

A topographic map of the Eagle Lake region in Wisconsin. A vertical blue shaded band runs through the center of the map, highlighting a specific area. The map shows various geographical features, including Eagle Lake, several towns (Dover, Rosewood, Brighton, Yorkville), and a waterfowl refuge. A grid of latitude and longitude lines is overlaid on the map.

AMENDMENT TO THE

REGIONAL WATER QUALITY

MANAGEMENT PLAN

EAGLE LAKE

SEWER UTILITY DISTRICT

AS ADOPTED BY THE

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

JUNE 1998

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Leland H. Kreblin, RLS Chief Planning Illustrator
Elizabeth A. Larsen Administrative Officer
Donald R. Martinson, PE Chief Transportation Planner
John G. McDougall Geographic Information Systems Manager
John R. Meland Chief Economic Development Planner
Donald M. Reed Chief Biologist
Bruce P. Rubin Chief Land Use Planner

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

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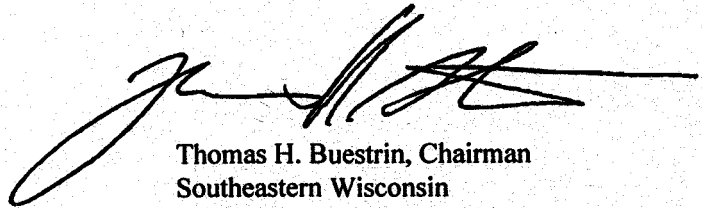
KENOSHA
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SUBJECT: Certification of Amendment to the Adopted Regional Water Quality Management Plan (Eagle Lake Sanitary Sewer Service Area)

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

This is to certify that at the meeting of the Southeastern Wisconsin Regional Planning Commission, held at the Washington County Courthouse, West Bend, Wisconsin, on the 17th day of June 1998, the Commission did by unanimous vote by all Commissioners present, being 15 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 sanitary sewer service area for the Eagle Lake Sewer Utility District 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 Waukesha, Wisconsin, this 18th day of June 1998.



Thomas H. Buestrin, Chairman
Southeastern Wisconsin
Regional Planning Commission

ATTEST:

Philip C. Evenson

Philip C. Evenson, Deputy Secretary

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RESOLUTION NO. 98-6

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 (EAGLE LAKE SANITARY SEWER SERVICE AREA)

WHEREAS, pursuant to Section 66.945(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 January 1993, the Commission duly adopted an amendment to the regional water quality management plan refining and detailing the Eagle Lake sanitary sewer service area as documented in SEWRPC Community Assistance Planning Report No. 206, Sanitary Sewer Service Area for the Eagle Lake Sewer Utility District, Racine County, Wisconsin, December 1993; and

WHEREAS, by letter dated February 17, 1998, the Eagle Lake Sewer Utility District requested that the Commission amend the Eagle Lake 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 Eagle Lake Sewer Utility District to Amend the Eagle Lake 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 aforereferenced staff memorandum, was the subject of a public hearing held jointly by the Eagle Lake Sewer Utility District and the Regional Planning Commission on May 5, 1998; and

WHEREAS, Section 66.945(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;

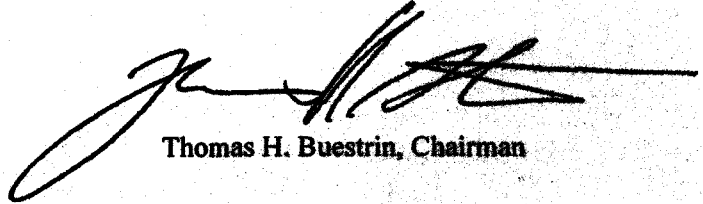
NOW, THEREFORE, BE IT HEREBY RESOLVED:

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 January 1993 as set forth in SEWRPC Community Assistance Planning Report No. 206, be and the same hereby is amended in the manner identified on Map 1 of the aforereferenced 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 aforereferenced 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 17th day of June 1998, the vote being: Ayes 15; Nays 0.



