

AMENDMENT TO THE

**REGIONAL WATER QUALITY
MANAGEMENT PLAN**

TOWN OF CALEDONIA

AS ADOPTED BY THE

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

DECEMBER 2005

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SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

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SUBJECT: Certification of Amendment to the Adopted Regional Water Quality Management Plan (Racine and Environs Sanitary Sewer Service Area)

TO: The Legislative Bodies of Concerned Local Units of Government within the Southeastern Wisconsin Region, namely: the County of Racine, the City of Racine, and the Town of Caledonia

This is to certify that at the meeting of the Southeastern Wisconsin Regional Planning Commission, held at the Milwaukee Public Museum, Milwaukee, Wisconsin, on the 7th day of December 2005, the Commission did by unanimous vote of all Commissioners present, being 14 ayes and 0 nays, and by appropriate Resolution, a copy of which is made a part hereof and incorporated by reference to the same force and effect as if it had been specifically set forth herein in detail, adopt an amendment to the regional water quality management plan, which plan was originally adopted by the Commission on the 12th day of July 1979, as part of the master plan for the physical development of the Region. Said amendment to the regional water quality management plan pertains to the revised Racine and Environs sanitary sewer service area and consists of the documents attached hereto and made a part hereof. Such action taken by the Commission is recorded on, and is a part of, said plan, and the plan as amended is hereby transmitted to the constituent local units of government for consideration, adoption, and implementation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and cause the Seal of the Southeastern Wisconsin Regional Planning Commission to be hereto affixed. Dated at the City of Pewaukee, Wisconsin, this 8th day of December 2005.

Thomas H. Buestrin, Chairman
Southeastern Wisconsin
Regional Planning Commission

ATTEST:

Philip C. Evenson, Deputy Secretary

RESOLUTION NO. 2005-19

RESOLUTION OF THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION AMENDING THE ADOPTED REGIONAL WATER QUALITY MANAGEMENT PLAN, THAT PLAN BEING A PART OF THE MASTER PLAN FOR THE PHYSICAL DEVELOPMENT OF THE REGION CONSISTING OF THE COUNTIES OF KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH, WASHINGTON, AND WAUKESHA IN THE STATE OF WISCONSIN (RACINE AND ENVIRONS SANITARY SEWER SERVICE AREA)

WHEREAS, pursuant to Section 66.0309(10) of the *Wisconsin Statutes*, the Southeastern Wisconsin Regional Planning Commission, at a meeting held on the 12th day of July 1979, duly adopted a regional water quality management plan as documented in the three-volume SEWRPC Planning Report No. 30, *A Regional Water Quality Management Plan for Southeastern Wisconsin: 2000*; and

WHEREAS, at a meeting held on the 18th day of June 2003, the Commission duly adopted an amendment to the regional water quality management plan refining and detailing the Racine and environs sanitary sewer service area as documented in SEWRPC Community Assistance Planning Report No. 147 (2nd Edition), *Sanitary Sewer Service Area for the City of Racine and Environs, Racine and Kenosha Counties, Wisconsin*, dated June 2003; and

WHEREAS, by letter dated October 4, 2005, the City of Racine and the Town of Caledonia requested that the Commission amend the Racine and environs sanitary sewer service area to include certain lands located outside of the currently adopted sewer service area; and

WHEREAS, the proposed amendment to the regional water quality management plan is documented in a Commission staff memorandum entitled, "Response to Request by the Racine Wastewater Utility and the Town of Caledonia to Amend the City of Racine and Environs Sanitary Sewer Service Area," attached hereto and made a part hereof; and

WHEREAS, the requested change to the regional water quality management plan, as documented in the aforementioned staff memorandum, was the subject of a public hearing held jointly by the Racine Wastewater Utility and the Regional Planning Commission on October 25, 2005; and

WHEREAS, Section 66.0309(9) of the *Wisconsin Statutes* authorizes and empowers the Regional Planning Commission, as the work of making the whole master plan progresses, to amend, extend, or add to the master plan or carry any part or subject thereof into greater detail;

NOW, THEREFORE, BE IT HEREBY RESOLVED:

FIRST: That the regional water quality management plan for the Southeastern Wisconsin Region, being a part of the master plan for the physical development of the Region and comprised of SEWRPC Planning Report No. 30, Volumes One, Two, and Three, which was adopted by the Commission as a part of the master plan on the 12th day of July 1979, and which was amended on the 18th day of June 2003 to include the refined Racine and environs sewer service area, as set forth in SEWRPC Community Assistance Planning Report No. 147 (2nd Edition), be and the same hereby is amended in the manner identified on Map 1 of the aforementioned SEWRPC staff memorandum.

