

AMENDMENT TO THE

**REGIONAL WATER QUALITY  
MANAGEMENT PLAN**

**TOWN OF BRISTOL  
UTILITY DISTRICT NO. 1**

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 (Bristol Sanitary Sewer Service Area)

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

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 Bristol 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. 2005-17**

**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 (BRISTOL 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 sanitary sewer service area attendant to the Town of Bristol Utility District No. 1 sewage treatment plant 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*, dated October 1986, as amended; and

WHEREAS, by letter dated September 23, 2005, the Town of Bristol requested that the Commission amend the Bristol 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 Town of Bristol to Amend the Town of Bristol Utility District No. 1 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 Town of Bristol and the Regional Planning Commission on November 14, 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 1st day of December 1986 to include the refined Bristol 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 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.

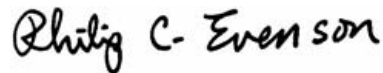
THIRD: That a true, correct, and exact copy of this resolution, together with the aforementioned SEWRPC staff memorandum, shall be forthwith distributed to each of the local legislative bodies of the local governmental units within the Region entitled thereto and to such other bodies, agencies, or individuals 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', with a long horizontal flourish extending to the right.

Thomas H. Buestrin, Chairman

ATTEST:

A handwritten signature in black ink, appearing to read 'Philip C. Evenson', written in a cursive style.

Philip C. Evenson, Deputy Secretary

## SEWRPC STAFF MEMORANDUM

### RESPONSE TO REQUEST BY THE TOWN OF BRISTOL TO AMEND THE TOWN OF BRISTOL UTILITY DISTRICT NO. 1 SANITARY SEWER SERVICE AREA

#### INTRODUCTION AND BACKGROUND

By letter dated September 23, 2005, the Town of Bristol requested that the Southeastern Wisconsin Regional Planning Commission amend the Town of Bristol Utility District No. 1 (UD1) sanitary sewer service area as 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 sewer service area certain lands located immediately adjacent to, but outside of, the currently adopted sewer service area to accommodate planned residential, commercial, and recreational use.

#### AREA DESCRIPTION

The area proposed to be added to the Bristol UD1 sanitary sewer service area encompasses 448 acres located in U.S. Public Land Survey Section 17, Township 1 North, Range 21 East, in the Town of Bristol (see Map 1). The subject area contains 72 acres of environmentally significant lands, including 61 acres of secondary environmental corridor, 2 acres of isolated natural resource area, 1 acre of small wetlands, and 8 acres of farmed floodplains. It is envisioned that the farmed floodplains would eventually revert to more natural conditions and become part of the adjacent secondary environmental corridor as agricultural operations cease. The subject area also contains 13 acres of existing urban land use, primarily consisting of road rights-of-way. The remainder of 363 acres, currently in agricultural use, is anticipated to be developed for residential, commercial, and recreational uses. It is envisioned that the proposed residential development would accommodate about 320 housing units with a population of about 800 persons.

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

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

The proposed addition of 448 acres to the Bristol UD1 sanitary sewer service area represents an increase in the planned sewer service area of 28 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 Bristol UD1 area embodied in the regional land use plan.

#### WATER QUALITY IMPACTS

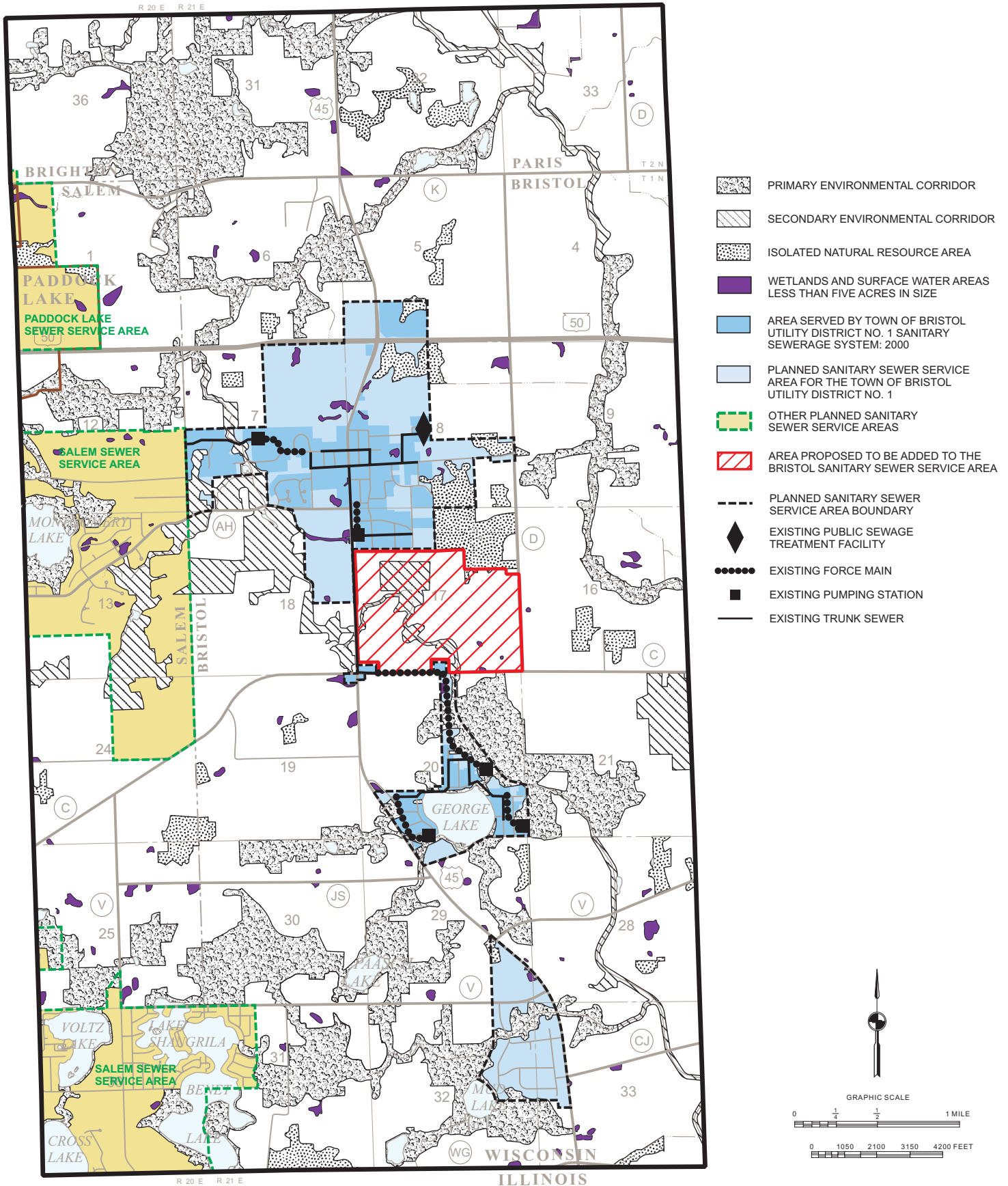
Under the adopted regional water quality management plan and the refined Bristol sanitary sewer service area plan herein set forth, it is envisioned that all urban lands within the planned urban service area would receive sanitary sewer service. Assuming that all applicable Federal, State, and local 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.

