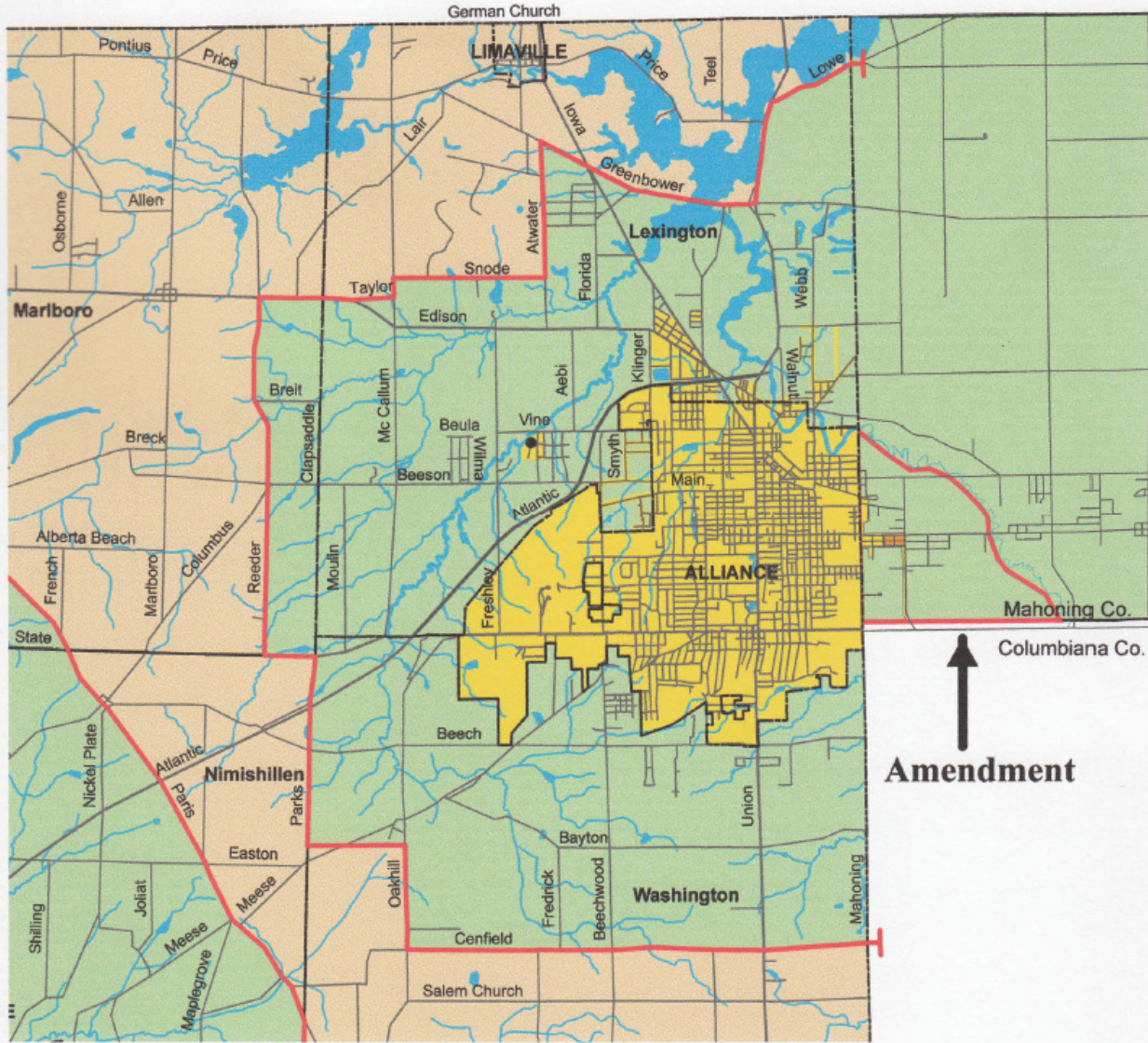














Appendix 3-14

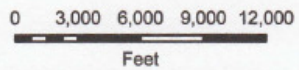
Alliance Facilities Planning Area

Figure 2
Alliance Facilities Planning Area
Proposed Clean Water Plan Amendment



↑
Amendment

- | | |
|--|---|
|  Areas Currently Served with Sanitary Sewers |  FPA Boundary |
|  Areas Expected to be Served with Sanitary Sewers within the Next 20 years |  Stream |
|  Areas that will be Served by Home Sewage and Semi-Public Sewage Disposal Systems |  Community Boundary |
|  Areas that will be Served by a POTW or by a Home Sewage or Semi-Public disposal System |  Highway |
|  Areas without a Wastewater Treatment Prescription |  Road |
|  Lakes and Ponds |  Publicly-Owned Wastewater Treatment Plant |



* Please see Clean Water Plan text for a complete explanation of the mapping categories.