SECOND: That the Executive Director is authorized to submit findings to the Wisconsin Department of Natural Resources and the Wisconsin Department of Commerce that public and private sanitary sewer extensions necessary to serve the anticipated development on the lands concerned are in conformance with, and would serve to implement, the adopted regional water quality management plan as herein amended.

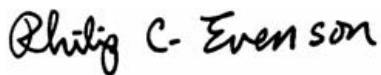
THIRD: That a true, correct, and exact copy of this resolution, together with the aforementioned SEWRPC staff memorandum, shall be forthwith distributed to each of the local legislative bodies of the local governmental units within the Region entitled thereto and to such other bodies, agencies, or individuals as the law may require or as the Commission, its Executive Committee, or its Executive Director, at their discretion, shall determine and direct.

The foregoing resolution, upon motion duly made and seconded, was regularly adopted at the meeting of the Southeastern Wisconsin Regional Planning Commission held on the 7th day of December 2005, the vote being: Ayes 14; Nays 0.

A handwritten signature in black ink, appearing to read "Thomas H. Buestrin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Thomas H. Buestrin, Chairman

ATTEST:

A handwritten signature in black ink, appearing to read "Philip C. Evenson". The signature is cursive and somewhat stylized.

Philip C. Evenson, Deputy Secretary

SEWRPC STAFF MEMORANDUM

RESPONSE TO REQUEST BY THE RACINE WASTEWATER UTILITY AND THE TOWN OF CALEDONIA TO AMEND THE CITY OF RACINE AND ENVIRONS SANITARY SEWER SERVICE AREA

INTRODUCTION AND BACKGROUND

By letter dated October 4, 2005, the Racine Wastewater Utility, in concurrence with a request from the Town of Caledonia, requested that the Southeastern Wisconsin Regional Planning Commission amend the Racine and environs sanitary sewer service area tributary to the City of Racine sewage treatment facility. That area is currently documented in SEWRPC Community Assistance Planning Report No. 147 (2nd Edition), *Sanitary Sewer Service Area for the City of Racine and Environs, Racine and Kenosha Counties, Wisconsin*, dated June 2003. The basic purpose of this amendment would be to include within the planned Racine and environs sewer service area certain lands located immediately adjacent to, but outside, the currently adopted sewer service area.

AREA DESCRIPTION

The areas proposed to be added to the Racine and environs sanitary sewer service area are shown on Map 1, and encompass a total of 345 acres located in the Town of Caledonia. One area, covering 247 acres, is located north and south of CTH K in U.S. Public Land Survey Section 32, Township 4 North, Range 22 East; the westerly boundary of this area is based upon drainage considerations. The other area, covering 98 acres, is located about one-quarter mile northeast of the first area, and extends east and west of CTH H in Sections 28 and 29. The subject areas contain 15 acres of existing urban land—primarily road rights-of-way—and 9 acres of small wetlands. The remainder of 321 acres is comprised of agricultural land, with no other environmentally significant lands present. Of that remainder, 298 acres are anticipated to be developed for residential use and 23 acres are anticipated to be developed for non-residential use. The lands to be developed for residential use would accommodate about 600 housing units with an estimated population of about 1,550 persons.

A more detailed delineation of the amended sewer service area and of the environmentally significant lands within is shown on the aerial photographs reproduced as Maps 2 and 3.

