

AMENDMENT TO THE

# **REGIONAL WATER QUALITY MANAGEMENT PLAN**

# **VILLAGE OF SUSSEX**

AS ADOPTED BY THE  
LISBON  
PEWAUKEE  
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

JUNE 1998

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REGIONAL PLANNING COMMISSION**

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Kenneth R. Yunker, PE ..... Assistant Director  
Robert P. Biebel, PE ..... Chief Environmental Engineer  
Monica C. Drewniany, AICP. . . . Chief Community Assistance Planner  
Leland H. Kreblin, RLS ..... Chief Planning Illustrator  
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John G. McDougall ..... Geographic Information Systems Manager  
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# SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

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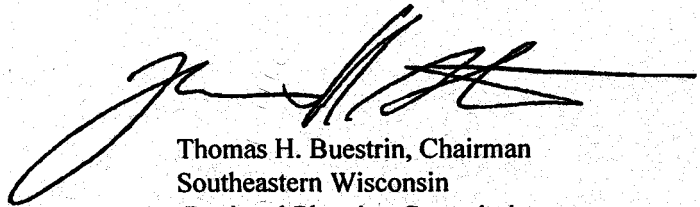
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**SUBJECT:** Certification of Amendment to the Adopted Regional Water Quality Management Plan (Sussex Sanitary Sewer Service Area)

**TO:** The Legislative Bodies of Concerned Local Units of Government within the Southeastern Wisconsin Region, namely: the County of Waukesha, the Village of Sussex, and the Town of Lisbon

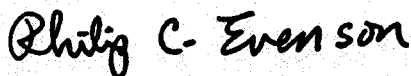
This is to certify that at the meeting of the Southeastern Wisconsin Regional Planning Commission, held at the Washington County Courthouse, West Bend, Wisconsin, on the 17th day of June 1998, the Commission did by unanimous vote of all Commissioners present, being 15 ayes and 0 nays, and by appropriate 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 Sussex 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 18th day of June 1998.



Thomas H. Buestrin, Chairman  
Southeastern Wisconsin  
Regional Planning Commission

**ATTEST:**



Philip C. Evenson, Deputy Secretary

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**RESOLUTION NO. 98-8**

**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  
(SUSSEX 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 7th day of September 1994, the Commission duly adopted an amendment to the regional water quality management plan refining and detailing the Sussex sanitary sewer service area as documented in SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), Sanitary Sewer Service Area for the Village of Sussex, Waukesha County, Wisconsin, September 1994; and

WHEREAS, by letter dated April 1, 1998, the Village of Sussex requested that the Commission amend the Sussex 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 Sussex to Amend the Sussex 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 Village of Sussex and the Regional Planning Commission on June 9, 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;

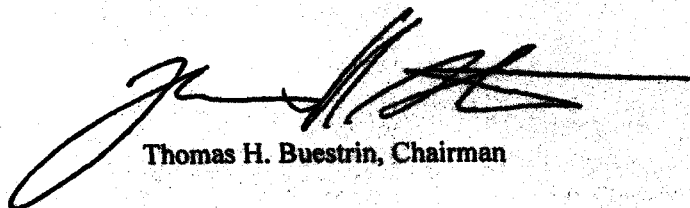
NOW, THEREFORE, BE IT HEREBY RESOLVED:

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 7th day of September 1994 as set forth in SEWRPC Community Assistance Planning Report No. 84 (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.

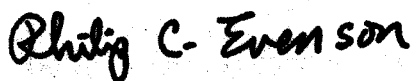
**THIRD:** That a true, correct, and exact copy of this resolution, together with the aforereferenced SEWRPC staff memorandum, shall be forthwith distributed to each of the local legislative bodies of the local governmental units within the Region entitled thereto and to such other bodies, agencies, 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, Deputy Secretary



