

AMENDMENT TO THE

**REGIONAL WATER QUALITY  
MANAGEMENT PLAN**

**VILLAGE OF PADDOCK LAKE**

AS ADOPTED BY THE

**SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION**

DECEMBER 2001

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REGIONAL PLANNING COMMISSION**

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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 (Paddock Lake 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 Paddock Lake, and the Town of Salem.

This is to certify that at the meeting of the Southeastern Wisconsin Regional Planning Commission, held at the Milwaukee County War Memorial Center, Milwaukee, Wisconsin, on the 5th day of December 2001, the Commission did by unanimous vote of all Commissioners present, being 18 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 Paddock Lake 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 Waukesha, Wisconsin, this 6th day of December 2001.

A handwritten signature in black ink, appearing to read "Thomas H. Buestrin".

Thomas H. Buestrin, Chairman  
Southeastern Wisconsin  
Regional Planning Commission

ATTEST:

A handwritten signature in black ink, appearing to read "Philip C. Evenson".

Philip C. Evenson, Deputy Secretary

**RESOLUTION NO. 2001-27**

**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 (PADDOCK LAKE 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 1st day of December 1986, the Commission duly adopted an amendment to the regional water quality management plan refining and detailing the Paddock Lake sanitary sewer service area as documented in SEWRPC Community Assistance Planning Report No. 145, *Sanitary Sewer Service Area for the Town of Salem Utility District No. 1, Village of Paddock Lake, and Town of Bristol Utility District Nos. 1 and 1B, Kenosha County, Wisconsin*, October 1986, as amended; and

WHEREAS, by letter dated October 24, 2001, the Village of Paddock Lake requested that the Commission amend the Paddock 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 Village of Paddock Lake to Amend the Paddock 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 Village of Paddock Lake and the Regional Planning Commission on November 29, 2001; 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;

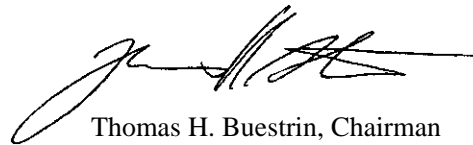
NOW, THEREFORE, BE IT HEREBY RESOLVED:

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 1st day of December 1986 to include the refined Paddock Lake sewer service area, as set forth in SEWRPC Community Assistance Planning Report No. 145, 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 5th day of December 2001, the vote being: Ayes 18; Nays 0.



Thomas H. Buestrin, Chairman

ATTEST:

*Philip C. Evenson*  
Philip C. Evenson, Deputy Secretary

## SEWRPC STAFF MEMORANDUM

### RESPONSE TO REQUEST BY THE VILLAGE OF PADDOCK LAKE TO AMEND THE PADDOCK LAKE SANITARY SEWER SERVICE AREA

#### INTRODUCTION AND BACKGROUND

By letter dated October 24, 2001, the Village of Paddock Lake requested that the Southeastern Wisconsin Regional Planning Commission amend the Paddock Lake sanitary sewer service area tributary to the Village of Paddock Lake sewage treatment facility. That area is currently documented in SEWRPC Community Assistance Planning Report No. 145, *Sanitary Sewer Service Area for the Town of Salem Utility District No. 1, Village of Paddock Lake, and Town of Bristol Utility District Nos. 1 and 1B, Kenosha County, Wisconsin*, dated October 1986, as amended. The basic purpose of the amendment would be to include within the planned Paddock Lake sewer service area certain lands located immediately adjacent to, but outside of, the currently adopted sewer service area.

#### AREA DESCRIPTION

The area proposed to be added to the Paddock Lake sanitary sewer service area encompasses approximately 80 acres located in U.S. Public Land Survey Section 3, Township 1 North, Range 20 East, in the Village of Paddock Lake, and is shown on Map 1. The subject area includes 8 acres of existing residential lands, 12 acres of primary environmental corridor, and about 1 acre of isolated wetlands. The remainder of 59 acres, consisting of land currently in agricultural use, is anticipated to be developed for residential use. A total of about 100 housing units, with a population of about 260 persons, would be accommodated within the subject area.

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

The proposed addition of approximately 80 acres to the Paddock Lake sanitary sewer service area represents an increase in the planned sewer service area of about six percent. The Paddock Lake sewer service area, as amended to include the subject area, would encompass a total of 1,512 acres, including 320 acres of primary environmental corridor, 3 acres of secondary environmental corridor, 43 acres of isolated natural resource areas, and 7 acres of wetlands and surface water areas less than five acres in size.

