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SOUTHEASTERN WISCONSIN **PLANNING** REGIONAL

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Serving the Counties of

SUBJECT: Certification of Amendment to the Adopted Regional Water Quality

Management Plan (Twin Lakes Sanitary Sewer Service Area)

TO:

The Legislative Bodies of Concerned Local Units of Government within the Southeastern Wisconsin Region, namely: the County of Kenosha, the Village of Twin Lakes, and the Town of Randall

This is to certify that at the quarterly meeting of the Southeastern Wisconsin Regional Planning Commission, held at the Racine County Highway and Office Building, Ives Grove, Wisconsin, on the 3rd day of March 1993, the Commission did by unanimous vote by 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 proposed sanitary sewer service area for the Village of Twin Lakes 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 4th day of March 1993.

David B. Falstad, Chairman

Web Johnson

Southeastern Wisconsin Regional Planning Commission

ATTEST:

Kurt W. Bauer, Deputy Secretary

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RESOLUTION NO. 93-13

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 COMPRISED OF THE COUNTIES OF KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH WASHINGTON, AND WAUKESHA IN THE STATE OF WISCONSIN (TWIN LAKES 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 15th day of June 1987, the Commission duly adopted an amendment to the regional water quality management plan refining and detailing the Twin Lakes sanitary sewer service area as documented in SEWRPC Community Assistance Planning Report No. 149, Sanitary Sewer Service Area for the Village of Twin Lakes, Kenosha County, Wisconsin, June 1987; and

WHEREAS, by letter dated December 11, 1992, the Village of Twin Lakes requested that the Commission amend the Twin Lakes sanitary sewer service area to include lands located adjacent to, but outside, the 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 Village of Twin Lakes to Amend the Twin Lakes Sanitary Sewer Service Area," attached hereto and made a part hereof, which memorandum concludes that the plan amendment requested by the Village of Twin Lakes is sound and in the public interest; and

WHEREAS, the requested change to the regional water quality management plan, as documented in the abovementioned staff memorandum, was the subject of a public hearing held by the Village of Twin Lakes and the Regional Planning Commission on February 8, 1993; and

WHEREAS, the Village Board of the Village of Twin Lakes on February 8, 1993, approved the amendment to the Twin Lakes sanitary sewer service area as set forth in the abovereferenced staff memorandum; 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 15th day of June 1987 to include the initial refined Twin Lakes sanitary sewer service area, as set forth in SEWRPC Community Assistance Planning Report No. 149, 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 Industry, Labor and Human Relations 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 3rd day of March 1993, the vote being: Ayes 14; Nays 0.

David B. Falstad, Chairman

Voul 5 yours

ATTEST:

Kurt W. Bauer, Deputy Secretary

land uses; about 106 acres, or 49 percent, are open lands envisioned to be developed primarily for residential land use; and the remaining 28 acres, or about 13 percent of the area, is encompassed within secondary environmental corridor lands consisting primarily of upland woods, significant wildlife habitat, and steep slopes.

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

The revised year 2010 Twin Lakes sanitary sewer service area, including the subject additional lands, would encompass about 7.8 square miles and would include about 2.3 square miles of primary environmental corridor lands, about 0.4 square mile of secondary environmental corridor lands, and about 0.1 square mile of isolated natural resource area lands. Thus, about 2.8 square miles, or about 36 percent of the revised sewer service area, would be comprised of environmentally significant lands. The incremental new housing units envisioned to be located within the Twin Lakes sewer service area, including the subject lands, would be accommodated at a density of about 2.5 housing units per net residential acre. This density lies within the recommended medium density range for the Twin Lakes area of the Region identified in the adopted regional land use plan.