RELATIONSHIP OF THE PROPOSED CHANGE TO THE EXISTING SANITARY SEWER SERVICE AREA

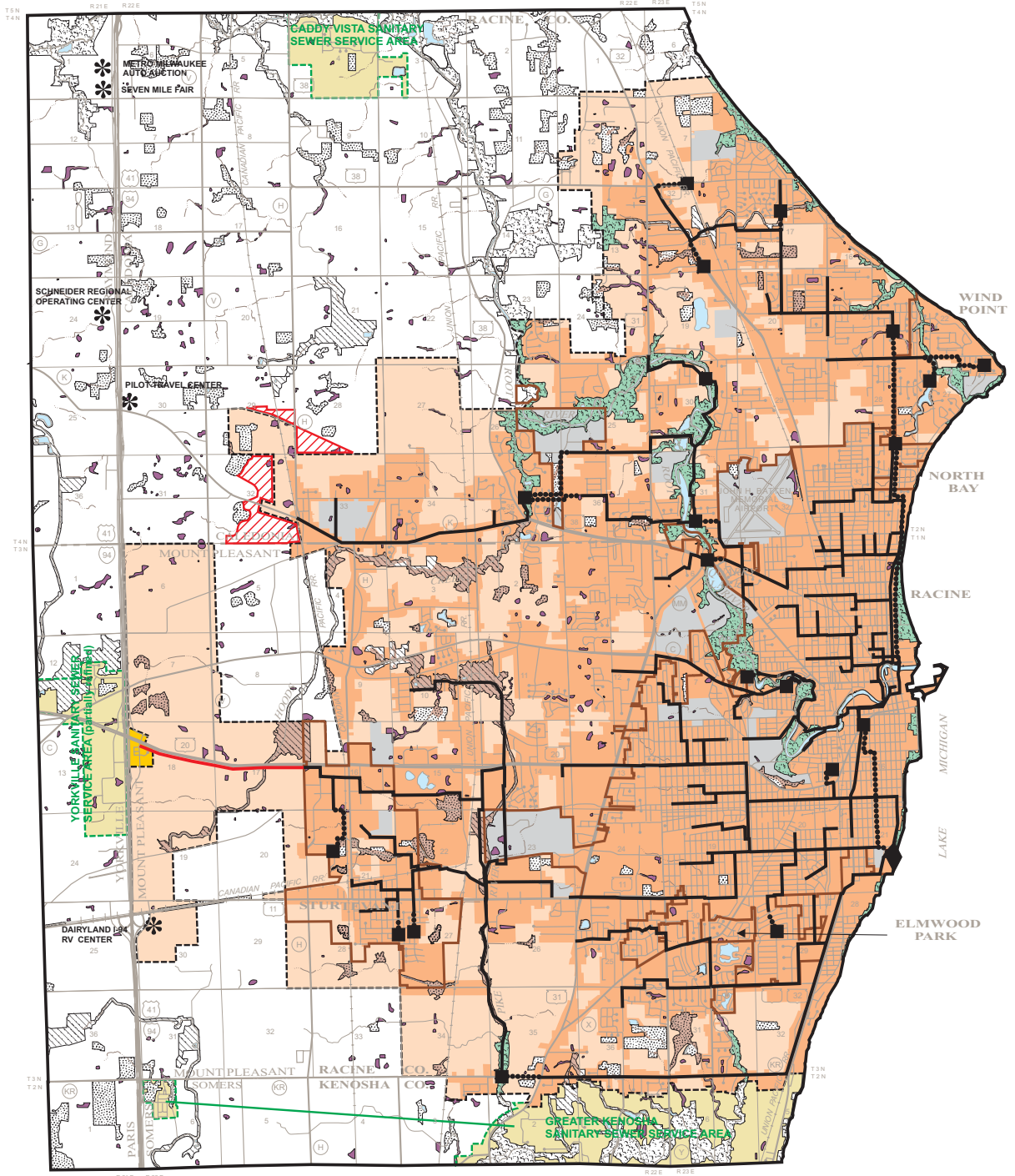
The proposed addition of 345 acres to the Racine and environs sewer service area represents an increase in the planned sewer service area of less than one percent. Including the potential population of the area proposed to be added to the sewer service area at this time, the buildout population of the sewer service area—that is, the estimated population which could be accommodated upon full development of the sewer service area—would remain within the year 2020 population projection range for the Racine area embodied in the regional land use plan.

WATER QUALITY IMPACTS

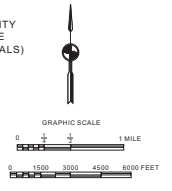
Under the adopted regional water quality management plan and the Racine and environs sanitary sewer service plan presented herein, it is envisioned that all new urban development within the planned urban service area would receive sanitary sewer service. Assuming that any applicable Federal, State, and local permits are obtained and that proper site development and construction practices are employed, there should be no significant adverse water quality impacts attributable to the development of the planned sanitary sewer service area.