Thomas H. Buestrin, Chairman

ATTEST:

Philip C. Evenson

Philip C. Evenson, Deputy Secretary

SEWRPC STAFF MEMORANDUM

RESPONSE TO REQUEST BY THE EAGLE LAKE SEWER UTILITY DISTRICT TO AMEND THE EAGLE LAKE SANITARY SEWER SERVICE AREA

INTRODUCTION AND BACKGROUND

By letter dated February 17, 1998, the Eagle Lake Sewer Utility District requested that the Southeastern Wisconsin Regional Planning Commission amend the Eagle Lake sanitary sewer service area as that area is currently documented in SEWRPC Community Assistance Planning Report No. 206, Sanitary Sewer Service Area for the Eagle Lake Sewer Utility District, Racine County, Wisconsin, dated December 1993. The basic purpose of the amendment would be to include within the planned Eagle Lake sewer service area lands anticipated to be developed for residential use and located immediately adjacent to, but outside of, the currently adopted sewer service area. The Regional Planning Commission recognizes that, like other long-range plans, sanitary sewer service area plans should be periodically reviewed to assure that the plans continue to properly reflect regional and local development objectives.

AREA DESCRIPTION

As shown on Map 1, the area proposed to be added to the sanitary sewer service area for the Eagle Lake Sewer Utility District encompasses approximately 67 acres, and is located in U.S. Public Land Survey Sections 26 and 35, Township 3 North, Range 20 East, Town of Dover, Racine County, Wisconsin. This area represents less than 5 percent of the total area of the currently adopted Eagle Lake sanitary sewer service area. All of the subject area is currently devoted to agricultural use. None of the subject area is encompassed within primary or secondary environmental corridor lands, isolated natural resource areas, or floodlands. However, approximately 4 acres, or about 6 percent of the subject area, is comprised of small wetlands less than 5 acres in size. It is anticipated that the subject area would be developed for residential purposes. A detailed subdivision layout has been prepared for the subject area indicating that 51 single-family residential lots would be created. No homes are proposed to be constructed within areas encompassed by wetlands. Fifty one single-family homes would support a population of about 140 persons.

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

The revised sanitary sewer service area for the Eagle Lake Sewer Utility District, including the subject additional lands would encompass about 2.3 square miles¹ and would include 0.4 square mile of primary environmental corridor; less than 0.1 square mile of secondary environmental corridor; and about 0.1 square mile of isolated natural resource areas. Thus, about 0.5 square miles, or about 22 percent of the revised sewer service area, would be comprised of environmentally significant areas. Year 2020 resident population levels envisioned for the Eagle Lake Sewer Utility District sewer service area would range from about 1,610 persons under the Commission's intermediate-growth centralized land use plan to about 3,010 persons under the Commission's high-growth decentralized land use plan. Based upon current community plans and zoning for the Town of Dover, the revised sewer service area, including the subject additional lands, would accommodate a resident population of about 2,420 persons. This population level is within the range of population levels envisioned for the area under Commission alternative land use plans.

