

TO: MAYOR AND CITY COUNCIL

FROM: JON RADERMACHER, City Administrator

SUBJECT: Final Order Cannon Falls Industrial Development Alternative Urban Areawide Review (AUAR)

MEETING DATE: April 15, 2025

BACKGROUND

The City of Cannon Falls assumed the Responsible Government Unit (RGU) over the potential 253 acres development site adjacent and planned to be annexed into the City of Cannon Falls. The project is considering the construction of a light industrial or technology park by a developer, and based on the nature of the development an AUAR is required. The first part of the AUAR process was the creation and review of the Scoping Document, which is used to determine what the AUAR will study. The Scoping Document was submitted to the MN Environmental Quality Board (EQB) on March 4, 2025 and concluded the 30-day comment period on April 4, 2025. The comments that were received are included in the Final Order submittal.

The AUAR will identify potential impacts in the development based on the maximum potential use, provide analysis and guidance to mitigate those impacts.

Issuing the Final Order will start that AUAR study process, where the items included in the scoping document will be studied and reviewed, and an additional comment period, review period and objection period will take place before the final AUAR is complete and presented to the City for adoption, sometime later this summer.

Once adopted and accepted by the stakeholders, the AUAR is effective for potential development for 5 years.

STAFF RECOMMENDATION

Approve the final order of the AUAR.

REQUESTED COUNCIL ACTION

Approve the final order of the AUAR.

TO: Interested Parties (Including Minnesota Environmental Quality Board Distribution List)

FROM: Jon Radermacher
City Administrator
City of Cannon Falls

DATE: April 15, 2025

SUBJECT: Final Order for the Cannon Falls Industrial Development Alternative Urban Areawide Review (AUAR)

As the Responsible Governmental Unit (RGU), the City of Cannon Falls has determined that an Alternative Urban Areawide Review (AUAR) is required for the proposed Cannon Falls Industrial Area. The Scenarios studied in the AUAR exceed the threshold for a mandatory EIS under MN Rules 4410.4400 Subp. 11. This allows the City to pursue an AUAR in accordance with Minnesota Rule 4410.3610.

The notice of availability of the Draft AUAR Order and Scoping Document was published in the Minnesota Environmental Quality Board's *EQB Monitor* on March 4, 2025. The Scoping Document, included as Attachment A, was available for review and comment as part of the AUAR process as described in Minnesota Rules, part 4410.3610, subpart 5a. The 30-day comment period began on March 4, 2025, and closed at 4:00 PM on April 3, 2025.

During the public comment period, comments were received from three government and regional agencies. One public comment was received. The comment letters received are included in Attachment B.

Pursuant to Minnesota Rules, part 4410.3610, subpart 5a(C), the purpose of the comments on a Scoping Document for an AUAR is to suggest additional development scenarios and relevant issues to be analyzed in the review.

The AUAR Study Area has been adjusted slightly from the draft order to align with the area to be purchased by the project proposer. The revised AUAR Study area is shown in Figure 1. The Scenarios studied as part of the AUAR have also been adjusted slightly to align with the potential maximum density of development for the proposed study area. The revised scenarios to be studied in the AUAR are documented in Table 1 below. These slight modifications have been updated in the Scoping document included in Attachment A.

[AUAR Study Area](#)

The AUAR study area encompasses an area totaling approximately 253 acres on 5 parcels in the City of Cannon Falls and Randolph Township, Goodhue and Dakota Counties, Minnesota. (shown on Figure 1).

Development Scenarios

Two development scenarios, defined in Table 1 and shown on Figures 2 and 3, are proposed to be evaluated in the AUAR.

Table 1: AUAR Development Scenarios

Component	Scenario 1	Scenario 2
Industrial (square feet)	1,750,000	-
Technology Park (square feet)	-	1,750,000
Total (square feet)	1,750,000	1,750,000
Total Project Area	253 acres	253 acres