## **SEWRPC STAFF MEMORANDUM**

### **RESPONSE TO REQUEST BY THE VILLAGE OF SUSSEX TO AMEND THE SUSSEX SANITARY SEWER SERVICE AREA**

#### **INTRODUCTION AND BACKGROUND**

By letter dated April 1, 1998, the Village of Sussex requested that the Southeastern Wisconsin Regional Planning Commission amend the Sussex sanitary sewer service area as that area is currently documented in SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), Sanitary Sewer Service Area for the Village of Sussex, Waukesha County, Wisconsin, dated September 1994, as amended. The basic purpose of the amendment would be to include within the planned Sussex sewer service area certain lands located immediately adjacent to, but outside of, the currently adopted sewer service area to accommodate planned residential, commercial, and industrial land uses. 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 areas proposed to be added to the Sussex sanitary sewer service area encompass approximately 293 acres, or about 7 percent of the currently adopted Village of Sussex sewer service area. In 1995, 7.6 acres, or about 7 percent of the areas proposed to be added, were in urban use, including 6.3 acres of residential land use containing 5 existing housing units, and 1.3 acres of commercial and industrial land use. About 2.5 acres, or 1 percent of the subject areas, are located within secondary environmental corridor lands, and about 32 acres, or 9 percent, are located within isolated natural resource areas. The remainder of 251 acres, consisting of vacant developable lands located outside of environmentally sensitive areas, comprises about 85 percent of the areas to be added. It is anticipated that 63 acres would be developed for low-density residential use at 1.5 housing units per gross acre of land; 20 acres would be developed for medium-density residential use at 5.5 dwelling units per gross acre of land; and 168 acres would be developed for commercial and industrial uses. The afore-referenced vacant developable residential lands would accommodate about 205 additional housing units with a population of about 570 persons.

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

The revised sanitary sewer service area for the Village of Sussex, including the subject additional lands, would encompass about 6.6 square miles and would include about 0.1 square mile of primary environmental corridor; 0.7 square mile of secondary environmental corridor; 0.2 square mile of isolated natural resource areas; and 9 acres of wetlands and surface water areas less than five acres in size. Thus, about one square mile, or about 15 percent of the revised sewer service area, would be comprised of environmentally significant areas. Year 2010 resident population levels envisioned for the Village of Sussex sewer service area would range from about 8,400 persons under the Commission's intermediate-growth centralized land use plan, to about 16,560 persons under the Commission's high-growth decentralized land use plan. Based upon current community plans and zoning for the Village of Sussex, the revised sewer service area, including the subject additional lands, would accommodate a resident population of about 11,830 persons. This population level is within the range of population levels envisioned for the area under the Commission's regional land use plan.













