



Resolution CARPC No. 2017-03

**Recommending to the Wisconsin Department of Natural Resources Amendment of the
Dane County Water Quality Management Plan by Revising the
Sun Prairie Urban Service Area Boundary and Environmental Corridors in the Town of Burke**

WHEREAS, the Capital Area Regional Planning Commission (CARPC) is a duly created regional planning commission under Wis. Stat. § 66.0309; and

WHEREAS, the CARPC has an agreement with the Wisconsin Department of Natural Resources (WDNR) to provide water quality management planning assistance to the WDNR; and

WHEREAS, the CARPC has adopted, reaffirmed, and recommended amendment of the *Water Quality Management Plan for Dane County*; and

WHEREAS, said plan delineates urban and limited service areas and environmental corridors as amended through November 2016; and

WHEREAS, the City of Sun Prairie has requested an addition to the Sun Prairie Urban Service Area; and

WHEREAS, a staff analysis of the proposed amendment has been prepared, which indicates that the amendment is consistent with the water quality standards under Wis. Stat. § 281.15.

NOW, THEREFORE, BE IT RESOLVED that in accordance with Wis. Stat. § 66.0309, and Sec. 208 of Public Law 92-500, the Capital Area Regional Planning Commission recommends the amendment of the *Dane County Water Quality Management Plan* by revising the Sun Prairie Urban Service Area boundaries as shown on the attached map.

The recommendation for approval of this amendment is based on the City's submitted proposal and conditioned on the City of Sun Prairie's commitment to pursuing the following:

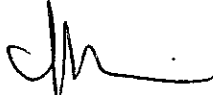
1. Submit a detailed stormwater management plan for CARPC staff review and approval (in conjunction with DCL&WCD staff) prior to any land disturbing activities in the amendment area. The stormwater management plan shall include the following:
 - a. Install stormwater and erosion control practices prior to other land disturbing activities. Protect infiltration practices from compaction and sedimentation during land disturbing activities.
 - b. Maintain peak runoff rate control for the 1-, 2- and 5- and 100-year, 24 hour design storms to "pre-development" peak runoff rates and limit peak runoff rates for the 10- and 25-year, 24 hour storms to the 5-year pre-development rate using NOAA Atlas 14 rainfall depths with an NRCS MSE4 storm distribution, in accordance with the Sun Prairie Stormwater Ordinance.
 - c. Maintain the post development stay-on volume to at least 90% of the pre-development stay-on volume for the one-year average annual rainfall period, in accordance with the Sun Prairie Stormwater Ordinance.

- d. Maintain pre-development groundwater recharge rates from the Wisconsin Geological and Natural History Survey's 2012 report, *Groundwater Recharge in Dane County, Wisconsin, Estimated by a GIS-Based Water-Balance Model* (an average of 9.3 in./yr. for the amendment area) or by a site specific analysis, in accordance with the Sun Prairie Stormwater Ordinance.
 - e. Provide at least 80% sediment control for the amendment area based on the average annual rainfall record, with a minimum of 60% of that control occurring in a retention pond prior to infiltration, in accordance with the Sun Prairie Stormwater Ordinance.
 - f. Treat the first 0.5 inch of runoff from parking lots to control oil and grease, in accordance with the Sun Prairie Stormwater Ordinance.
2. Require easements and perpetual legal maintenance agreements allow the City to maintain the stormwater management facilities if the property owner fails to do so.
 3. Designate the delineated wetlands with a 75-foot buffer and all adjacent stormwater management facilities as environmental corridors.
 4. Demonstrate avoidance and reduction of wetland impacts to the extent possible, in accordance with NR 103 and NR 117. This includes reducing the street cross-section of the new access street to eliminate space for on-street parking on one or both sides, as recommended by the Madison Area Transportation Planning Board staff, rather than omitting the sidewalk from one side. This will better meet the goal of reducing the environmental impact of the transportation system, while also improving safety for all users by adding the sidewalk on the north side of the street.

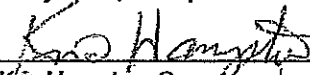
It is also recommended that the City of Sun Prairie consider pursuing the following measures:

1. Require an archaeological survey be performed by a qualified archaeologist of the area near the wetlands on the east side of the amendment area as recommended by the Wisconsin Historical Society.
2. Develop and implement a wetland restoration plan for the wetlands on the site to create a natural amenity for the development and the community.
3. Develop and implement a water loss control plan to reduce the amount of groundwater pumping and water distribution necessary to serve the community.
4. Amend the City's stormwater ordinance to require maintaining 100% of the pre-development stay-on volume for the one-year average annual rainfall period, as a means of contributing to a reduced potential for downstream flooding. This standard has been adopted in the Village of Cross Plains, Village of DeForest, and Town of Westport and is being considered by a joint Technical Advisory Committee of CARPC and the Dane County Lakes and Watersheds Commission. The effectiveness of this approach will ultimately depend on the collaboration of other municipalities within the watershed to adopt the same standard.
5. Attempt to work with the drainage district and downstream property owners to examine the concern of flooding potentially related to the wastewater treatment plant discharge.