WATER QUALITY IMPACTS

It is envisioned that all urban lands located within the Twin Lakes urban service area, including those lands proposed for urban development within the subject area, would ultimately receive sanitary sewer service. It is also envisioned that all lands identified as primary environmental corridor would not be developed for intensive urban use. It is recognized, however, that certain land uses requiring sanitary sewer service could be properly located in the corridors, including park and outdoor recreation facilities, certain institutional uses, and, in some cases, very low-density residential development consisting of single-family residences on five-acre lots. Accordingly, assuming proper site development and construction practices, including appropriate soil erosion control practices, and compatible levelopment within any primary or secondary environmental corridors, isolated natural resource areas, or lands adjacent to such areas, there should be no significant adverse water quality impacts attributable to the development of the subject area. Furthermore, the provision of public sewer to the Randall School and the adjacent developed areas may be expected to reduce the pollutant loadings to the groundwater system from the existing onsite sewage disposal systems and from any new system that would otherwise have to be provided to serve the proposed expanded Randall School facilities. To the extent that failure may occur, the abandonment of the existing onsite sewage disposal systems facilities may also be expected to have positive surface water quality impacts.

COST-EFFECTIVENESS ANALYSIS

The Randall School lies within 0.5 mile of the currently approved Twin Lakes sanitary sewer service area. The next closest sewerage system is located over five miles away. A November 16, 1992, report prepared by the engineering consultant to the Randall Consolidated School District concluded that the provision of public sewers is the soundest method of providing for sewage disposal at the Randall School site. On the basis of that report and the location of the Randall School site it may be concluded that the most cost-effective means of providing for sewerage service to the Randall School and adjacent areas would be by connection to the Village of Twin Lakes sewerage system.

SEWAGE TREATMENT PLANT CAPACITY IMPACT ANALYSIS

The Village of Twin Lakes sewage treatment plant has a capacity of about 0.70 million gallons per day (mgd) on an average annual basis. The current average annual loading to the plant is about 0.40 mgd. The addition of the Randall School to the sewerage system may be expected to add, on an average annual basis, about 14,000 gallons per day (gpd) of sewage initially and about 21,000 pd upon full development of the School. In addition, upon development of the other vacant lands proposed to be added to the service area, an additional 35,000 gpd of sewage flow may be expected to be generated on an average annual basis. Thus, the total additional sewage flow from the area

proposed to be added to the Twin Lakes sewer service area may be expected to approximate 56,000 gpd on an average annual basis following full development. This total increased loading would represent about 19 percent of the currently available capacity on an average annual flow basis. Thus, the Twin Lakes sewage treatment plant can accommodate the expected loading from the Randall School and other lands proposed to be added to the sewer service area.

It should be noted that the current total population within the Village of Twin Lakes proposed sewer service area is about 6,300 persons, including a seasonal population of about 2,000 persons. The year 2010 population of the sewer service area would approximate 10,500 persons under the adopted regional land use plan, including an estimated seasonal population of 3,300 persons. It would approximate 11,000 persons under the high-growth decentralized alternative future considered by the Regional Planning Commission, including an estimated seasonal population of 3,500 persons. These increases in population may be expected to result in an increase of sewage flow from about 0.40 mgd in 1990 to about 0.95 mgd under the adopted year 2010 regional land use plan and to about 1.00 mgd under the year 2010 high-growth decentralized alternative future. Thus, the flows to the sewage treatment plant would approximate full utilization by about the year 2000 if all of the currently unsewered areas within the now proposed sewer service area are provided with public sewer and if the planned growth in the sewer service area occurs as envisioned under either of the two alternative land use scenarios mentioned above. Thus, it will probably be necessary to initiate facility planning for a plant expansion some time between 1995 and 2000, depending on the rate of development. Additionally, facility planning may have to be initiated as a result of the need to upgrade the existing plant since some of the plant facilities are currently 20 or more years old.

PUBLIC REACTION TO THE PLAN AMENDMENT

A public hearing was held on February 8, 1993, at the Twin Lakes Village Hall to receive public comment on, and reaction to, the plan amendment. This hearing was sponsored jointly by the Village of Twin Lakes and the Regional Planning Commission. A summary of the public hearing minutes is presented in Appendix A of this staff memorandum.