Northeast Ohio Four County Regional Planning and Development Organization, May 2005.
 Eastgate Regional Council of Governments, February 2009

Alliance Facilities Planning Area

I. Existing Situation

A. County/Basin:

Stark, Mahoning and Columbiana / Ohio River Basin

B. Facilities Planning Area:

Alliance

C. Designated Management Agency:

I. Primary DMAs

a) City of Alliance

II. Secondary DMAs

a) Stark County Metropolitan Sewer District

D. Publicly-Owned Treatment Works:

a. Alliance Wastewater Treatment Plant, 7.5000 MGD

b. Village Green WWTP, 0.020 MGD (Stark County)

E. Facilities Plan:

1. Frank A. Thomas & Associates, Inc., Facilities Plan for Improvements in a Proposed Alliance Regional Sewer System, April, 1975.

2. Ibid., Report on Improvements to the Alliance Wastewater Collection System for the City of Alliance, January, 1976.

3. Ibid., The Coordinated Alliance Area Regional Facilities Plan, July, 1976.

4. Ibid., Report on Improvements to the Alliance Wastewater Collection System for the City of Alliance, Addendum, September, 1976.

Planning for the Mahoning - Columbiana Counties portion of the Facilities Planning Area was done by the W. E. Quicksall and Associates in conjunction with the documents described above.

F. Area Served:

Stark County - City of Alliance, Lexington Township (part), Marlboro Township (part) and Washington Township (part)

Mahoning County - Smith Township (part)

Columbiana County - Knox Township (part)

G. Receiving Stream:

a. Beech Creek tributary to Berlin Reservoir

b. Beech Creek

H. Contact Person/Address/Phone/Fax:

- a. **Joe Amabeli**, City Engineer
 City of Alliance
 504 East Main Street
 Alliance, Ohio 44601
 Phone: (330) 823-5122
 Fax: (330) 823-2236

- b. ~~Mr. Michael Armogida, Director~~ **Jim Jones, P.E., Sanitary Engineer**
 Stark County Metropolitan Sewer District
 P.O. Box 7906
 1701 Mahoning Road. N.E.
 Canton, Ohio 44705-7906
 Phone: (330) 438-9303
 Fax: (330) 453-9044

I. Population Served:

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

Alliance	<u>2000</u>	<u>2005</u>	<u>2020</u>	<u>2025</u>
201	33,450	-----	-----	-----
Approved 208	34,662	35,047	-----	-----

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 Stark County Metropolitan Sewer District, January 15, 2005.

City of Alliance 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.

All new developments/construction in this planning area will be required and responsible to connect to and/or provide sanitary service to ensure that wastewater will be transported and treated at an existing publicly owned treatment works (POTW). Properties with failing HSTs or semi-public sewage treatment systems will be required and responsible to connect to existing sanitary sewers, or sanitary sewer service must be provided by the property owner to ensure that wastewater will be transported and treated at an existing POTW. HSTs serving single, two, and three-family homes shall be abandoned in

accordance with Ohio Administrative Code 3701-29-02. For HSTSs, limited variances to any provision of this prescription may be granted by the local Board of Health based on sanitary sewer availability and/or accessibility, threat to the public health, or other unique conditions.

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.

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.

~~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.~~

~~All new developments in this planning area will be required to connect to and/or provide sanitary service to ensure that wastewater will be transported and treated at an existing publicly owned treatment works (POTW). Properties served by household sewage treatment systems (HSTS) or semi-public sewage treatment systems will be required to connect to existing sanitary sewers. Properties with failing HSTSs or semi-public sewage treatment systems will be required to connect to existing sanitary sewers, or sanitary sewer service must be provided by the property owner to ensure that wastewater will be~~

~~transported and treated at an existing POTW. HSTSs serving single, two, and three-family homes shall be abandoned in accordance with Ohio Administrative Code 3701-29-02. For HSTSs, limited variances to any provision of this prescription may be granted by the local Board of Health based on sanitary sewer availability and/or accessibility, threat to the public health, or other unique conditions.~~

Areas that will be served by a POTW or by a home sewage or semi-public treatment disposal systems (green):

~~This area contains large undeveloped tracts of land and vacant lots subject to improvement.~~

(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 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 an/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.