Figure 1: AUAR Study Area



Figure 2: AUAR Study Area – Scenario 1

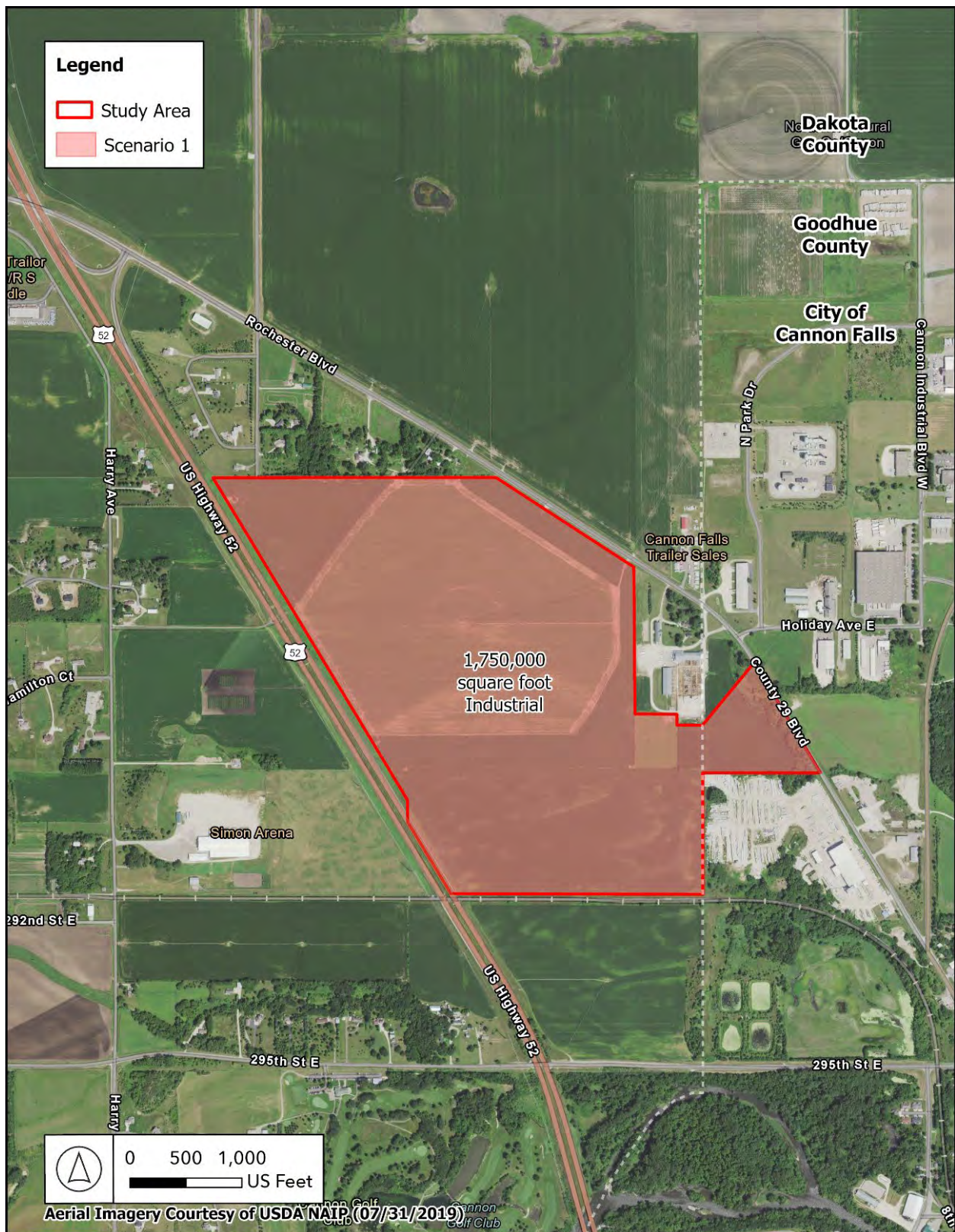


Figure 3: AUAR Study Area – Scenario 2

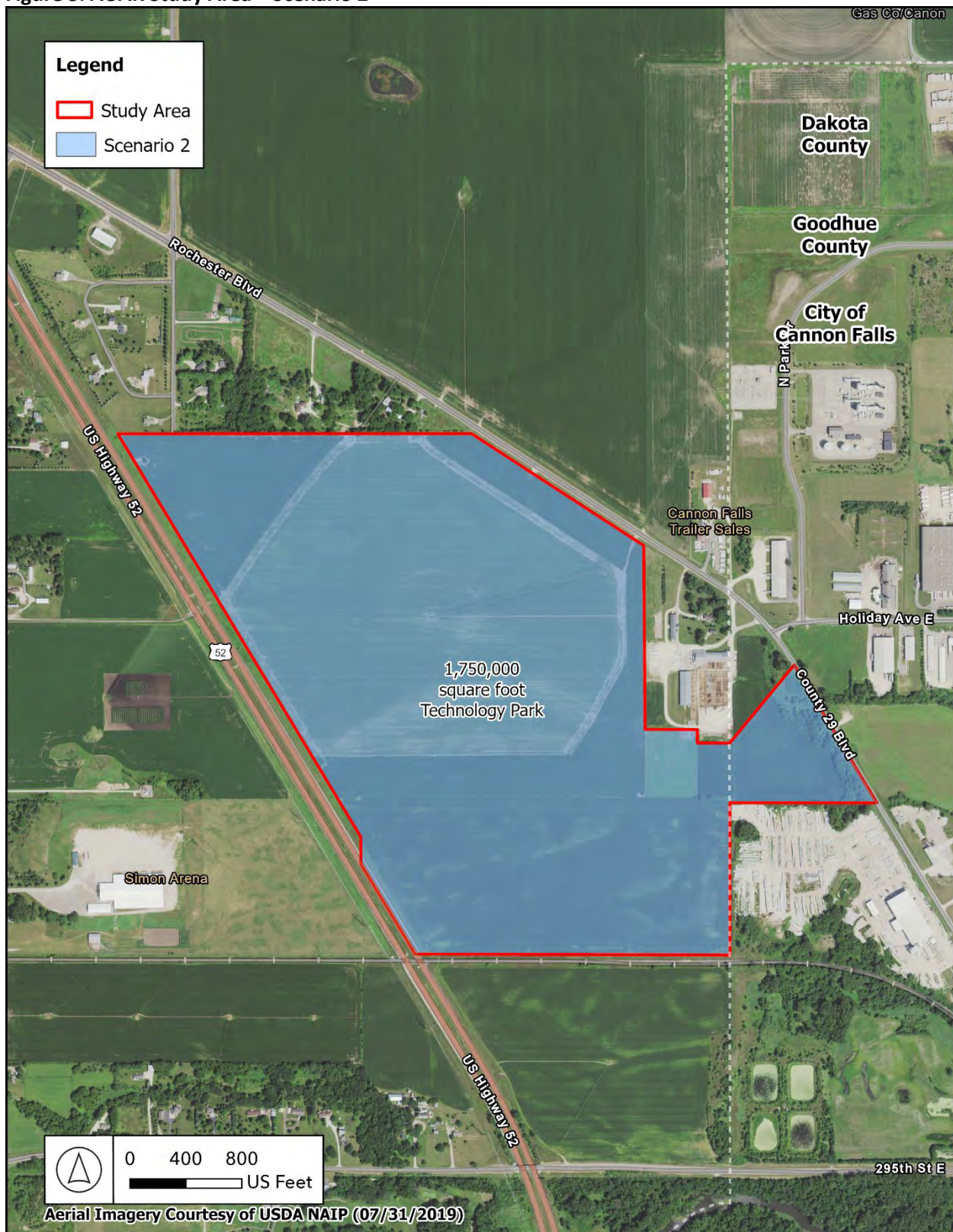


Figure 4 AUAR Study Area – Scenario 3

Attachment A

Cannon Falls Industrial AUAR

SCOPING DOCUMENT

APRIL 2025

PREPARED FOR:



PREPARED BY:

Kimley»Horn

Table of Contents

1. Project Title	1
2. Proposer	1
3. RGU	1
4. Reason for Preparation	2
5. Project Location	2
6. Project Description	4
7. Climate Adaption and Resilience	8
8. Cover Types	10
9. Permits and Approvals Required	12
10. Land Use	13
11. Geology, Soils, and Topography/Landforms	22
12. Water Resources	28
13. Contamination/Hazardous Materials/Wastes	38
14. Fish, Wildlife, Plant Communities, and Sensitive Ecological Resources (Rare Features)	39
15. Historic Properties	42
16. Visual	43
17. Air	43
18. Greenhouse Gas (GHG) Emissions/Carbon Footprint	44
19. Noise	46
20. Transportation	47
21. Cumulative Potential Effects	50
22. Other Potential Environmental Effects	51

List of Tables

Table 1: Development Scenarios	5
Table 2: Climate Considerations and Adaptions	8
Table 3: Existing Cover Types	10
Table 4: Anticipated Permits and Approvals	12
Table 5: Study Area Future Land Use Designations Purpose and Allowed Uses	14
Table 6: Soil Types	23

List of Figures

Figure 1: USGS Map	2
Figure 2: AUAR Study Area	3
Figure 3: Development Scenario 1 – Light Industrial	6
Figure 4: Development Scenario 2 – Technology Park	7
Figure 5: Cover Types	11

Cannon Falls Industrial AUAR – Scoping Document

Figure 6: Existing Land Use	19
Figure 7: Existing Zoning	20
Figure 8: Future Land Use	21
Figure 9: Soil Types	25
Figure 10: Delineated Wetlands	30
Figure 11: Surface Water Resources	31
Figure 12: Groundwater Resources	33
Figure 13: Traffic Study Intersections	49

Scoping Document

This EAW form is being used to delineate the issues and analyses to be reviewed in an Alternative Urban Areawide Review (AUAR). Where the AUAR guidance provided by the Minnesota Environmental Quality Board (EQB) indicates that an AUAR response should differ notably from what is required for an EAW, the guidance is noted in *italics*.