Map 1

PROPOSED AMENDMENT TO THE CITY OF RACINE AND ENVIRONS SANITARY SEWER SERVICE AREA



- PRIMARY ENVIRONMENTAL CORRIDOR
 - SECONDARY ENVIRONMENTAL CORRIDOR
 - ISOLATED NATURAL RESOURCE AREA
 - WETLANDS AND SURFACE WATER AREAS LESS THAN FIVE ACRES IN SIZE
 - AREAS PROPOSED TO BE ADDED TO THE RACINE AND ENVIRONS SANITARY SEWER SERVICE AREA
- RESTRICTIONS ON SEWERED DEVELOPMENT**
- PRIMARY ENVIRONMENTAL CORRIDORS WITHIN THE PLANNED SANITARY SEWER SERVICE AREA: THE EXTENSION OF SEWERS TO SERVE NEW DEVELOPMENT IS CONFINED TO LIMITED RECREATIONAL AND INSTITUTIONAL USES AND RURAL-DENSITY RESIDENTIAL DEVELOPMENT IN AREAS OTHER THAN WETLANDS, FLOODLANDS, SHORELANDS, AND STEEP SLOPES.
 - PORTIONS OF SECONDARY ENVIRONMENTAL CORRIDORS AND ISOLATED NATURAL RESOURCE AREAS WITHIN THE PLANNED SANITARY SEWER SERVICE AREA WHICH ARE COMPRISED OF WETLANDS, FLOODLANDS, SHORELANDS, AND STEEP SLOPES: THE EXTENSION OF SEWERS TO SERVE NEW DEVELOPMENT IN THESE AREAS IS NOT PERMITTED.
 - PLANNED SANITARY SEWER SERVICE AREA BOUNDARY
- EXISTING AREA SERVED BY SANITARY SEWERS TRIBUTARY TO THE CITY OF RACINE SEWAGE TREATMENT PLANT: 2000
 - RACINE AND ENVIRONS PLANNED SANITARY SEWER SERVICE AREA: 2020
 - AREA TO BE DETACHED FROM THE TOWN OF YORKVILLE SEWER UTILITY DISTRICT NO. 1 SEWER SERVICE AREA AND ATTACHED TO THE RACINE SEWER SERVICE AREA (TIMING TO BE DETERMINED BY LOCAL OFFICIALS)
 - AIRPORTS, LARGE PARK AND RECREATION SITES, AND SIMILAR USES WITHIN THE SEWER SERVICE AREA
 - LOCATIONS WITH HOLDING TANK WASTES ACCEPTED BY THE CITY OF RACINE SEWAGE TREATMENT FACILITY (ALSO INCLUDES NORTH CAPE ELEMENTARY SCHOOL IN THE TOWN OF RAYMOND—NOT SHOWN)
 - EXISTING PUBLIC SEWAGE TREATMENT FACILITY
 - EXISTING TRUNK SEWER
 - EXISTING FORCE MAIN
 - EXISTING PUMPING STATION
 - PROPOSED TRUNK SEWER



Source: SEWRPC.

COST EFFECTIVENESS ANALYSIS

The proposed addition to the Racine and environs sanitary sewer service area is situated immediately adjacent to the currently approved sewer service area tributary to the City of Racine sewage treatment plant. The nearest other public sanitary sewer system, that operated by the Town of Yorkville Sewer Utility District No. 1, is located two miles from the subject area. No further analysis is necessary to conclude that the subject area would be most cost effectively served through connection to Town of Caledonia Water and Sewer Utility District No. 1 sewers tributary to the City of Racine sewage treatment plant.

SEWAGE TREATMENT PLANT CAPACITY ANALYSIS

The City of Racine sewage treatment plant has a capacity to treat 36 million gallons per day (mgd) of wastewater on an average daily basis. The current loading to the plant is about 26 mgd on an average annual basis. The anticipated sewage flow to be generated in the subject area proposed to be added to the sewer service area is estimated to be about 0.3 mgd on an average annual basis. Thus, the treatment plant has capacity to treat sewage flows from the areas proposed to be added to the sewer service area.