The Village of Paddock Lake adopted a new land use plan in 1997. Based upon the pattern of land use recommended under that plan, it was determined that the Paddock Lake sewer service area, including the proposed addition encompassing 80 acres, would accommodate a “buildout” population of about 5,000 persons. This population level is consistent with that envisioned for the Paddock Lake sewer service area under the currently adopted regional land use plan for the year 2020.

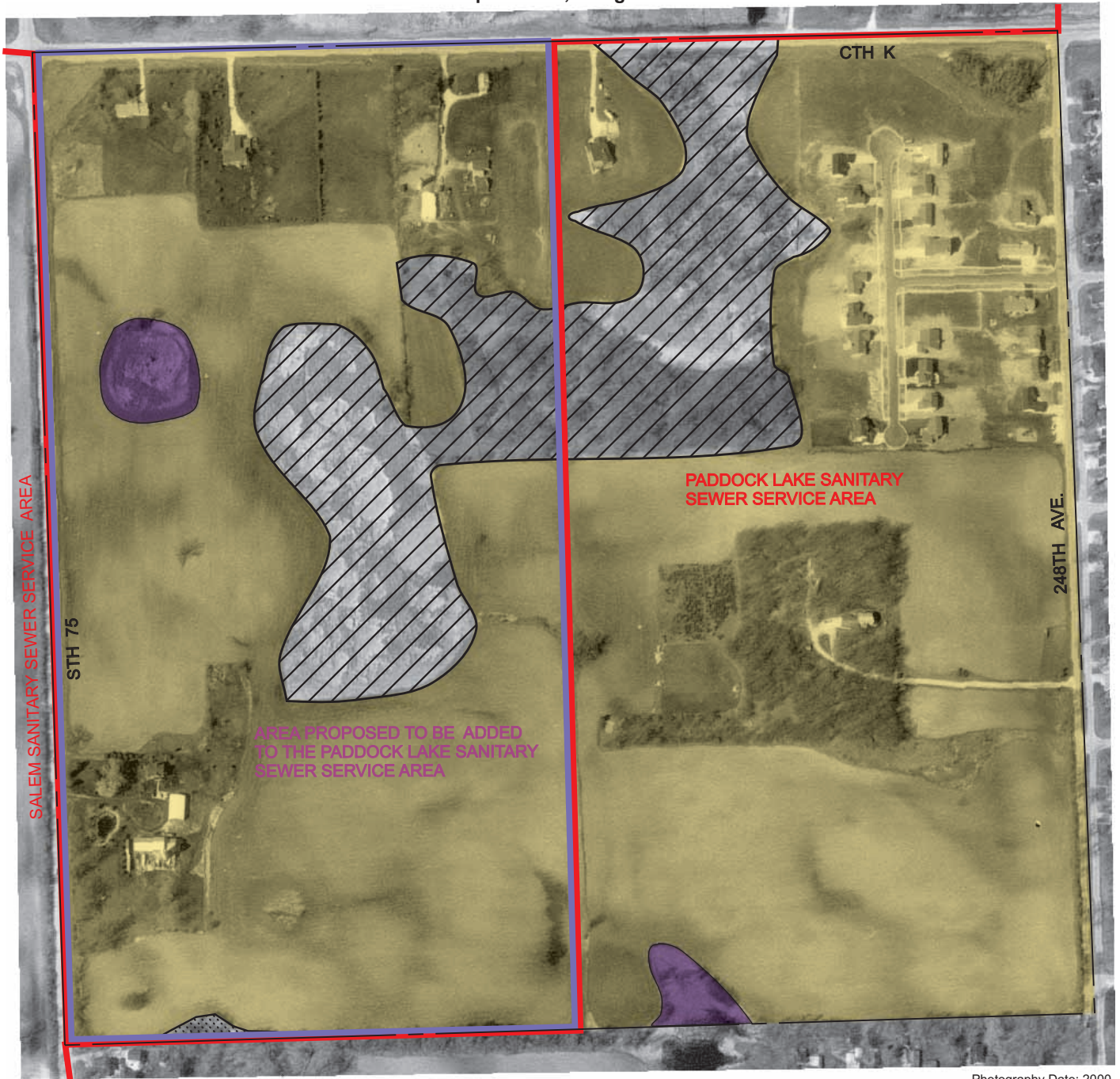
#### WATER QUALITY IMPACTS

Under the adopted regional water quality management plan and the 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. In addition, the provision of public sanitary sewer service to those lands within the planned sanitary sewer service area which are currently developed and served by onsite sewage disposal systems may be expected to reduce the pollutant loadings from the existing onsite sewage disposal systems to both surface and ground waters. 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

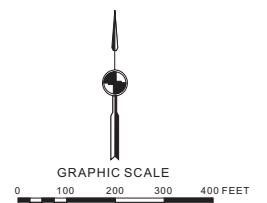
ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE VILLAGE OF PADDOCK LAKE