~~New commercial, industrial, institutional, and residential subdivisions in this area will be required to connect to existing sanitary sewers for removal of sanitary wastewater and transportation to an existing POTW. (In accordance with 3701-29-01[KK] of the Stark County Combined General Health District Residential Sewage Regulations, “residential subdivisions” shall be defined as the creation of three (3) or more lots or tracts from one parcel. Creation of these lots may occur all at one time or over a period of time. When~~

~~considering any lot or parcel, the status of the parcel on or before August 11, 1974 will be used. All other subdivisions shall be considered in accordance with Section 711 of the Ohio Revised Code and the Stark County Regional Planning Commission regulations and policies.) The developer shall be required to extend new sanitary sewer service from the proposed development to the existing sanitary sewer system that is served by a POTW. New centralized wastewater treatment systems serving more than one individual lot will not be approved. Variances to any provision of this prescription may be granted by the local Board of Health based on sanitary sewer availability and/or accessibility, threat to public health, or other unique conditions.~~

(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 an/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.

~~Where sanitary sewer is currently not accessible as determined by the local Board of~~

~~Health in conjunction with the County Sanitary Engineer, individual residentially zoned parcels may be so improved with new HSTSs provided the local health department finds that conditions are suitable. In no case shall a system producing an off-lot discharge of effluent be permitted for new construction. When sewer becomes available, existing HSTSs serving single, two, and three family homes shall be abandoned in accordance with Ohio Administrative Code 3701-29-02. For HSTSs, variances to any provision of this prescription may be granted by the local Board of Health based on sanitary sewer availability and/or accessibility, threat to the public health, or other unique conditions.~~

(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.

~~For new commercial development, a new semi-public or private sewage treatment system may be considered for each individual lot only where sewers are not currently accessible as determined by the local Board of Health in conjunction with the County Sanitary~~

~~Engineer. In no case shall a system producing an off lot discharge of effluent be permitted for new construction. Properties served by existing failing semi-public or private sewage treatment systems will be required to connect to existing sanitary sewers or sanitary sewer service must be provided by the property owner to ensure that wastewater will be transported and treated at an existing POTW. At the cost of the current property owner, all semi-public or private sewage treatment systems including functioning systems must also be connected to sanitary sewer when it becomes available or when the property owner is so directed by the Ohio EPA, County Health District or County Commissioners.~~

Areas that will be served by HSTS, SFOSTS, home sewage and semi-public sewage disposal treatment systems and sanitary sewers (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.

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.

~~This area contains large undeveloped tracts of land and connections to a sanitary sewer for treatment at a POTW will be rare.~~

~~Where sanitary sewer is currently not accessible as determined by the local Board of Health in conjunction with the County Sanitary Engineer, a new privately operated sewage treatment system may be allowed for each individual lot based on evaluation and approval of the local Board of Health or OEPA, depending upon authority granted by~~

~~statute. Individual residentially zoned parcels may be improved with new on lot dissipation systems only, provided the local health department finds that site conditions are suitable. In no case shall a system producing an off lot discharge of effluent be permitted for new construction. New centralized wastewater treatment systems serving more than one individual lot will not be approved. Failing sewage treatment systems will be required to be repaired in accordance with local Board of Health or OEPA requirements, depending upon authority granted by statute, if sewer is not available.~~

~~Upon becoming available to sanitary sewer, properties served by HSTSs or semi public or private sewage treatment systems will be required to connect to sanitary sewers to ensure that wastewater will be transported and treated at an existing POTW. If sewer is available, HSTSs serving single, two, and three family homes shall be abandoned in accordance with Ohio Administrative Code 3701 29 02. For HSTSs, variances to any provision of this prescription may be granted by the local Board of Health based on sanitary sewer availability and/or accessibility, threat to public health, or other unique conditions. At the cost of the current property owner, all functioning semi public or private sewage treatment systems must also be connected to sanitary sewer when it becomes available or when the property owner is so directed by the Ohio EPA, County Health District or County Commissioners.~~