary sewer can be required for new development/construction located not only less than 400 feet, but also greater than 400 feet from an existing sewer. Before a new home sewage disposal system or semi-public disposal system would be approved, it must first be established that the cost of a sanitary sewer connection is more than 2 ½ times as costly as a home sewage disposal system or semi-public disposal system, as set forth above. Further consideration as to the advisability of approving new home sewage or semi-public disposal systems would be reviewed critically on a case by case basis by the Stark County Health Department, taking into account all environmental and economic factors that may bear on the subject development/construction.

Home sewage disposal systems are discouraged for new subdivisions. Subdivisions are defined as divisions of property into four (4) or more parcels/lots. New subdivisions shall comply with Stark County Health Department Regulations, Chapter 3701-29-03, Paragraph B shall apply as follows: “No person shall install household sewage disposal systems in new subdivisions of four (4) or more lots unless it is considered to be impractical or inadvisable by the Board of Health and the Ohio Environmental Protection Agency to install a central sewage system”. Small wastewater treatment plants, commonly referred to as “package plants”, will not be approved for new residential, commercial or industrial subdivisions.

At time, sanitary sewer connections will, of necessary due to topography, require a pump station and force main. The City of Canal Fulton City Engineer shall review in detail all proposed force main connections 400 feet or greater in length, reserving to itself the authority

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July 18, 2012**

to disallow connections due to the length of the force main and/or the nature and volume of waste to be discharged.

Canal Fulton Ordinance 31-81 Sanitary Connections Required Where Available

No person, either as owner, agent, renter, lessee or employee, shall build, construct, maintain or use on any lot or premise, within the City, any toilet, closet, or privy the excrement from which is deposited in a vault, excavation or receptacle, which vaults, excavation or receptacle is not connected with and flushed into a sanitary sewer, whenever such lots, lands or premises are capable of direct connection with any sanitary sewer.

Areas that will be Served by a POTW or by Home Sewage or Semi-Public Disposal Areas Expected to be Served with Sanitary Sewers within the next 20 Years system (orange):

These areas are project to receive sanitary sewers within the next 20 years but have not yet been sewerred. All wastewater generated by new major residential, commercial, and industrial land developed in this area will be required to connect to the public sanitary sewer system. The developer shall be required to extend new sanitary sewers as necessary to be connected to the municipally operated wastewater treatment facility.

Areas located outside the FPA and contiguous to the FPA desirous to receive sanitary sewer service connection will be required to annex to the City of Canal Fulton. HSTS or semi-public disposal system will be required to connect to the public sewer systems as they become available. Failing HSTS and semi-public systems may be updated in the absence of a sanitary sewer system. As sanitary sewers become available, within 200 feet of a building foundation, the owner will be required to connect to the public sewer systems.

The Stark County Sanitary Engineer’s Office is responsible for areas of public sewers inside the overall FPA currently served by public sewers presently constructed and currently in use. These areas are regulated by the Stark County Sanitary Engineer’s Office. Wastewater Treatment Planning Prescriptions and Wastewater Planning Options will be addressed by the Stark County Sanitary Engineer’s Office.

Areas that will to be served by a POTW or by Home Sewage and Semi-Public Sewage Disposal Systems (green):

Connections in this area to a sanitary sewer for treatment at a POTW will be rare but not impossible. The wastewater treatment planning prescription as described above for the currently sewerred areas will apply to these areas.

Stark County Metropolitan Sewer District Jurisdiction

Areas Currently Served with Sanitary Sewers (yellow):

These areas are currently served with sanitary sewer. However, there still may be undeveloped parcels of land that are subject to improvement and isolated structures that are not connected to sanitary sewer.

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July 18, 2012**

All new developments in yellow areas will be required to connect to existing sanitary sewer or construct a new sanitary mainline sewer to ensure that wastewater will be transported to an existing publicly owned treatment works (POTW). Properties served by household sewage treatment systems (HSTS), small flow on-site sewage treatment systems (SFOSTS), or semi-public sewage treatment systems will be required to connect to sanitary sewer when it becomes available. The cost of such sewer connection shall be born by the property owner. Properties with failing HSTS, SFOSTS, or semi-public sewage treatment systems will be required to connect to existing sanitary sewer, or a mainline sanitary sewer must be constructed by the property owner to ensure that wastewater will be transported to and treated by a POTW. HSTS, SFOSTS and semi-public sewage treatment systems shall be abandoned in accordance with law. For both new and existing developments, the Stark County Sanitary Engineer will determine whether or not the sewer connection is acceptable. If it is determined by the Stark County Sanitary Engineer that the POTW and/or sanitary sewer do not have capacity to accept the connection, or there are other physical, legal or financial barriers prohibiting connections, then documentation that adequately and reasonably supports the claim must be provided to the Stark County Board of Health and/or Ohio EPA. The Board of Health or Ohio EPA, whichever has legal authority over the development, after review of the information, may permit the use of onsite sewage treatment systems. In no case shall a system producing an off-lot discharge of effluent be permitted for new construction. For HSTS and SFOSTS, limited variances to any provision of this prescription may be granted by the Stark County Board of Health, based on sanitary sewer availability and/or accessibility, threat to public health or other unique conditions.