A brief summary of the plan amendment was presented prior to receiving public comment. The rationale behind the refinement of the Twin Lakes sanitary sewer service area was discussed, as was the relationship of the proposed plan amendment to the existing sanitary sewer service area. The significance of the environmentally sensitive lands within the Twin Lakes sewer service area and the impact the plan amendment would have on these lands was also discussed. The conclusions of an analysis of the most cost-effective means of providing service to the affected lands and of the sewage treatment plant capacity impacts attributable to the affected lands were also discussed.

A review of the hearing minutes indicates that no concerns were raised in regards to the proposed amendment.

LOCAL GOVERNMENT CONSIDERATION OF THE PLAN AMENDMENT

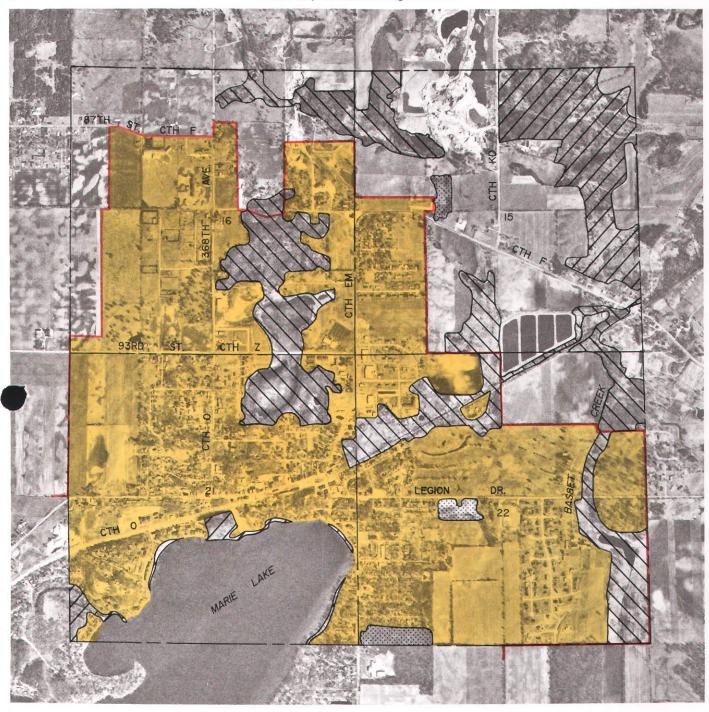
The proposed plan amendment was requested by, and is supported by, the Village Board of the Village of Twin Lakes.

CONCLUDING RECOMMENDATION

Based upon the foregoing, it is recommended that the Southeastern Wisconsin Regional Planning Commission formally amend the sanitary sewer service area as documented in the aforereferenced SEWRPC Community Assistance Planning Report No. 149 in the manner identified in Map 1. A more detailed delineation of the revised sewer service area, and of the environmentally significant lands therein, is shown on an aerial photograph reproduced as Map 2.