#### SEWAGE TREATMENT PLANT CAPACITY IMPACT ANALYSIS

Sewage from the western half of the Town of Bristol—with the exception of the Lake Shangrila/Benet Lake area in the southwestern corner of the Town—is treated at the Town of Bristol Utility District No. 1 sewage treatment facility, which has a design capacity of 0.48 million gallons per day (mgd) on an average annual basis. The current hydraulic loading to

Map 1

PROPOSED AMENDMENT TO THE TOWN OF BRISTOL UTILITY DISTRICT NO. 1 SANITARY SEWER SERVICE AREA



Source: SEWRPC.

the plant is about 0.48 mgd on an average annual basis, with about 0.1 mgd of that figure being attributable to holding tank wastes being hauled to the facility.

Facilities planning for upgrade and expansion of the Bristol UD1 sewage treatment plant was completed in 2004, and construction is currently underway to upgrade the hydraulic capacity of the existing plant to 0.87 mgd on an average annual basis<sup>1</sup>. It is anticipated that the acceptance of hauled waste will be phased out over the next 10 years. The anticipated sewage flow to be generated in the area proposed to be added to the Bristol sewer service area is estimated to be about 0.2 mgd on an average annual basis. Thus, the treatment plant will have capacity to serve the proposed addition to sewer service area.

If the vacant developable lands within the Bristol UD1 sewer service area, including the proposed addition, were fully developed in accordance with local plans, flows to the Bristol UD1 sewage treatment facility would approximate 0.8 to 0.9 mgd on an average annual basis. Those total flows would be somewhat dependent upon the sewage flows generated by new commercial and industrial development, and assume, consistent with the facility plan, that hauled wastes would be phased out. **Depending upon the level and density of growth that will actually occur upon full development of the planned sewer service area, it may be necessary to conduct additional facilities planning to expand the sewage treatment plant capacity beyond 0.87 mgd at some point before 2025.**<sup>2</sup>

#### PUBLIC REACTION TO THE PLAN AMENDMENT

A public hearing was held on November 14, 2005 at the Bristol Town Hall to receive public comment on, and reaction to, the proposed plan amendment. The hearing was sponsored by the Town of Bristol 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.

At the public hearing, several questions were raised by Town residents regarding the sewage treatment plant capacity, including existing and planned future capacity, and the nature of plant upgrades currently underway. The Town's engineering consultant was present at the hearing, provided answers to all questions, and reaffirmed statements in the text of the draft SEWRPC staff memorandum pertaining to sewage treatment plant capacity. No other 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 Board of Supervisors of the Town of Bristol adopted the plan amendment on November 14, 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 Town of Bristol Utility District No. 1 as documented in SEWRPC Community Assistance Planning Report No. 145, as amended, in the manner identified on Map 1.

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<sup>1</sup> *The facilities planning considered regionalization of wastewater treatment in this portion of Kenosha County. Several alternatives were considered that involved conveyance of wastewater from the Town of Bristol UD1 and/or the Village of Paddock Lake to the City of Kenosha sewage treatment facility, as well as conveyance of wastewater from the Village of Paddock Lake to Bristol, with the Bristol UD1 sewage treatment facility serving in a regional capacity. Based upon both monetary and non-monetary considerations, it was concluded that the best option would be for the Town of Bristol and the Village of Paddock Lake to retain and upgrade their own sewage treatment facilities. The Town of Bristol facilities plan was subsequently approved by the Wisconsin Department of Natural Resources in August 2004.*

<sup>2</sup> *The southernmost portion of the Bristol UD1 sewer service area, located along the west side of USH 45 about one-half mile north of the Wisconsin-Illinois State line, was not included in the analysis of sewage treatment plant capacity because this area is not anticipated to be served by public sewers within the foreseeable future. The area contains about 115 housing units with an estimated population of about 300 persons, and could potentially contribute a sewage flow of about 0.04 mgd on an average annual basis, if sewerred.*






Map 2



ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE TOWN OF BRISTOL UTILITY DISTRICT NO. 1

U. S. Public Land Survey Section 17  
Township 1 North, Range 21 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 the corresponding portion of Map 7-11, page 36, of 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.*



Source: SEWRPC.