In 1998, the Racine Wastewater Utility prepared a facility plan for upgrading and expansion of the sewage treatment plant. The planned expansion, which was largely completed in 2005, increased the treatment plant capacity to 36 mgd and provided additional facilities to handle peak wet-weather sewage flows. Other improvements to the sewerage system are in progress or are planned to be constructed later.

If the vacant developable lands within the Racine and environs sewer service area were fully developed in accordance with local plans, flows to the City of Racine sewage treatment facility would approximate 35 to 40 mgd on an average annual basis, with the total flows being somewhat dependent upon the sewage flows generated by new commercial and industrial development. **Depending upon the level and density of growth that will actually occur upon full development of the planned sewer service area, the sewage treatment plant is likely to have adequate capacity to serve the sewer service area over the entire planning period.**

PUBLIC REACTION TO THE PLAN AMENDMENT

A public hearing was held on October 25, 2005 at the Racine City Hall Annex to receive public comment on, and reaction to, the proposed plan amendment. The hearing was sponsored by the Racine Wastewater Utility Commission and the Regional Planning Commission. A summary of the plan amendment was presented prior to receiving public comment, including a description of the lands proposed to be added to the sewer service area and any environmentally significant land located within.

A review of the hearing record indicates that no substantive concerns were raised at the hearing. Accordingly, no changes were made to the proposed plan amendment as presented at the public hearing.

LOCAL GOVERNMENT SUPPORT FOR THE PLAN AMENDMENT

The Racine Wastewater Utility Commission adopted the plan amendment on October 25, 2005.