Northeast Quarter of U. S. Public Land Survey Section 3  
Township 1 North, Range 20 East



Photography Date: 2000

- |                                                                                                                                                   |                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|  PRIMARY ENVIRONMENTAL CORRIDOR                                |  PLANNED SANITARY SEWER SERVICE AREA                               |
|  ISOLATED NATURAL RESOURCE AREA                                |  CURRENTLY APPROVED SANITARY SEWER SERVICE AREA BOUNDARY           |
|  WETLANDS AND SURFACE WATER AREAS LESS THAN FIVE ACRES IN SIZE |  PROPOSED ADDITION TO THE PADDOCK LAKE SANITARY SEWER SERVICE AREA |



Source: SEWRPC.

## COST-EFFECTIVENESS ANALYSIS

The proposed addition to the Paddock Lake sanitary sewer service area lies just north and west of the currently approved sewer service area and within one-quarter mile of existing sewers tributary to the Village of Paddock Lake sewerage system. The nearest other public sanitary sewer system, that operated by the Town of Salem, is located immediately west of the subject area. A common boundary between the Paddock Lake and Salem sewer service areas has been established, and runs along STH 75 on the western boundary of the subject area. This boundary was established in a cost-effectiveness study set forth in a SEWRPC Staff Memorandum entitled "Documentation of Analyses Associated with Providing Sanitary Sewer Service to Certain Lands Lying in the STH 50 Corridor in the Paddock Lake-Salem Area," dated November 2000. The subject area to be added to the Paddock Lake sewer service area is located on the Paddock Lake side of that boundary. Consequently, no further analysis is deemed necessary to conclude that the subject area would be served most cost-effectively through connection to the Village of Paddock Lake sewerage system.

## SEWERAGE SYSTEM CAPACITY IMPACT ANALYSIS

Sewage from the Paddock Lake area is treated at the Village of Paddock Lake sewage treatment facility. The Paddock Lake sewage treatment plant has a hydraulic design capacity of about 0.49 million gallons per day (mgd) on an average annual basis. The current hydraulic loading to the plant is about 0.45 mgd on an average annual basis. The sewage flows anticipated to be generated in the area proposed to be added to the Paddock Lake sewer service area may be expected to be less than 0.05 mgd on an average annual basis.

The Village has been discussing the re-rating of its sewage treatment plant capacity with the Wisconsin Department of Natural Resources—this could result in an increase of the plant's rated capacity. However, future sewage flows from undeveloped portions of the currently approved Paddock Lake sewer service area are estimated to range from 0.2 mgd to 0.3 mgd on an average annual basis. Accordingly, an increase in the sewage treatment plant capacity will be needed in any case within the next five years if development continues to occur in the Paddock Lake sewer service area. It is recommended that the Village carefully monitor its treatment plant operations and initiate facility planning for a future plant expansion in the near future.

## PUBLIC REACTION TO THE PLAN AMENDMENT

A public hearing was held on November 29, 2001, at the Paddock Lake Municipal Building to receive public comment on, and reaction to, the proposed plan amendment. The hearing was sponsored by the Village of Paddock Lake 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, environmentally significant lands located within that area, and the relationship of the subject area to the long-term common boundary established between the Paddock Lake and Salem sanitary sewer service areas.

At the public hearing, questions were raised pertaining to the capacity of the Village of Paddock Lake sewage treatment plant and the process used in establishing a long-term common boundary between the Paddock Lake and Salem sewer service areas. In response to a question regarding the rated capacity of the sewage treatment plant, the Village engineering consultant noted that, although the plant is operating near its rated hydraulic capacity, the current organic loading is significantly below capacity. The consultant also noted that the Village is in the process of reducing clear water infiltration into the sewerage system, which would reduce the hydraulic loading to the plant, resulting in greater available capacity. In response to a question regarding the establishment of a common boundary between the Paddock Lake and Salem sewer service areas, regional planning commission staff indicated that the boundary was based largely upon cost-effectiveness considerations. However, where costs of sanitary sewer service through the Paddock Lake and Salem systems were not found to differ significantly, environmental considerations and existing sewage treatment plant capacity were also considered in establishing the boundary.

No substantive questions or concerns were expressed at the public hearing that would alter the plan amendment, and no changes were made to the plan amendment as presented at the hearing.



## LOCAL GOVERNMENT SUPPORT FOR THE PLAN AMENDMENT

The Board of Trustees of the Village of Paddock Lake adopted the plan amendment on December 3, 2001.

## 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 Paddock Lake area as documented in SEWRPC Community Assistance Planning Report No. 145, as amended, in the manner identified on Map 1.