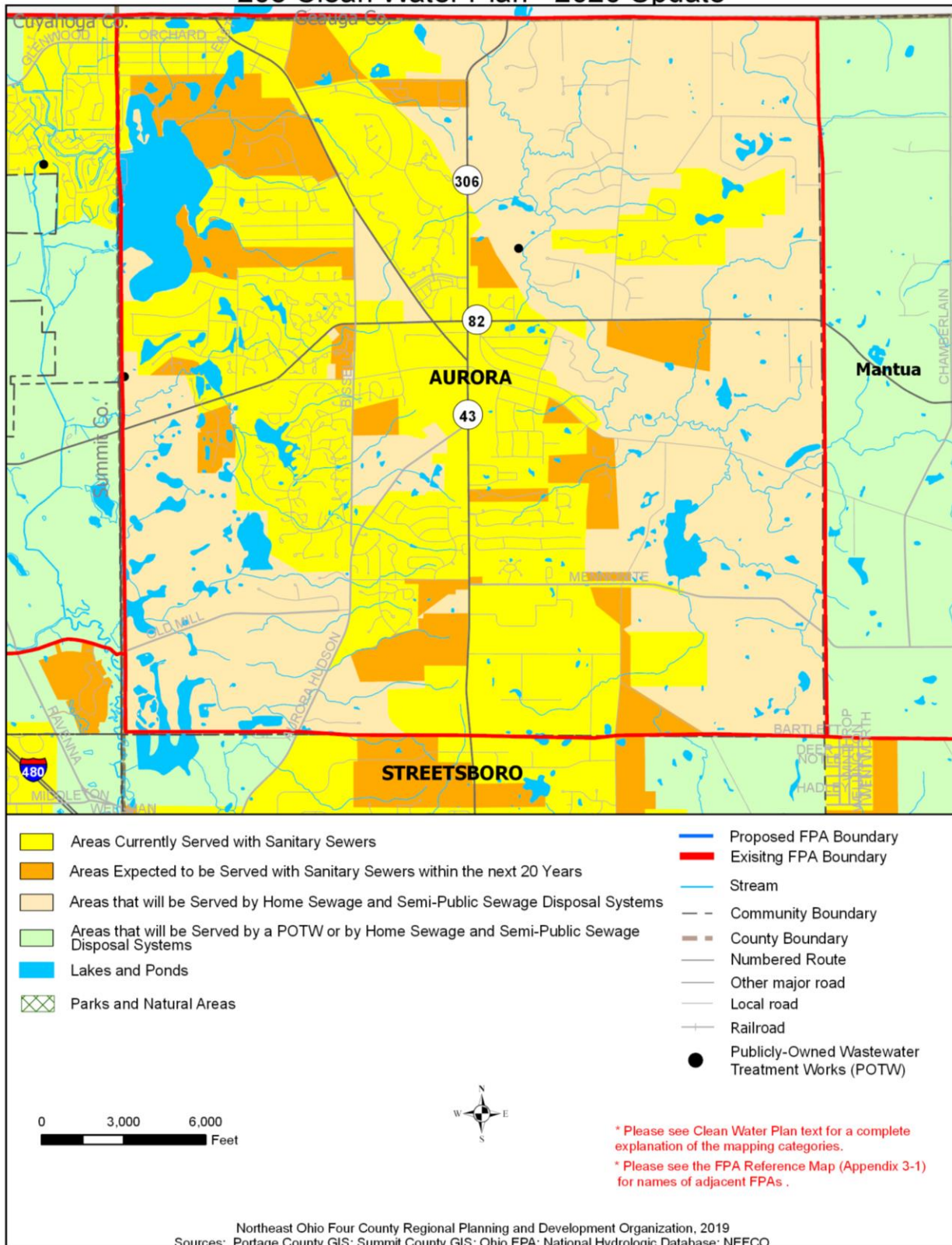


Appendix 3-4
Aurora
Facilities Planning Area

Aurora Facilities Planning Area

208 Clean Water Plan - 2020 Update



Current Plan approved by the NEFCO General Policy Board
8/21/2019

Aurora Facilities Planning Area

I. Existing Situation

A. County/Basin:

Portage/Lake Erie

B. Facilities Planning Area:

Aurora

C. Designated Management Agency (DMA):

I Primary DMA

a) City of Aurora

II. Secondary DMA

a) City of Aurora

D. Publicly-Owned Treatment Works:

a) Aurora Central WWTP, 1.0 MGD

b) Aurora Westerly WWTP, 1.4 MGD

E. Facilities Plan:

a) Western Reserve Consultants, Inc., City of Aurora, Ohio and Mantua Twp., Western Portion Central facilities Plan (Amended), May 1979.

b) Havens and Emerson Lmt., Facilities Plan for the Upper Tinkers Creek Watershed, Three Rivers Watershed District, 1975

F. Area Served:

City of Aurora

G. Receiving Stream:

a) Aurora Branch of the Chagrin

b) Pond Brook Tributary

H. Contact Person/Address/Phone/Fax:

Mr. Harry Stark, MPA, CPMSM

Director of Public Services

City of Aurora

130 S. Chillicothe Road

Aurora, Ohio 44202

Phone: (330) 995-9116

Fax: (330) 562-1306

I. Population Served:

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

a) Aurora Central (Chagrin River)

	<u>1990</u>	<u>1995</u>	<u>2000</u>	<u>2005</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>
201	6,638	7,146	7,768	8,680	----	----	----	----
Approved 208	3,888	4,046	4,668	5,180	----	----	----	----

b) Aurora Westerly

201	17,880	20,244	21,301	23,150	----	----	----	----
Approved 208	7,558	8,051	9,145	11,209	----	----	----	----

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 Prescriptions and Wastewater Planning Options

Original source information provided by the City of Aurora Service Director, August, 1999.

Aurora Jurisdictions:

Areas Currently Sewered Service with Sanitary Sewers (yellow):