Areas that will be Served by a POTW or Home Sewage or Semi-Public Disposal treatment Systems (green):

(Subdivisions)

New commercial, industrial and residential subdivisions required to be platted by state and/or local regulations will be required to provide sanitary sewer service to ensure that sanitary wastewater will be transported to and treated at an existing POTW when:

1. An existing sewer, owned and operated by a ~~Designated~~ Management Agency (DMA), is within 2,500 ft. of the property proposed for development. For subdivisions which require pumping to reach an existing sewer, the development must comprise a minimum of 50 single-family lots, or the development must be projected to produce the equivalent sewage flow of 50 single-family lots.
2. It is determined by the Stark County Sanitary Engineer that the POTW and existing sanitary sewer have capacity to accept flow from the proposed development.
3. The Stark County Sanitary Engineer deems the connection to sewer as acceptable.
4. There are no other physical, legal or financial barriers prohibiting such connection.

If it is determined that such a barrier exists, then documentation that adequately and reasonably supports the claim must be provided to the Stark County Board of Health and/or the Ohio EPA. The Stark County Board of Health or the Ohio EPA, whichever has legal

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July 18, 2012**

authority over the development, after review of the information, may permit the use of onsite sewage treatment systems. In no case shall a system producing an off-site discharge be permitted for new development. For HSTS and SFOSTS, limited variances to any provision of this prescription may be granted by the Stark County Board of Health based on sanitary availability and/or accessibility, threat to public health or other unique conditions. New, centralized wastewater treatment systems serving new developments with more than one lot/parcel, excluding approved SFOSTS, will not be approved.

(Individual Lots - residential)

New residential development on existing, individual parcels/lots or newly created, unplatted parcels will be required to provide sanitary sewer service to ensure that sanitary wastewater will be transported to and treated at an existing POTW when:

1. An existing sewer, owned and operated by a Designated Management Agency (DMA), is within 400 ft. of the parcel/lot proposed for development.
2. It is determined by the Stark County Sanitary Engineer that the POTW and existing sanitary sewer have capacity to accept flow from the proposed development.
3. The Stark County Sanitary Engineer deems the connection to sewer as acceptable.
4. There are no physical, legal or financial barriers prohibiting such connection.

If it is determined that such a barrier exists, then documentation that adequately and reasonably supports the claim must be provided to the Stark County Board of Health. The Stark County Board of Health, after review of the information, may permit the use of onsite sewage treatment systems. Where sanitary sewer is currently not accessible, individual parcels may be improved with new HSTS or SFOSTS, provided the Stark County Health Department finds that conditions are suitable. In no case shall a system producing an off-site discharge of effluent be permitted for new construction. An owner of an existing parcel served by an HSTS or a SFOSTS may extend a mainline sanitary sewer to the parcel so that wastewater is transported to an existing POTW, when and if the Stark County Sanitary Engineer deems the extension and connection as acceptable. When sanitary sewer becomes available, existing HSTS, SFOSTS and semi-public sewage treatment systems shall be abandoned in accordance with law, and the parcel shall be connected to sanitary sewer at the cost of the parcel owner. For HSTS and SFOSTS, variances to any provision of this prescription may be granted by the Stark County Board of Health based on sanitary sewer availability and/or accessibility, threat to the public health or other unique conditions.

New POTW and sanitary sewer intended to serve areas of existing residential development served by HSTS, SFOSTS and semi-public sewage treatment systems are acceptable.

(Individual Lots - non-residential)

New commercial development on existing individual parcels or newly created unplatted parcels will be required to provide sanitary sewer service to ensure that sanitary wastewater will be transported to and treated by an existing POTW when:

1. An existing sanitary sewer, tributary to a POTW, is within 1,000 ft. of the property proposed for development.
2. It is determined by the Stark county Sanitary Engineer that the POTW and existing sanitary sewer have capacity to accept flow from the proposed development.
3. The Stark County Sanitary Engineer deems the connection to sewer as acceptable.
4. There are no physical, legal or financial barriers prohibiting such connection.