#### **WATER QUALITY IMPACTS**

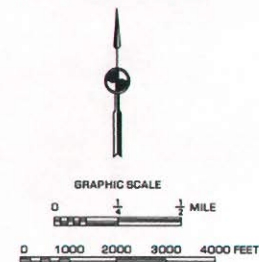
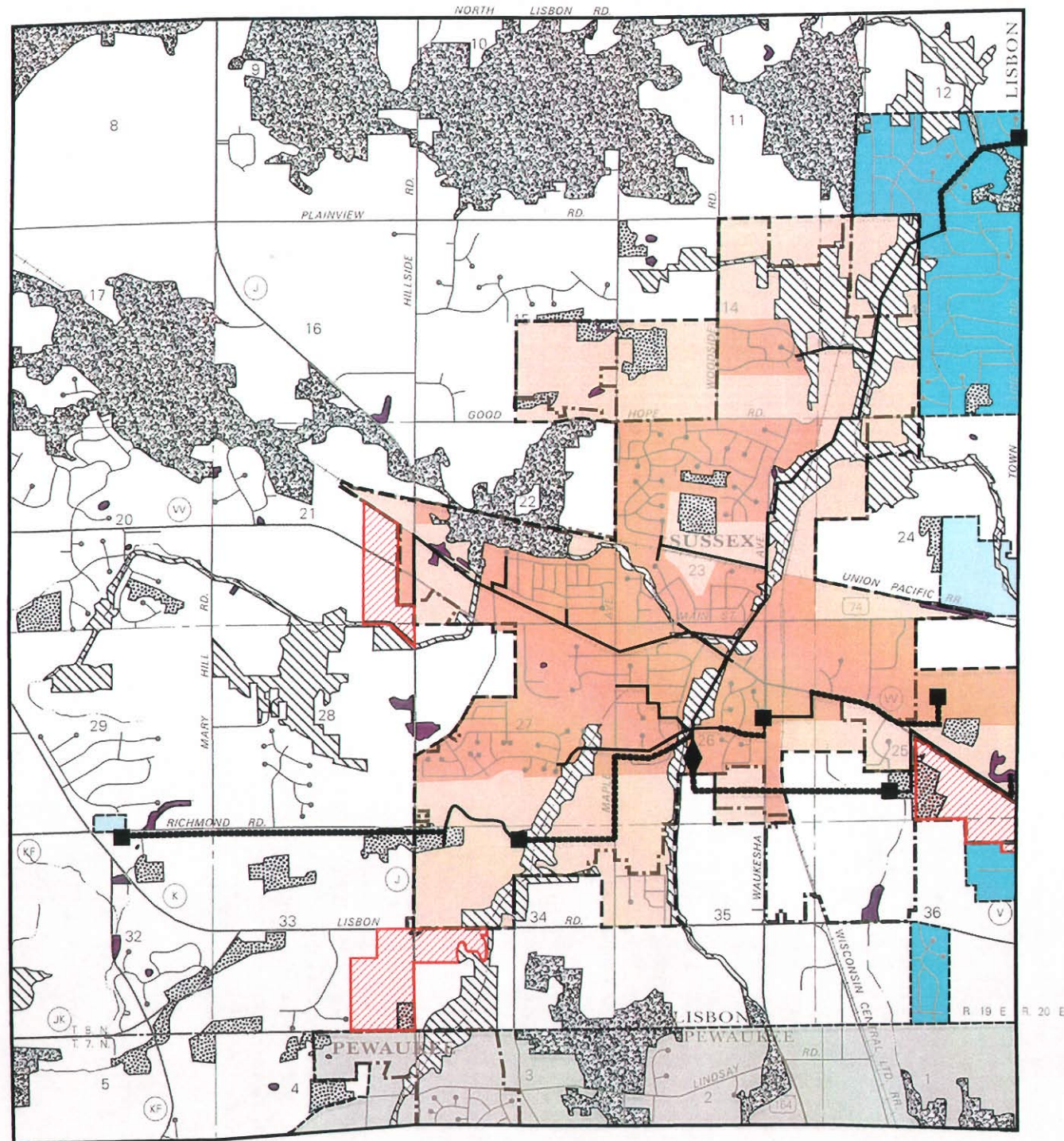
Under the adopted regional water quality management plan and the refined sanitary sewer service area plan herein set forth, it is envisioned that all urban lands within the planned urban service area would receive sanitary sewer service. Assuming that all applicable Federal, State, and local permits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

Map 1

# RECOMMENDED REVISION TO THE VILLAGE OF SUSSEX SANITARY SEWER SERVICE AREA

## LEGEND

-  PRIMARY ENVIRONMENTAL CORRIDOR
  -  SECONDARY ENVIRONMENTAL CORRIDOR
  -  ISOLATED NATURAL RESOURCE AREA
  -  WETLANDS AND SURFACE WATER AREAS LESS THAN 5 ACRES IN SIZE
  -  PLANNED SANITARY SEWER SERVICE AREA BOUNDARY
  -  EXISTING SANITARY SEWER SERVICE AREA: 1995
  -  PLANNED SANITARY SEWER SERVICE AREA: 2010
  -  LANDS TO BE ADDED TO THE SUSSEX SANITARY SEWER SERVICE AREA
  -  EXISTING PUBLIC SEWAGE TREATMENT FACILITY
  -  EXISTING PUMPING STATION
  -  EXISTING TRUNK SEWER
  -  EXISTING FORCE MAIN
  -  1998 VILLAGE BOUNDARIES
- OTHER SANITARY SEWER SERVICE AREAS  
TRIBUTARY TO THE SUSSEX SEWAGE TREATMENT PLANT**
-  TOWN OF LISBON  
SANITARY DISTRICT NO. 1
  -  TOWN OF LISBON
- OTHER**
-  SANITARY SEWER SERVICE AREAS TRIBUTARY TO THE FOX RIVER WATER POLLUTION CONTROL CENTER SEWAGE TREATMENT PLANT





## COST-EFFECTIVENESS ANALYSIS

All of the proposed additions to the Sussex sewer service area lie adjacent to the current sewer service area which is tributary to the Village of Sussex sewage treatment plant (see Map 2). The nearest other public sanitary sewer systems, those tributary to the Brookfield system and the Milwaukee Metropolitan Sewerage District, are located from two to four miles to the east and south of the subject areas. In this regard, a common sewer service area boundary has been agreed upon between the communities of Brookfield, Menomonee Falls, Pewaukee, and Sussex as set forth in SEWRPC Community Assistance Planning Report Nos. 109 and 208. That agreement was based upon cost effectiveness analyses set forth in a report entitled Amendment to the Regional Water Quality Management Plan, Upper Fox River Watershed, Brookfield and Sussex Sewage Treatment Plants, May 1989. Thus, the most cost-effective means of providing public sewer service to the entire Sussex service area is through the Village of Sussex sewerage system.