These areas are currently served with sanitary sewers except for isolated pockets of Household Sewage Treatment Systems (HSTS). Existing HSTSs must be abandoned when sewers are available within 100 feet of the property on which the building is located. Otherwise, existing HSTSs may be upgraded upon failure. All sewered areas will be connected to a specified existing Publicly-Owned Treatment Facility (POTW).

Areas Expected to be Served with Sanitary Sewers within the next 20 Years

~~Programmed for Sewers Within the Next 20 Years~~ (orange):

All future sewers will be connected to a specified existing POTW. Existing HSTSs must be abandoned when sewers are available within 100 feet of the property on which the building is located. Otherwise, existing HSTSs may be upgraded upon failure. However, new on-site systems may be used but must meet with Portage County Health Department (PCHD) criteria. The areas will be served by sanitary sewers only at property owner's expense.

1. East of the Conrail tracks on the south side of Treat Road. The majority of this area has been rezoned to 'PD' and is a part of the Barrington development. Central sewers will be provided by the developer. The 23 acre parcel directly to the East of the Conrail tracks now contains a development with multi-family residences, four per unit. Sewers were installed and all 21 units and the club house are connected to City sewer.
2. Homestead Development in the northeasterly quadrant preliminarily planned for 142 lots on 256 acres of land. Central sewers will be provided by the developer. The advent of the Homestead development will present an opportunity to extend sewers into Beechwood Allotment (Circlewood Drive), an old development with a history of

problems with existing HSTS's. The Homestead development has been completed and all units are connected to sewer. Circlewood Drive has not been connected at this time.

