



May 31, 2023

DNR No. DC0223

Mr. Mike Rupiper, Deputy Agency Director  
Capital Area Regional Planning Commission  
100 State Street; Suite 400  
Madison, WI 53703

Subject: [CARPC Sewer Service Area Plan Amendment Request #2302 for Waunakee USA](#)

Dear Mr. Rupiper:

On March 14, 2023, the Wisconsin Department of Natural Resources (DNR) received the proposed Sewer Service Area (SSA) Plan Amendment Request #2302 from the Capital Area Regional Planning Commission (CARPC) for the Village of Waunakee.

#### Amendment Area

The Village of Waunakee has submitted a request for a sewer service area amendment to the Dane County Water Quality Plan. The proposed amendment is currently in the Town of Westport, west of Highway Q/South Century Avenue and south of Woodland Drive and the Waunakee Intermediate School. The amendment area is contiguous along two sides of the existing sewer service area (SSA), the amendment area will be a continuation of the Kilkenny Farms-West development. The proposed amendment area is in the Sixmile Creek (HUC 12: 070900020602) watershed. The SSA Plan Amendment includes the addition of approximately 40 acres of land, including approximately 16 acres of proposed environmental corridors for a net of approximately 24 developable acres to the Waunakee Urban Service Area.

#### Environmentally Sensitive Areas and Water Quality Concerns

The proposed amendment area includes approximately 16 acres of Environmental Corridor, including a delineated wetland with associated buffer, proposed stormwater management areas, and proposed open space. A wetland delineation conducted in 2022 determined there was one, 10-acres sedge/wet meadow wetland within the amendment area. This wetland, including a minimum 75' buffer, is required to be designated as environmental corridor. There are 14.5 acres within the proposed amendment area mapped as Protection Area for the delineated wetland and its required vegetative buffer. The proposed amendment area contains 1.6 acres mapped as Stewardship Area, of which 0.3 acres are proposed to be designated as Environmental Corridor by this amendment. Inclusion of these areas are in accordance with the Environmental Corridor Policies and Criteria adopted in the *Dane County Water Quality Plan*.

A detailed stormwater management plan for the amendment area has not been prepared yet, however the Village's application includes a conceptual layout of proposed stormwater management locations which includes a series of stormwater basins across the amendment area. The post-development drainage

conditions generally match the predevelopment conditions. The application states that all requirements for water quality treatment, volume control and infiltration, and peak flow attenuation will be met. The proposed stormwater management facilities are anticipated to be located within public out lots and will ultimately be owned and maintained by the Village. There are no anticipated impacts to the downstream drainage patterns.

#### Wastewater Collection and Treatment System

The amendment area will be provided sewer service by connection to the Village's existing sanitary sewer collection system. Within the amendment area, the proposed lots will be served by 8-inch and 12-inch sanitary sewer main and individual sewer laterals. The amendment area and a portion of the currently planned Kilkenny Farms-West development (within the existing Waunakee Urban Service Area) will gravity drain via a 12-inch interceptor sewer main to a local pump station within the amendment area, then be pumped to existing sanitary sewer within CTH Q via force main, eventually reaching the Village's Ashlawn Pumping Station (Ashlawn PS). Downstream of the Ashlawn PS, wastewater flows within a Village-owned 12-inch interceptor to the Madison Metropolitan Sewerage District system (MMSD). The amendment area proposed development will consist of approximately 59 single-family residential units, assuming 2.75 persons per unit, contributing to wastewater flows. The Village estimates the amendment area will generate an annual average of 12,980 gallons per day (gpd) or 9 gallons per minute (gpm) of wastewater. The Village also estimates infiltration and inflow will contribute an additional 105 gpd/ac and 232 gpd/ac, respectively. The peak daily loading is anticipated to be approximately 65,434 gpd or 45 gpm, this assumes a peaking factor of 4 for the residential loading and includes infiltration and inflow. The proposed 8-inch and 12-inch sanitary sewer mains, based on the minimum allowable design slope in NR 110, are anticipated to have a maximum capacity of 332 gpm and 714 gpm, respectively. The proposed 8-inch and 12-inch sanitary sewers will provide sufficient capacity for the anticipated daily peak flows from the amendment area. The receiving interceptor and Ashlawn PS have sufficient capacity for the anticipated daily peak flows from the amendment area. Madison Metropolitan Sanitary District (MMSD) will provide wastewater treatment at the Nine Springs Wastewater Treatment Facility (WWTF). In 2021 the facility received an average monthly influent hydraulic loading of 36.4 MGD, this is about 65% of the design capacity. MMSD did not have issues meeting its WPDES permit limits. MMSD has sufficient capacity to treat the wastewater generated from the amendment area.