## SEWERAGE SYSTEM CAPACITY IMPACT ANALYSIS

The existing Village of Sussex sewage treatment plant has a hydraulic design capacity of about 3.2 million gallons per day (mgd) on an average annual flow basis. This treatment plant capacity is shared by the Villages of Sussex, Lannon, and Menomonee Falls; the Town of Lisbon Sanitary District No. 1; and the Town of Lisbon. The allocation of the 3.2 mgd plant capacity for each unit of government concerned is reported in detail in the sanitary sewer service area plan for the Village of Sussex and environs.<sup>1</sup> The Village of Sussex has been allocated 1.92 mgd of the treatment plant capacity, and about 1.4 mgd of the current loading is attributable to the Village of Sussex. The anticipated sewage flow to be generated in the area proposed to be added to the Sussex sewer service area may be expected to be about 0.30 mgd on an average annual basis upon full development. It should also be noted that the Village Engineer performed an analysis of impacts on the Village sewage treatment plant allocation resulting from full development of the areas proposed to be added to the sewer service area, as well as the other developable lands in the service area. That analysis included a revision of some of the initial assumptions used to establish the Village's allocation to reflect lower residential densities associated with one of the Village's residential zoning districts, as well as reduced industrial land flow estimates based upon the Village's experiences with recently developed areas. The analysis by the Village Engineer concludes that the Village's current sewage treatment plant allocation will be adequate, considering the areas proposed herein to be added to the sewer service area. Thus, treatment plant capacity should be adequate to serve the subject lands.

## PUBLIC REACTION TO THE PLAN AMENDMENT

A public hearing was held on June 9, 1998, at the Sussex Village Hall to receive public comment on, and reaction to, the proposed plan amendment. The hearing was sponsored by the Village of Sussex 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 Village Board of Trustees of the Village of Sussex adopted the plan amendment on June 9, 1998.

## CONCLUDING RECOMMENDATION

Based upon the foregoing, it is recommended that the Southeastern Wisconsin Regional Planning Commission formally amend the Sussex sanitary sewer service area as documented in SEWRPC Community Assistance Planning Report No. 84 (2nd Edition) 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 photographs reproduced as Maps 3, 4, and 5.