If it is determined that such a barrier exists, documentation shall be provided to the Stark County Board of Health and/or Ohio EPA. The Board of Health or Ohio EPA, whichever has legal authority over the development, after review of the information, may permit the use of onsite sewage treatment systems. In no case shall a system producing an off-site discharge of effluent be permitted for new construction. For HSTS and SFOSTS, limited variances to any provision of this prescription may be granted by the Stark County Board of Health based on sanitary sewer availability and/or accessibility, threat to public health or other unique conditions. New, centralized wastewater treatment systems serving new development with more than one lot/parcel, excluding approved SFOSTS, will not be approved. Properties served by existing, failing semi-public treatment systems or SFOSTS, when deemed necessary by the Stark County Board of Health or Ohio EPA, will be required to connect to existing sanitary sewer, sanitary sewer service must be provided by the property owner to ensure that wastewater will be transported to and treated by an existing POTW. Otherwise, failing semi-public treatment systems and SFOSTS must be repaired or replaced to current standards. At the cost of the property owner, all properties served by semi-public treatment systems or SFOSTS, 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, Stark County Board of Health or Board of Stark County Commissioners.

Areas that will be Served by Home Sewage HSTS, SFOSTS, and Semi-Public Sewage Disposal treatment Systems (cream):

These areas are, for the most part, a great distance from existing sanitary sewers. Approval of connections to sanitary sewer for treatment of effluent at a POTW will be rare. Cream areas that appear closer to existing sewers are often burdened with other limitations to sanitary sewer to connection, such as: sanitary sewer capacity, physical obstructions to sewer construction, and flood plains.

Where sanitary sewer is not accessible, as determined by the Stark County Board of Health in conjunction with the Stark County Sanitary Engineer, new HSTS, SFOSTS or semi-public treatment systems may be permitted for subdivisions or individual parcels, based on evaluation and approval of the Stark County Board of Health or Ohio EPA, depending on authority granted by statute. In no case shall a system producing an off-site discharge of effluent be permitted for new construction. New, centralized wastewater treatment systems serving new development for more than one individual parcel, except approved SFOSTS, will not be approved. If sewer is not available, failing sewage treatment systems will be required to be repaired in accordance with Stark County Board of Health or Ohio EPA requirements, depending upon authority granted by statute.

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July 18, 2012**

Upon sanitary sewer becoming available, properties served by HSTS, SFOSTS or semi-public treatment systems will be required to connect to sanitary sewer to ensure that wastewater will be transported to and treated by a POTW. When sanitary sewer is available, HSTS, SFOSTS and semi-public sewage treatment systems shall be properly abandoned in accordance with law and the property shall be connected to sanitary sewer at the cost of the property owner. For HSTS and SFOSTS, variances to any provision of this prescription may be granted by the Stark County Board of Health based on sanitary sewer availability and/or accessibility, threat to public health or other unique conditions.

Wayne County Office of Environmental Services Jurisdiction

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 Comprehensive Plan as the Conservation Area. The infrastructure policy in the 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. The extension of central sewers to these areas is prohibited. 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 HSTSs and non-discharging SPSDSs as the primary method for the treatment of wastewater. No new discharges!

2. **Existing (developed) Properties:**

- a. Existing HSTSs or 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.

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July 18, 2012**

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

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 HSTSSs 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 HSTSSs 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 HSTSSs 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.

Summit County Department of ~~Environmental~~ Sanitary Sewer Services Jurisdiction – Village of Clinton

Areas Currently Served with Sanitary Sewers ~~Sewered~~ (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 (HSTSSs) 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.

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July 18, 2012**

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

This area contains large undeveloped tracts of land and vacant lots subject to improvement. All new commercial, industrial, institutional and residential developments in this area shall be required to connect to the existing sanitary sewer system, for the removal and treatment of sanitary wastewater, fully observing all regulations of governing agencies. The developer shall be required to extend new sanitary sewers from any proposed development to the existing sanitary system served by a POTW or regional facility.

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

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.

Failing HSTSs serving single-family homes shall be abandoned in accordance with the OAC 3701-29-02. HSTSs shall be considered appropriate for new single-family homes built on metes-and-bounds parcels within this area that are not part of any 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 provided that the local health department finds that the 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.

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.

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July 18, 2012**

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.

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July 18, 2012**

3-18-13