ENVIRONMENTALLY SIGNIFICANT LANDS AND SANITARY SEWER SERVICE AREA FOR THE VILLAGE OF TWIN LAKES AND ENVIRONS

U. S. Public Land Survey Sections 15, 16, 21, and 22 Township 1 North, Range 19 East







PRIMARY ENVIRONMENTAL CORRIDOR SECONDARY ENVIRONMENTAL CORRIDOR ISOLATED NATURAL RESOURCE AREA

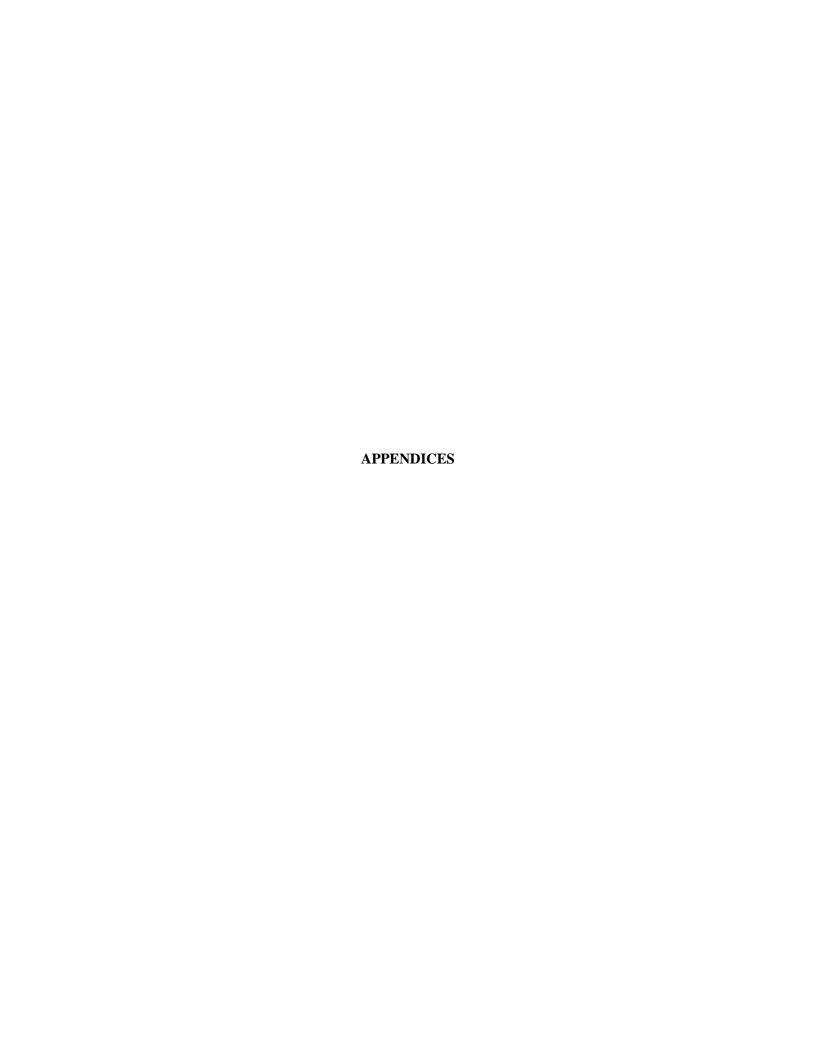


GROSS SANITARY SEWER SERVICE AREA BOUNDARY

NOTE: This map replaces Map 8-7, page 29, SEWRPC Community Assistance Planning Report No. 149, <u>Sanitary Sewer Service Area</u> for the Village of Twin Lakes, <u>Kenosha County</u>, <u>Wisconsin</u>.



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Appendix A

MINUTES OF PUBLIC HEARING

Sanitary Sewer Service Area Amendment for the Village of Twin Lakes February 8, 1993

PUBLIC HEARING SEWER SERVICE AREA AMENDMENT FEBRUARY 8, 1993 - 6:45 P.M. VILLAGE HALL, TWIN LAKES

Meeting called to order by Clerk. Motion by Rohde to appoint Merlin Jahns as Acting President in the absence of Mr. Oberhofer, seconded by Paus, carried. Roll Call: Elverman, Jahns, Laurin, Paus, Rohde present. Mc Bride and Oberhofer absent.

Mr. Jahns stated that the purpose of this public hearing was to receive public comments on and reaction to a proposed amendment to the year 2010 sewer service area for the Village of Twin Lakes. The public hearing is being sponsored by the Village of Twin Lakes and the Southeastern Wisconsin Regional Planning Commission. Mr. Jahns then introduced Mr. Bruce Rubin of SEWRPC.

Mr. Rubin gave a brief synopsis of SEWRPC Staff Memorandum dated 12-28-92 relating to background, area description, relationship of the proposed change to the existing sanitary sewer service area, water quality impacts, cost effectiveness analysis, and sewage treatment plant capacity impact analysis.

ew questions from the floor regarding treatment plant and sewer main capabilities. Mr. Elverman stated that the treatment plant was of sufficient size to accommodate the additional loads and the sewer main were of a size to accommodate the flows from the lands as well.

Motion to adjourn by Elverman, Paus, carried.

Respectfully submitted.

Borothy E. Sandona, CMC

Villag# Clerk