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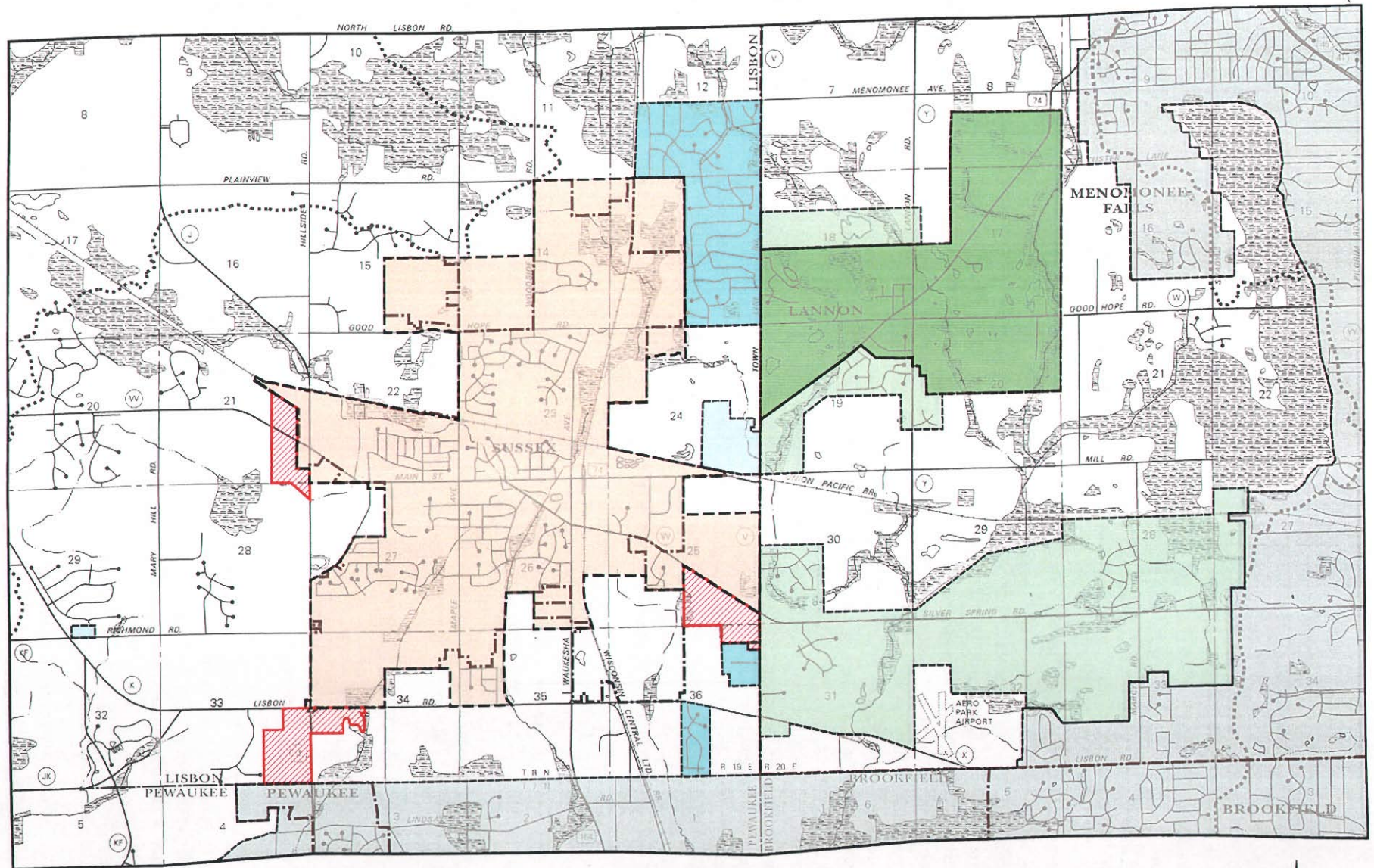
<sup>1</sup> See SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), Sanitary Sewer Service Area for the Village of Sussex, dated September 1994, as amended

Map 2

PLANNED SANITARY SEWER SERVICE AREAS TRIBUTARY TO THE SUSSEX SEWAGE TREATMENT PLANT

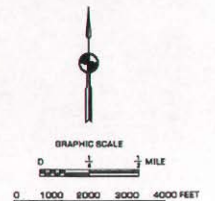
4

Source: SEWRPC.



LEGEND

- |                            |   |  |
|----------------------------|---|--|
| VILLAGE OF LANNON          | TOWN OF LISBON<br>SANITARY DISTRICT NO. 1                         | OTHER - SANITARY SEWER SERVICE AREAS TRIBUTARY TO FOX<br>RIVER POLLUTION CONTROL CENTER (BROOKFIELD) AND MILWAUKEE<br>METROPOLITAN SEWERAGE DISTRICT SEWAGE TREATMENT PLANTS |
| VILLAGE OF MENOMONEE FALLS | TOWN OF LISBON  |  |
| VILLAGE OF SUSSEX          | LANDS TO BE ADDED TO THE<br>SUSSEX SANITARY SEWER<br>SERVICE AREA |  |