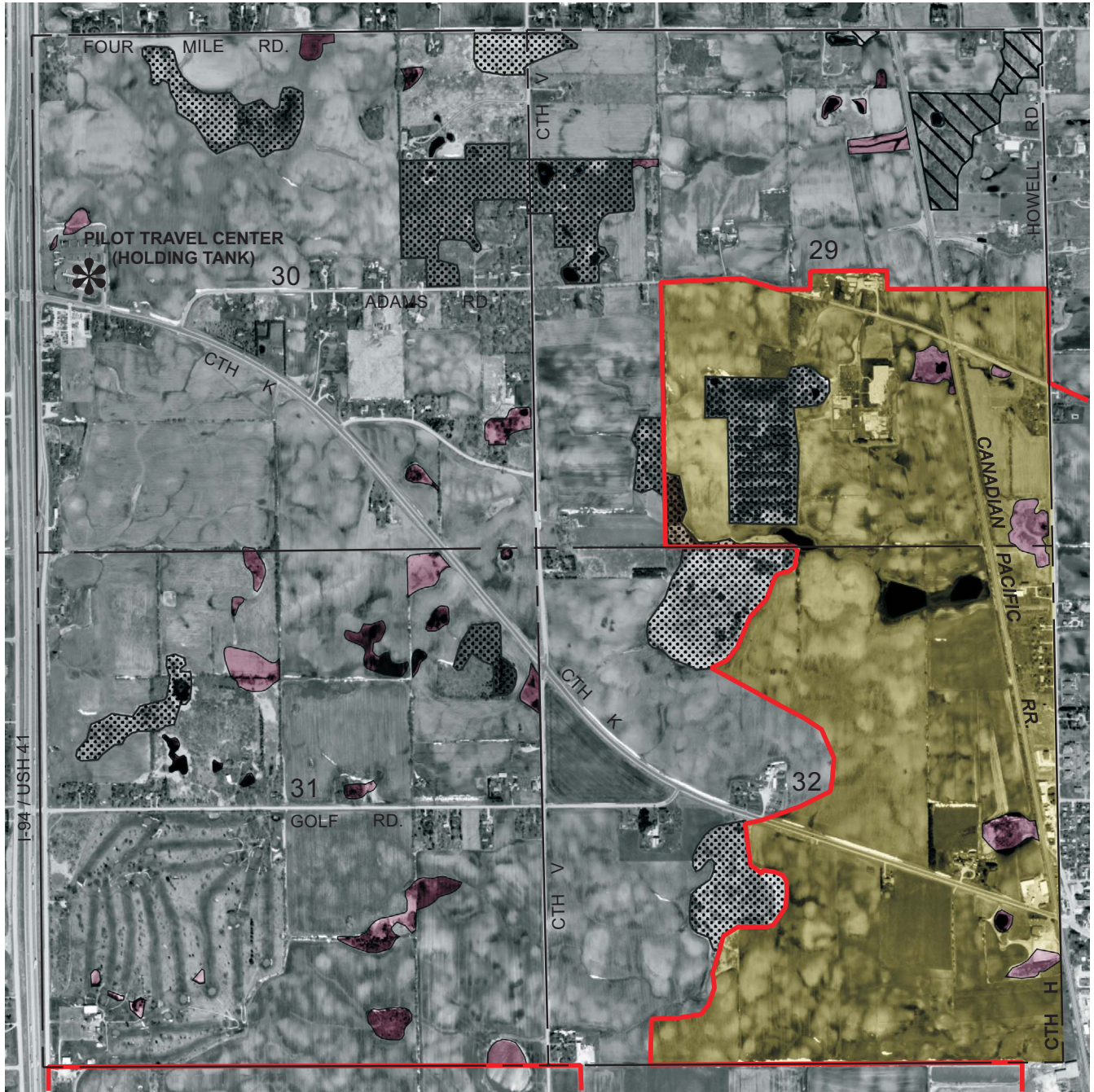
CONCLUDING RECOMMENDATION

Based on the foregoing, it is recommended that the Southeastern Wisconsin Regional Planning Commission formally amend the sanitary sewer service area for the City of Racine and Environs as documented in SEWRPC Community Assistance Planning Report No. 147 (2nd Edition) in the manner identified on Map 1.





Map 2



ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE CITY OF RACINE AND ENVIRONS

U. S. Public Land Survey Sections 29, 30, 31, and 32
Township 4 North, Range 22 East




Photography Date: April 2000

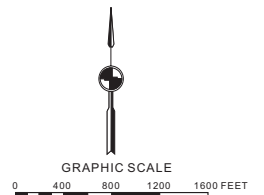
-  SECONDARY ENVIRONMENTAL CORRIDOR
-  ISOLATED NATURAL RESOURCE AREA
-  WETLANDS AND SURFACE WATER AREAS LESS THAN FIVE ACRES IN SIZE
-  SURFACE WATER WITHIN ENVIRONMENTAL CORRIDORS AND ISOLATED NATURAL RESOURCE AREAS

-  GROSS SANITARY SEWER SERVICE AREA BOUNDARY
-  PLANNED SANITARY SEWER SERVICE AREA

RESTRICTIONS ON SEWERED DEVELOPMENT

-  PORTIONS OF SECONDARY ENVIRONMENTAL CORRIDORS AND ISOLATED NATURAL RESOURCE AREAS WITHIN THE PLANNED SANITARY SEWER SERVICE AREA WHICH ARE COMPRISED OF WETLANDS, FLOODLANDS, SHORELANDS, AND STEEP SLOPES; THE EXTENSION OF SEWERS TO SERVE NEW DEVELOPMENT IN THESE AREAS IS NOT PERMITTED.

NOTE: This map replaces Map 9-13, page 36, of SEWRPC Community Assistance Planning Report No. 147 (2nd Edition), *Sanitary Sewer Service Area for the City of Racine and Environs, Racine and Kenosha Counties, Wisconsin*, June 2003.