Note to reviewers: Comments must be submitted to the Responsible Governmental Unit (RGU) during the 30-day comment period following notice of the Scoping Document in the *EQB Monitor*.

1. PROJECT TITLE

Cannon Falls Industrial

2. PROPOSER

Proposer: MNLCO Dakota County Two, LLC & MNLCO Dakota County Three, LLC

Contact Person: Kristin Dean

Address: 3300 E 1st Ave Ste 600

City, State, ZIP: Denver, CO 80206

Phone: 303-276-7950

Email: kristin.dean@tract.com

3. RGU

RGU: City of Cannon Falls

Contact Person: Jon Radermacher

Title: City Administrator

Address: 918 River Road

City, State, ZIP: Cannon Falls, MN 55009

Phone: 507-263-9304

Email: cityadmin@cannonfallsmn.gov

4. REASON FOR PREPARATION

The Scenarios studied in the AUAR exceed the threshold for a mandatory EIS under MN Rules 4410.4400 Subp. 11. This allows the City to pursue an AUAR in accordance with Minnesota Rule 4410.3610.

5. PROJECT LOCATION

County: Dakota and Goodhue

City/Township: Cannon Falls and Randolph Township

PLS Location (¼, ¼, Section, Township, Range): Section 1, Township 112N, Range 18W and Section 6 Township 112N, Range 17W

Watershed (81 major watershed scale): Cannon River

Tax Parcel: 310010051010, 310010085010, 310010090011, 310120001012, 525100100

At a minimum, attach each of the following to the AUAR:

- **US Geological Survey 7.5 minute, 1:24,000 scale map indicating project boundaries** (see **Figure 1**)
- **Map depicting the boundaries of the AUAR and any subdistricts used in the AUAR analysis** (see **Figure 2** through **Figure 4**)
- List of data sources, models, and other resources (from the Item-by-Item Guidance: Climate Adaptation and Resilience or other) used for information about current Minnesota climate trends and how climate change is anticipated to affect the general location of the project during the life of the project (as detailed below in Item 7)
- **Cover type map as required for Item 8** (see **Figure 5**)
- **Land use and planning maps as required in conjunction with Item 10** (see **Figure 6** and **Figure 7**)