3. West of Cochran Road in the Lakes of Aurora development. Central sewers will be provided by the developer. This development was completed with sanitary sewers installed and connections for each unit. There are 43 units proposed and currently 1 is under construction.
4. Industrially zoned land on the west side of S.R. 43 opposite Lena Drive. An 85 acre industrial development known as Davis Development is under review by the City. Twelve building sites are proposed. Central sewers will be provided by the developer. No development scheduled at this time.
5. The area bounded by S.R. 43, Sea World Drive, the north corporation line, the Conrail tracts and Treat Road is not currently sewered. The area is presently being used for parking. Sewers can be extended into the area if and when required, but has not yet been extended.
6. With the recent advent of sewers in the Lakes of Aurora development west of Cochran Road, sewers are considered available if and when required for the Aurora Hill Colony development (known locally as Weston Woods). Aurora Hill Colony dates to the 1950s. It is served by existing HSTSs which in many cases have caused problems to the environment. There are many unoccupied lots which do not meet the PCHD's current area requirement for an HSTS. Extension of the central sewer system into the development is possible if the residents are willing to participate in the cost. However, since the lots are generally large, the cost of a central sewer system becomes prohibitive. Sanitary sewers were installed throughout the entire Aurora Hill Colony (known as Weston Woods) in 2008.

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

In the northeasterly, southeasterly and southwesterly areas of the City, new development is expected to be "large lot" (low density) with non-discharging or discharging on-site systems. In all cases, the City relies on the criteria, and approval, of the PCHD for on-site sewage systems. On-site systems would expect to be upgraded upon failure. With the exception of the proposed Homestead Development with possible extension into Beechwood Allotment, and the area on the south side of Treat Road, west of S. R. 306, there is no planning for sanitary sewer service to these areas.

The northeasterly area of the existing FPA is reaching full development. With the exception of the proposed Homestead Development and the Hartman parcel (west side of Townline Road, north of S.R. 82), the remaining parcels are either small or present severe topographical or drainage problems for development. Existing development is served with on-site systems.

The southeasterly area, with the exception of Stonewood Estates (corner of Page and Bartlett Roads), is undeveloped. The area contains large parcels of land which comprise the City's Sunny Lake Park and the Cleveland Bird Club, and lie between the other developable parcels and an acceptable point of connection to the central area interceptor. The Park and Club areas are reserved for recreational use. Also, the City has recently purchased four large parcels in the vicinity which will also be reserved for recreational use. Other like purchases are contemplated by the City. Extension of "gravity" sewer service to the undeveloped parcels is physically possible but is likely to be economically prohibitive due to the necessity of routing the sewers around, or through, the "non-contributing" Park and Club areas.

Via referendum this November, the City is pursuing a number of "use" changes to its zoning code. One such change involves an option to a developer, in areas of large lot zoning, to implement "open-space", "conservation" development. The developer will have the option to cluster the allowable building units in return for the creation of large "open-space" areas. Clustered housing development will necessitate the extension of sewers into the development or, new treatment technologies.

The southwesterly area (south of S. R. 82, north of Tinkers Creek State Park) is comprised of a number of large parcels, seemingly "ripe" for development. In the past, the City has received inquiries regarding potential development of these parcels. Generally however, the area is a flat, lowland which naturally retains water and is spotted with wetlands. Given its proximity to the City's Westerly WWTP site, the area would seem to lend itself to open-space, clustered development.

Potential Additional Sanitary Sewer System Service Area:

A "Potential Additional Sanitary Sewer Service Area" has been added to the map in the east-central area of the City, contiguous to S.R. 82 and East Pioneer Trail. Sewer service to this area is not planned at this time. However, to service the area, the existing central area interceptor would have to be extended easterly about 2,500 feet, north of and along an existing watercourse north of East Pioneer Trail. The end of this extension presents the confluence of three local watercourses (from the north, east and southwest) along which local trunk sewers would be routed. Initial design of the existing central area interceptor, downstream of the point of connection (thru the Aurora Country Club), allowed for the proposed extension to the east. This extension to the east, along with the local trunk sewers, would encourage new "open-space" development in the additional service area. The extension would also provide future service for Thornhill Estates and Greenview Estates, existing developments with on- site systems, as well as service for the Hartman parcel on Townline Road, aforementioned.