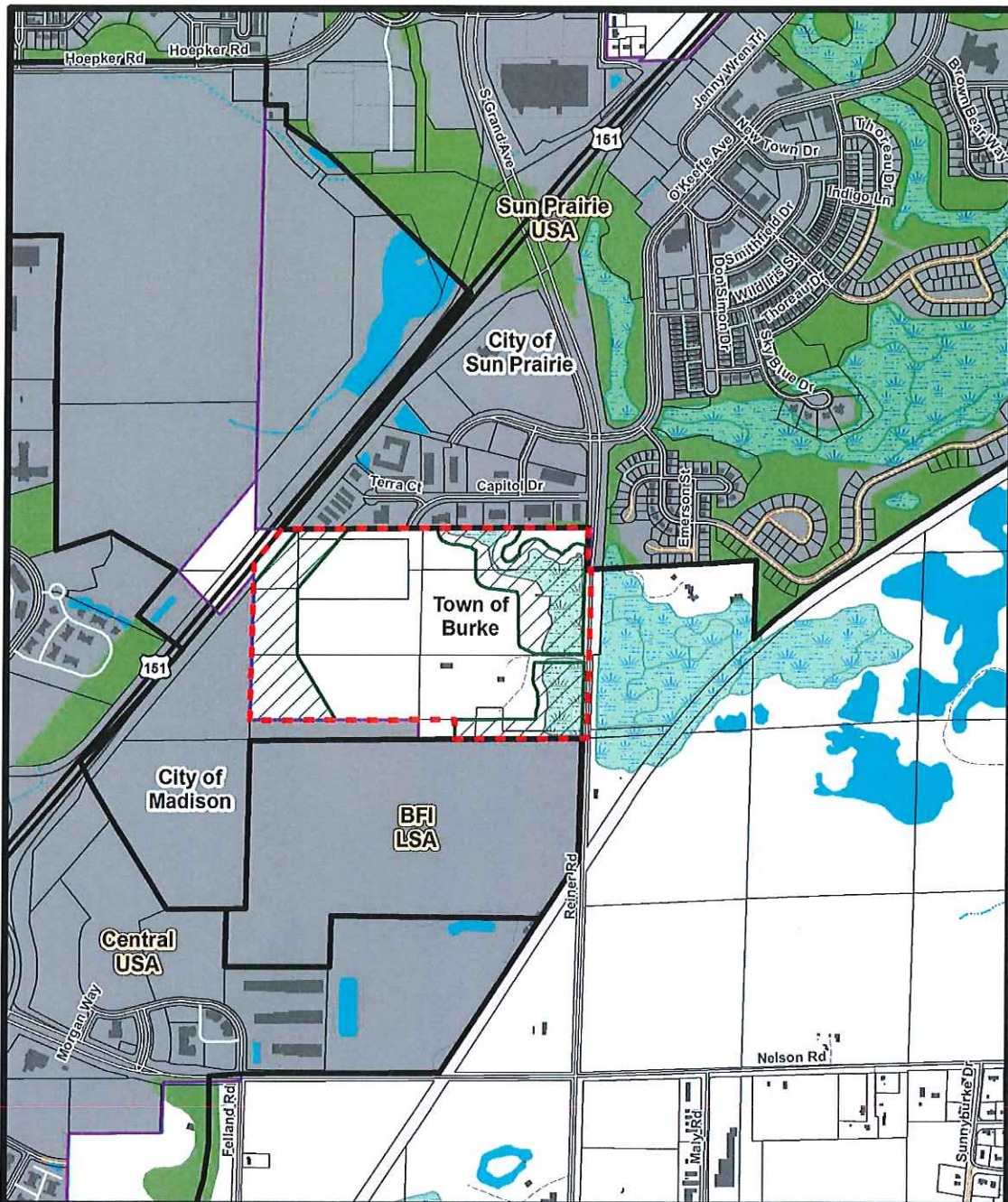
March 9, 2017
Date Adopted



Larry Palm, Chairperson



Kris Hampton, Secretary



Map 1 Amendment Area
 Proposed Amendment to the
 Dane County Water Quality Plan, Revising
 the Sun Prairie Urban Service Area Boundary
 and Environmental Corridors
 in the Town of Burke

- Incorporated Area
- Service Area to be Added (94.7 acres)
- Existing Service Area
- Environmental Corridor to be Added (35.9 acres)
- Wetland Delineation JSD 11/03/2016
- Existing Environmental Corridors

Date: 02/03/2017

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 Prepared by staff
 of the CARPC.