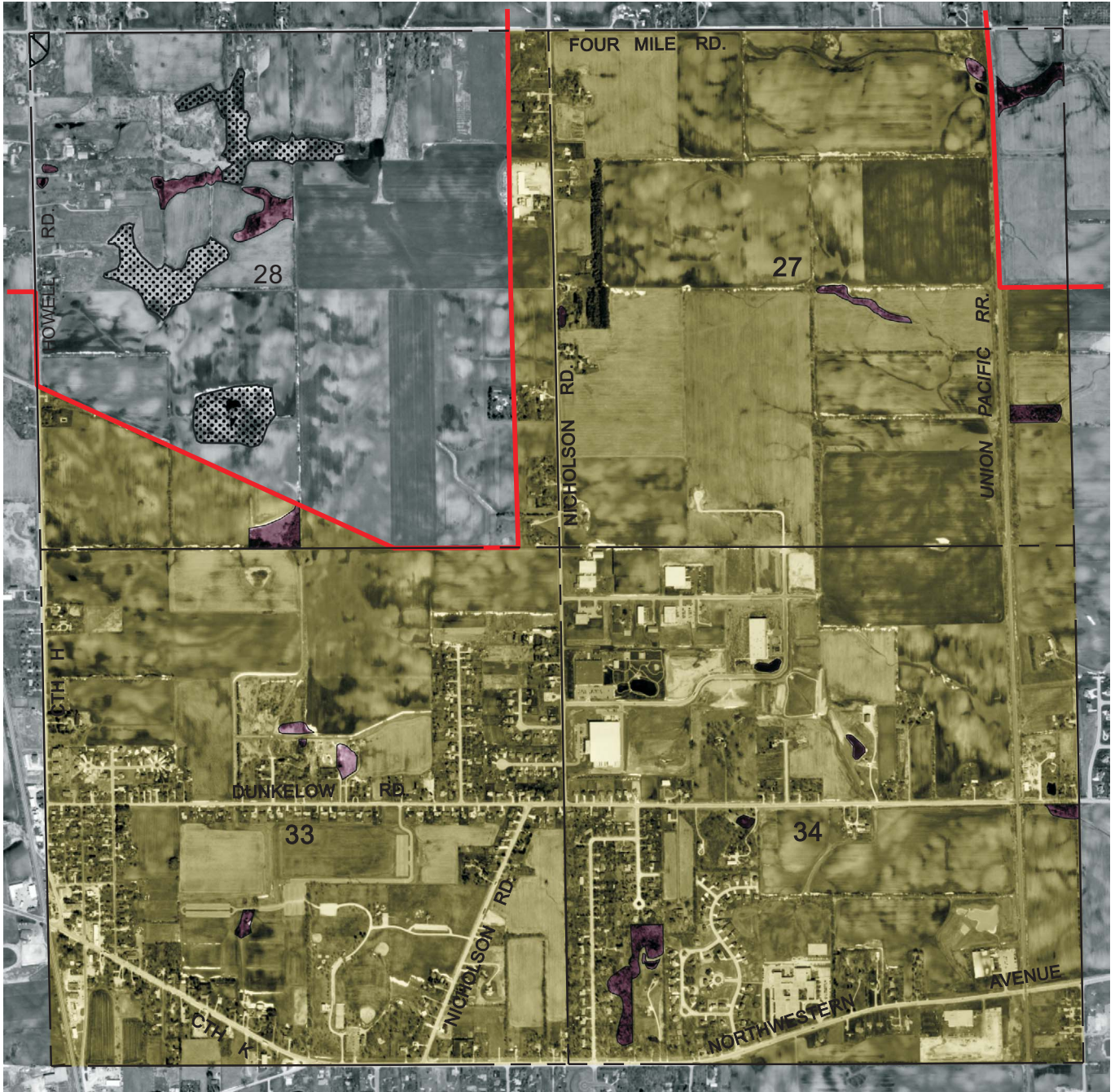


Source: SEWRPC.






Map 3

ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE CITY OF RACINE AND ENVIRONS

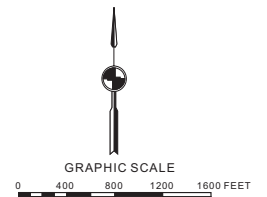
U. S. Public Land Survey Sections 27, 28, 33, and 34
Township 4 North, Range 22 East



Photography Date: April 2000

-  SECONDARY ENVIRONMENTAL CORRIDOR
-  ISOLATED NATURAL RESOURCE AREA
-  WETLANDS AND SURFACE WATER AREAS LESS THAN FIVE ACRES IN SIZE
-  GROSS SANITARY SEWER SERVICE AREA BOUNDARY
-  PLANNED SANITARY SEWER SERVICE AREA

NOTE: This map replaces Map 9-14, page 37, of SEWRPC Community Assistance Planning Report No. 147 (2nd Edition), *Sanitary Sewer Service Area for the City of Racine and Environs, Racine and Kenosha Counties, Wisconsin*, June 2003.



Source: SEWRPC.