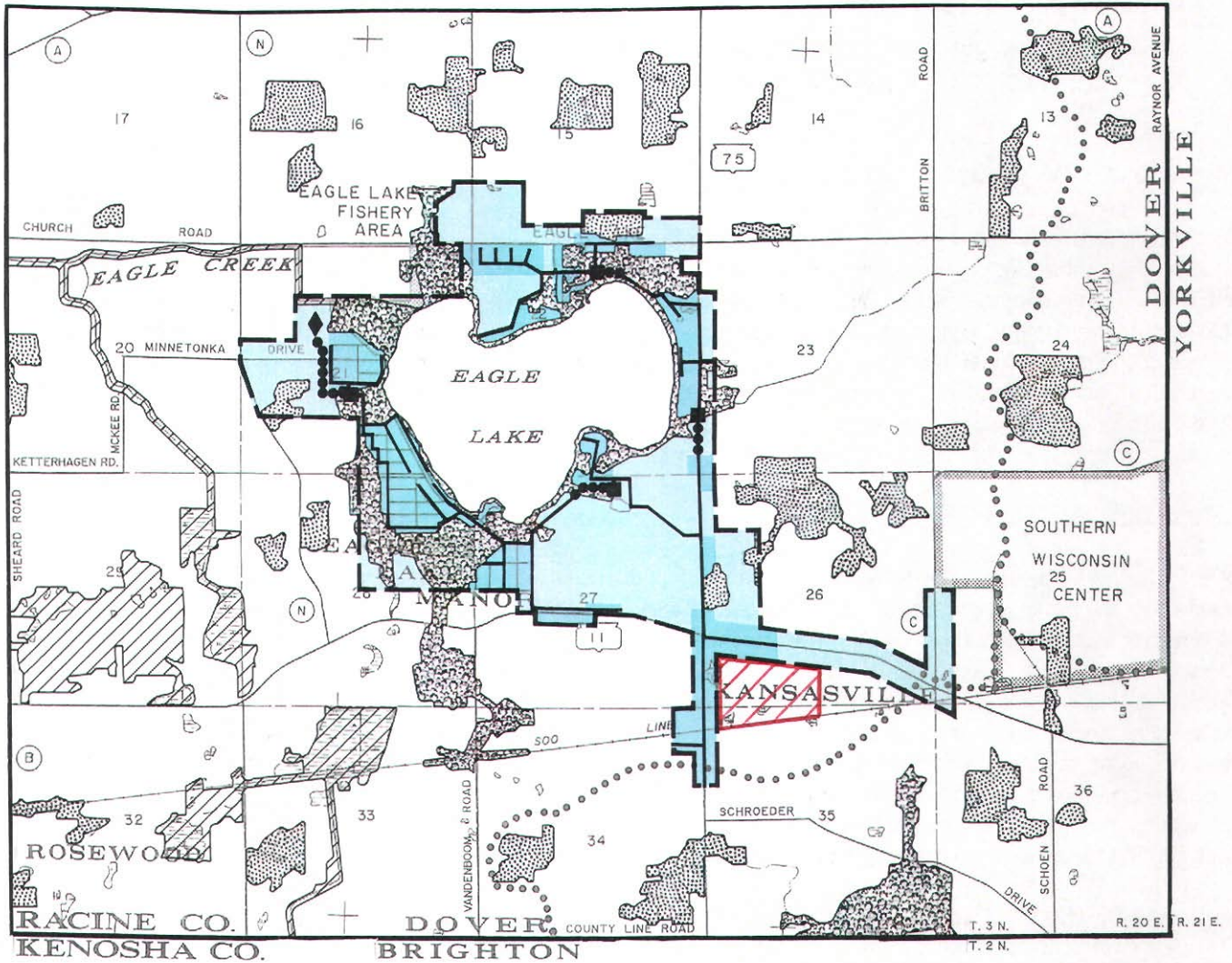
WATER QUALITY IMPACTS

Under the adopted regional water quality management plan and the refined sanitary sewer service area plan herein set forth, it is envisioned that all urban lands 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.












¹Does not include 540 acres of surface water associated with Eagle Lake.

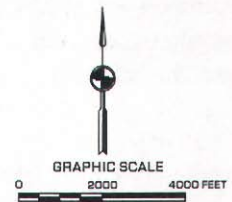
Map 1

RECOMMENDED REVISION TO THE SANITARY SEWER SERVICE AREA FOR THE EAGLE LAKE SEWER UTILITY DISTRICT



LEGEND

- | | | | |
|---|---|---|--|
|  | PRIMARY ENVIRONMENTAL CORRIDOR |  | GROSS SANITARY SEWER SERVICE AREA BOUNDARY |
|  | SECONDARY ENVIRONMENTAL CORRIDOR |  | EXISTING PUBLIC SEWAGE TREATMENT FACILITY |
|  | ISOLATED NATURAL RESOURCE AREA |  | EXISTING TRUNK SEWER |
|  | NET SANITARY SEWER SERVICE AREA (EXISTING) |  | EXISTING PUMPING STATION |
|  | NET SANITARY SEWER SERVICE AREA (2010) |  | EXISTING FORCE MAIN |
|  | LANDS TO BE ADDED TO THE EAGLE LAKE SANITARY SEWER SERVICE AREA | | |



Source: SEWRPC.