#### Local Review & Public Involvement

The amendment was reviewed by CARPC technical staff; [the report indicates that the amendment](#) is consistent with water quality standards under Wis. Stat. § 281.15, and the adopted Policies and Criteria for the Review of Sewer Service Area Amendments to the Dane County Water Quality Plan, by meeting state and local requirements and agreements identified below. Additional actions have also been recommended below to further improve water quality and environmental resource management.

A public hearing was held on the proposed amendment at the April 13, 2023, meeting of the Capital Area Regional Planning Commission. The Village of Waunakee Community Development Director, consulting engineer for the village, and the engineering consultant for the proposed development gave an overview and spoke in favor of the amendment. There were no comments from the public and no registrants opposed to the amendment. The meeting audio and video can be found on the [CARPC website](#). At the May 11, 2023 RPC meeting, CARPC voted to recommend approval of this amendment to WDNR based on the land uses and services proposed, and in recognition of the state and local requirements ([see CARPC WQM Letter](#)) for the following:

1. State and local review and approval of stormwater management plan(s) is required, including Regional Planning Commission staff review and approval as part of the sewer extension review process.

a. Stormwater and erosion control practices are required to be installed prior to other land disturbing activities. Infiltration practices are required to be protected from compaction and sedimentation during land disturbing activities

b. Peak rates of runoff are required to be controlled for the 1-, 2-, 10-, 100-, and 200-year 24-hour design storms to “pre-development” levels, in accordance with the Village of Waunakee and Dane County Stormwater Ordinances.

c. Sediment control is required that achieves at least 80% sediment control for the amendment area based on the average annual rainfall, with a minimum of 60% of that control occurring prior to infiltration (for residential land uses), in accordance with the Village of Waunakee and Dane County Stormwater Ordinances.

d. Runoff volume control is required that maintains the post development stay-on volume to at least 90% of the pre-development stay-on volume for the average annual rainfall period, in accordance with the Village of Waunakee and Dane County Stormwater Ordinances.

e. Maintaining 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 (a range of 9 to 10 inches/year) for the amendment area or by a site-specific analysis, when required by the Village of Waunakee and Dane County Stormwater Ordinances.

2. Easements and perpetual legal maintenance agreements with the Village, to allow the Village to maintain stormwater management facilities if owners fail to do so, are required for any facilities located on private property.

3. Environmental corridors are required to be delineated to meet the Environmental Corridor Policies and Criteria adopted in the Dane County Water Quality Plan.

CARPC also recommends that the Village of Waunakee pursue the following to further improve water quality and environmental resource management:

- Continue to participate in regional water quality initiatives including Wisconsin Salt Wise, the Madison Area Municipal Storm Water Partnership, and Yahara WINs.
- Require an archaeological survey be performed by a qualified archaeologist for the amendment area as recommended by the Wisconsin Historical Society and take necessary protection measures if artifacts are found.

Administrative Decision

The Department finds the proposed amendment is consistent with adopted policies and procedures of the Areawide Water Quality Management Plan under NR121 and section 283.83, Wis. Stats. Additionally, the proposed amendment is consistent with water quality standards under section 281.15, Wis. Stats., and is hereby approved with considerations recommended by CARPC in their May 2023 transmittal letter, 2302 ([see CARPC WQM Letter](#)).

#### Statewide AWQM Plan Amendment

This amendment is a formal update to the state's Areawide Water Quality Management Plan and the Dane County Water Quality Plan and will be forwarded to the US Environmental Protection Agency to meet the requirements of the Clean Water Act of 1987 (Public Law 92-500 as amended by Public Law 95-217) and outlined in the federal regulations 40 CFR, Part 35. This review is an integrated analysis action under s. NR 150.20 (2) (a) 3, Wis. Adm. Code. By means of this review, the Department has complied with Ch. NR 150, Wis. Adm. Code, and with s. 1.11, Wis. Stats. The approval of this sewer service area amendment does not constitute approval of any other local, state, or federal permit that may be required for sewer construction or associated land development activities. The Village of Waunakee, consultants, and contractor should be aware of potential regulations and jurisdictional activities related to DNR program permitting, including but not limited to Ch. 30 waterway, wetlands, and stormwater.

#### Appeal Rights:

Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., a party has 30 days after the decision is mailed, or otherwise served by the department, to file a petition with the appropriate circuit court and serve the petition on the department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to section 227.42, Wis. Stats., a party has 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with section NR 2.05(5), Wis. Adm. Code, and served on the Secretary in accordance with section NR 2.03, Wis. Adm. Code. The filing of a request for a contested case hearing does not extend the 30-day period for filing a petition for judicial review.