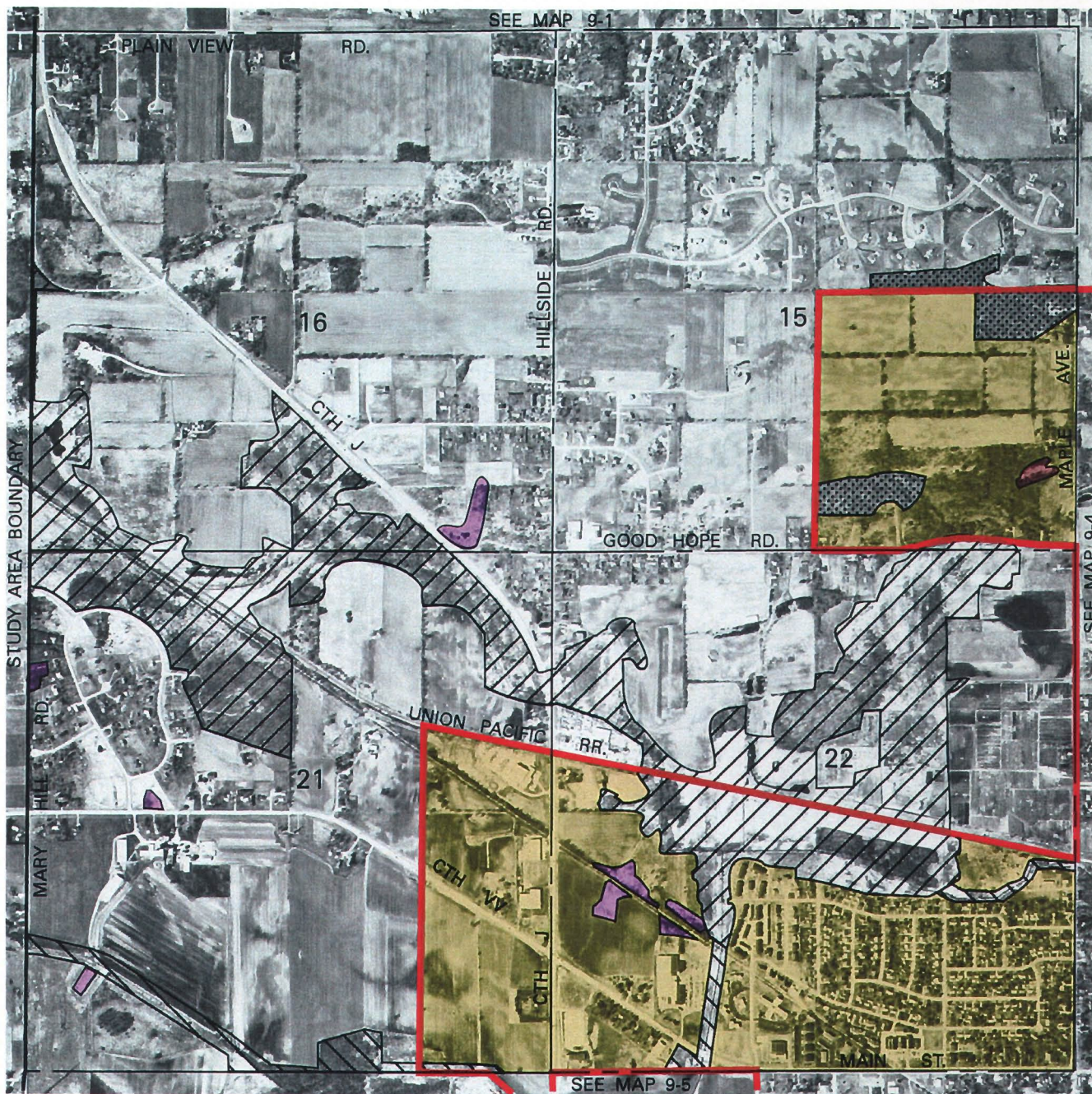








# Map 3



## ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE VILLAGE OF SUSSEX AND ENVIRONS

U. S. Public Land Survey Sections 15, 16, 21, and 22  
Township 8 North, Range 19 East



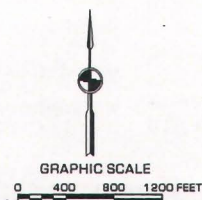
### LEGEND

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

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

NOTE: This map replaces Map 9-3, page 27, SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), Sanitary Sewer Service Area for the Village of Sussex, Waukesha County, Wisconsin, September 1994.

Source: SEWRPC.









# Map 4



## ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE VILLAGE OF SUSSEX AND ENVIRONS

U. S. Public Land Survey Sections 27, 28, 33, and 34  
Township 8 North, Range 19 East



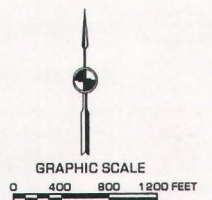
### LEGEND

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

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

NOTE: This map replaces Map 9-5, page 29, SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), Sanitary Sewer Service Area for the Village of Sussex, Waukesha County, Wisconsin, September 1994.

Source: SEWRPC.