COST-EFFECTIVENESS ANALYSIS

The lands in question lie immediately adjacent to the currently approved Eagle Lake sanitary sewer service area. The nearest other public sanitary sewer system, the Village of Union Grove system, is located approximately 1.5 miles east of the subject area. Consequently, no further analyses were deemed necessary to conclude that the most cost-effective means of providing the subject area with public sanitary sewer service would be through sewers tributary to the Eagle Lake Sewer Utility District sewerage system.

SEWAGE TREATMENT PLANT CAPACITY IMPACT ANALYSIS

The Eagle Lake Sewer Utility District sewage treatment plant has a capacity of 0.40 million gallons per day (mgd) of sewage on an average annual flow basis and about 1.0 mgd on a peak hourly basis. The average annual flow rate is about 0.19 mgd maximum. Monthly average flows of about 0.34 mgd and maximum daily flows of about 1.0 mgd have been experienced. The planned increase in sewered population from about 1,200 year-round residents and 400 seasonal residents in 1990 to 2,400 year-round residents and 400 seasonal residents by the year 2020 is estimated to result in a flow rate of about 0.35 mgd on an average annual basis, and from about 0.55 to 0.60 mgd on a maximum monthly average basis. Furthermore, an hourly flow rate in excess of 1.0 mgd is expected. Of these future sewage flows, the anticipated flow to be generated in the area proposed to be added to the Eagle Lake sanitary sewer service area is expected to be about 0.02 mgd on an average annual basis and 0.03 mgd on a maximum monthly average basis. Because the projected maximum monthly average and peak hourly flows exceed the existing plant design capacity, it will be necessary to provide for expansion and improvement of the plant before the end of the planning period, with timing of the expansion and improvement dependent upon the actual rate of urban growth experienced within the planned sewer service area. Continued review of the District plant operations and of the State-required compliance maintenance report for the plant should provide a sound basis for determining timing of the initiation of a facility planning program to explore plant expansion and improvement alternatives, and to recommend the best means of providing the needed expansion and improvement.

PUBLIC REACTION TO THE PLAN AMENDMENT

A public hearing was held on May 5, 1998, at the Dover Town Hall to receive public comment on, and reaction to, the proposed plan amendment. The hearing was sponsored by the Eagle Lake Sewer Utility District of the Town of Dover and the Regional Planning Commission.

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 Eagle Lake Sewer Utility District of the Town of Dover adopted the plan amendment on May 28, 1998.