Sincerely,



Tim Asplund  
Monitoring Section Chief  
Bureau of Water Quality

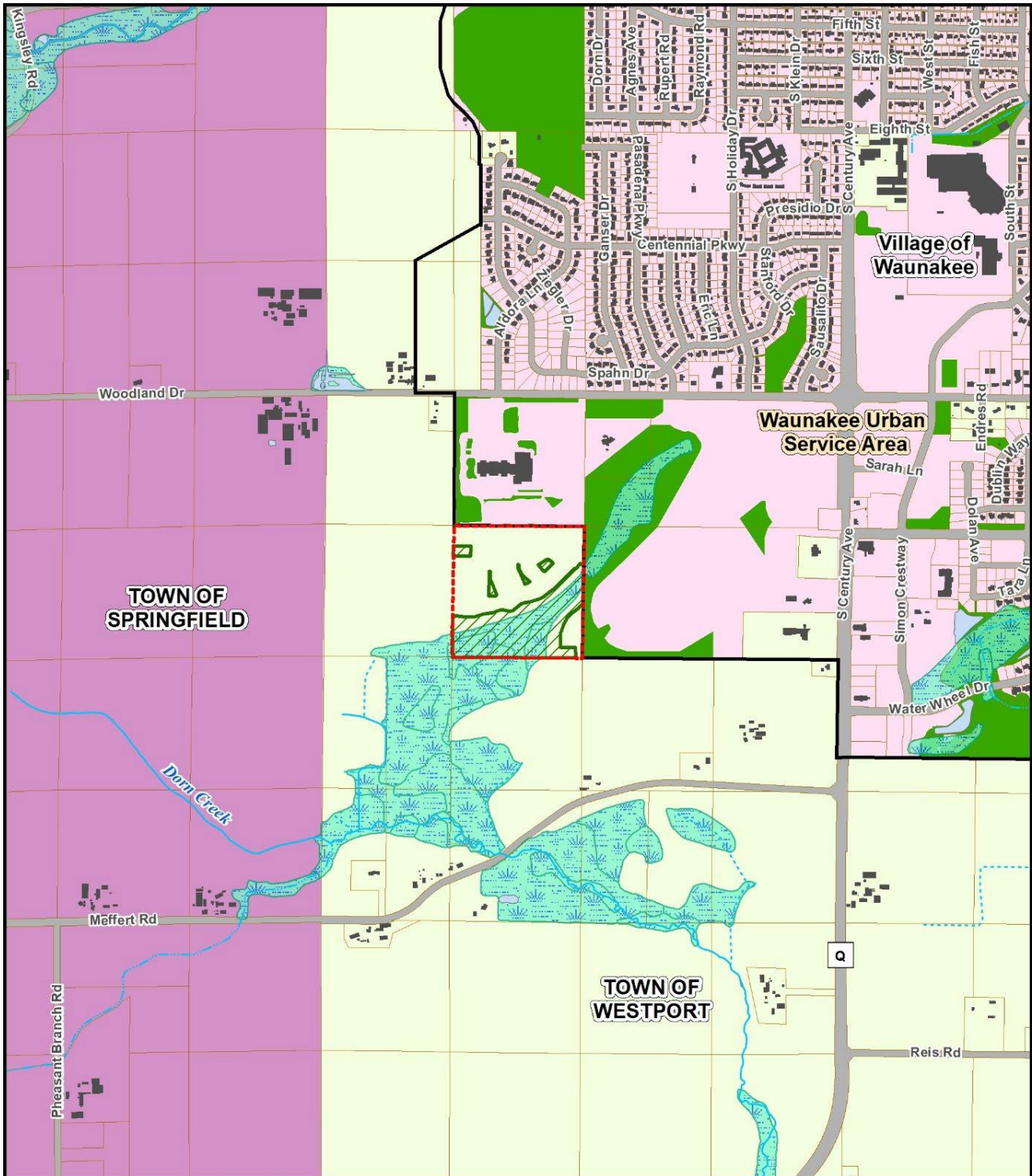


for  
Jason Knutson, P.E.  
Wastewater Section Chief  
Bureau of Water Quality


e-cc:

BetsyJo Howe – Water Resources Management Specialist, DNR Madison  
Gunilla Goulding, P.E. – Wastewater Engineer, DNR Madison

Sawyer Dobson – Wastewater Engineer, DNR Madison  
Tom Bauman – Wastewater Field Supervisor, DNR Fitchburg  
Mike Sorge – Water Quality Field Supervisor, DNR Fitchburg  
Eric Rortvedt – Water Resources Engineer, DNR Fitchburg  
Weston Matthews – Water Reg/Zoning Specialist, DNR Dodgeville



**Map 1 Amendment Area**  
 Proposed Amendment to the Dane County Water Quality Plan, Revising the Sewer Service Area Boundary and Environmental Corridors in the Waunakee Urban Service Area

-  Existing Service Area
-  Service Area To Be Added
-  Existing Environmental Corridors
-  Environmental Corridor To Be Added

Date: 04/19/2023

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