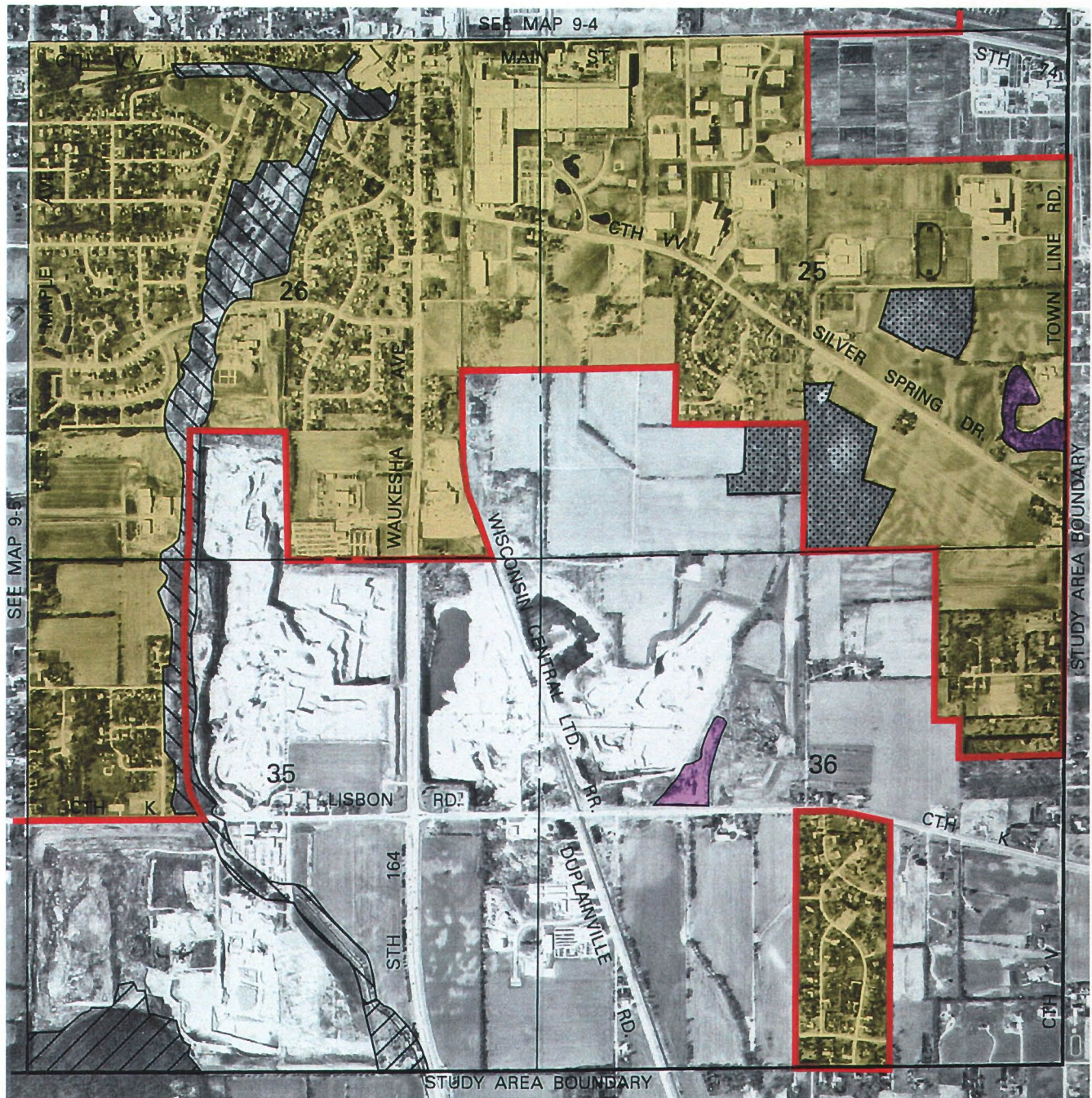








# Map 5



## ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE VILLAGE OF SUSSEX AND ENVIRONS

U. S. Public Land Survey Sections 25, 26, 35, and 36  
Township 8 North, Range 19 East



### LEGEND

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

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

NOTE: This map replaces Map 9-6, page 30, SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), Sanitary Sewer Service Area for the Village of Sussex, Waukesha County, Wisconsin, September 1994.

Source: SEWRPC.