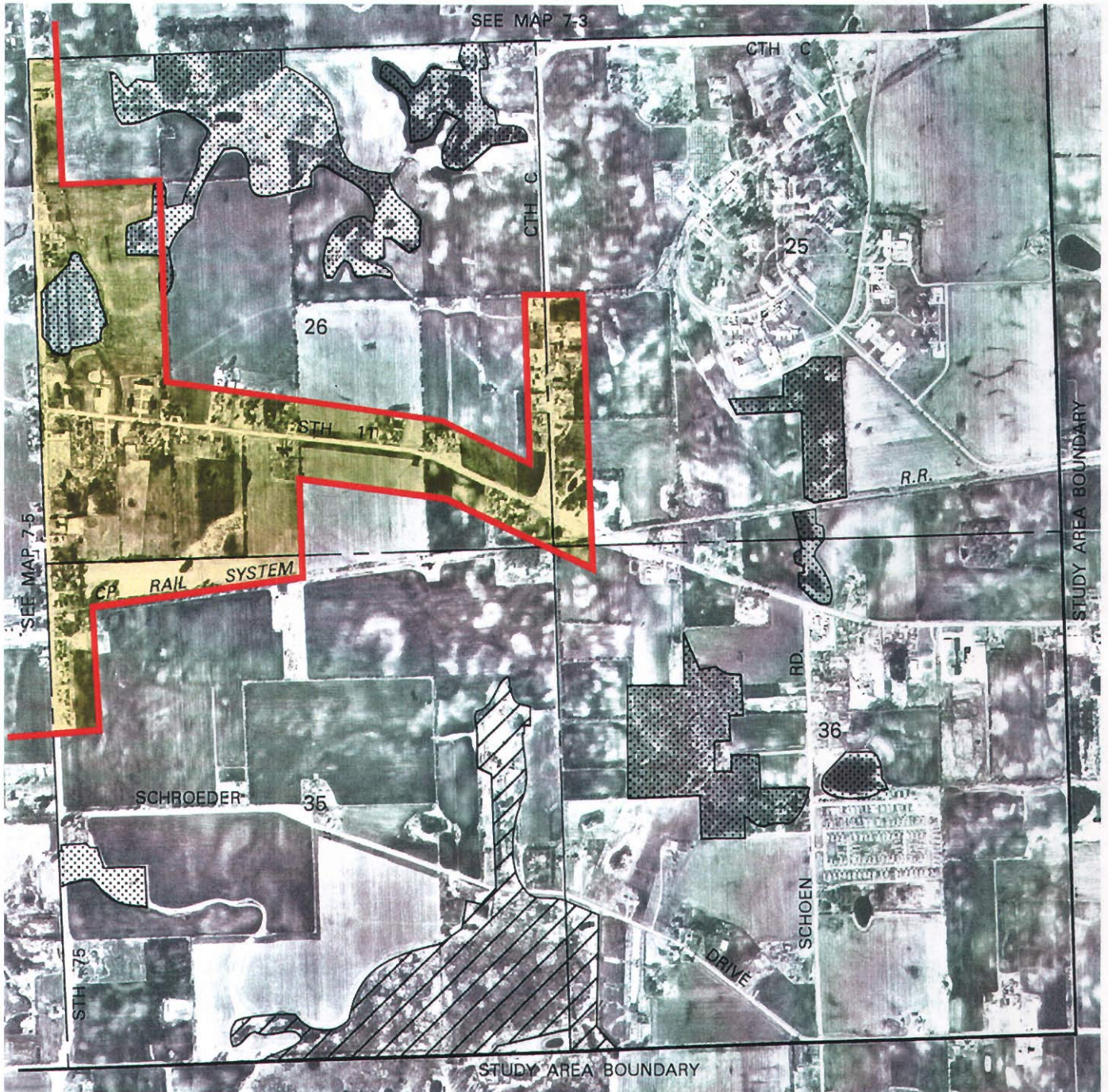
CONCLUDING RECOMMENDATION

Based upon the foregoing, it is recommended that the Southeastern Wisconsin Regional Planning Commission formally amend the sanitary sewer service area for the Eagle Lake Sewer Utility District as documented in SEWRPC Community Assistance Planning Report No. 206 in the manner identified on Map 1. A more detailed delineation of the revised sewer service area and of the environmentally significant lands within is shown on an aerial photograph reproduced as Map 2.

Map 2



ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE EAGLE LAKE SEWER UTILITY DISTRICT AND ENVIRONS

U. S. Public Land Survey Sections 25, 26, 35, and 36
Township 3 North, Range 20 East



LEGEND

-  PRIMARY ENVIRONMENTAL CORRIDOR
-  ISOLATED NATURAL RESOURCE AREA

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

NOTE: This map replaces Map 7-6, page 24, SEWRPC Community Assistance Planning Report No. 206, Sanitary Sewer Service Area for the Eagle Lake Sewer Utility District, Racine County, Wisconsin, December 1992.

Source: SEWRPC.