Figure 1: USGS Map

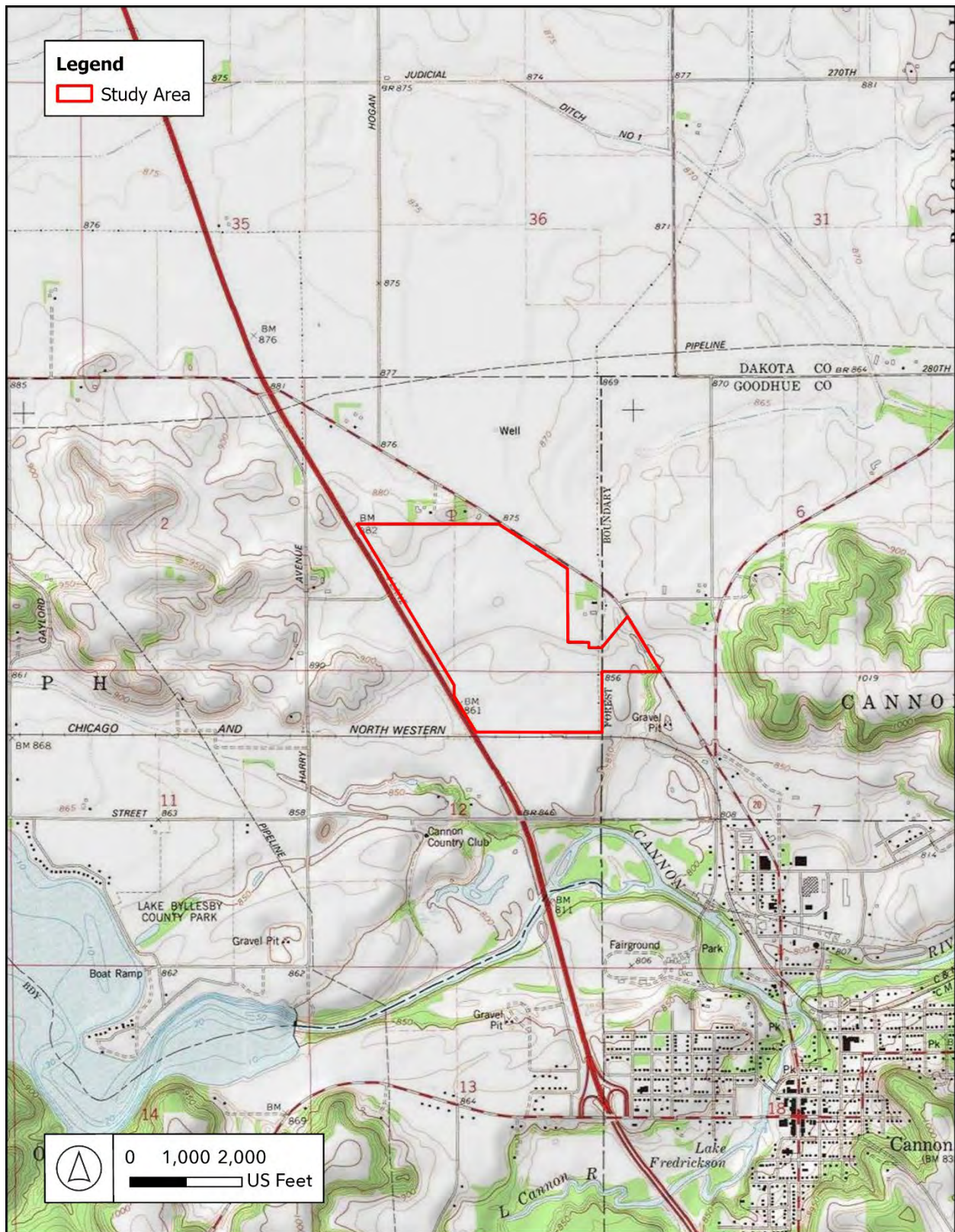


Figure 2: AUAR Study Area



6. PROJECT DESCRIPTION

AUAR Guidance: Instead of the information called for on the EAW form, the description section of an AUAR should include the following elements for each major development scenario included:

- *Anticipated types and intensity (density) of residential and commercial/warehouse/light industrial development throughout the AUAR area.*
- *Infrastructure planned to serve development (roads, sewers, water, stormwater system, etc.). Roadways intended primarily to serve as adjoining land uses within an AUAR area are normally expected to be reviewed as part of an AUAR. More “arterial” types of roadways that would cross an AUAR area are an optional inclusion in the AUAR analysis; if they are included, a more intensive level of review, generally including an analysis of alternative routes, is necessary.*
- *Information about the anticipated staging of various developments, to the extent known, and of the infrastructure, and how the infrastructure staging will influence the development schedule.*

The AUAR study area encompasses an area totaling approximately 253 acres on 5 parcels in the City of Cannon Falls and Randolph Township, Goodhue and Dakota Counties, Minnesota (shown on Figure 2). MNLCO Dakota County Two, LLC & MNLCO Dakota County Three, LLC is proposing to develop the study area from existing farmland to industrial or technology park uses. Upon approval, the portion of the study area currently in Randolph Township will be annexed into the City of Cannon Falls; refer to Table 4 for required permits and approvals.

Two scenarios are proposed for evaluation in the AUAR as outlined in Table 1. Scenario 1 includes multiple buildings for a total of 1,750,000 square feet of a proposed industrial development (see Figure 3). Scenario 2 includes multiple buildings for a total of 1,750,000 square feet of technology park (see Figure 4). The proposed development within the AUAR study area is anticipated to begin construction in 2026. A general development timeline and potential phasing will be discussed in the AUAR.

The intent of the AUAR is to recognize the maximum build for the study area and identify impacts and mitigation measures that may be taken to compensate for those impacts. Development of the study area would include new infrastructure, including water service, sewer, stormwater, streets, and utilities. All new services would be extensions to existing infrastructure or upgrades to existing systems to support the new development.

A more detailed discussion of infrastructure needs, including water service, sanitary sewer connections, stormwater management, will be included in the AUAR.

Cannon Falls Industrial AUAR – Scoping Document

Table 1: Development Scenarios

Component	Scenario 1	Scenario 2
Industrial (square feet)	1,750,000	-
Technology Park (square feet)	-	1,750,000
Total (square feet)	1,750,000	1,750,000
Total Project Area	253 acres	253 acres

Figure 3: Development Scenario 1 – Light Industrial

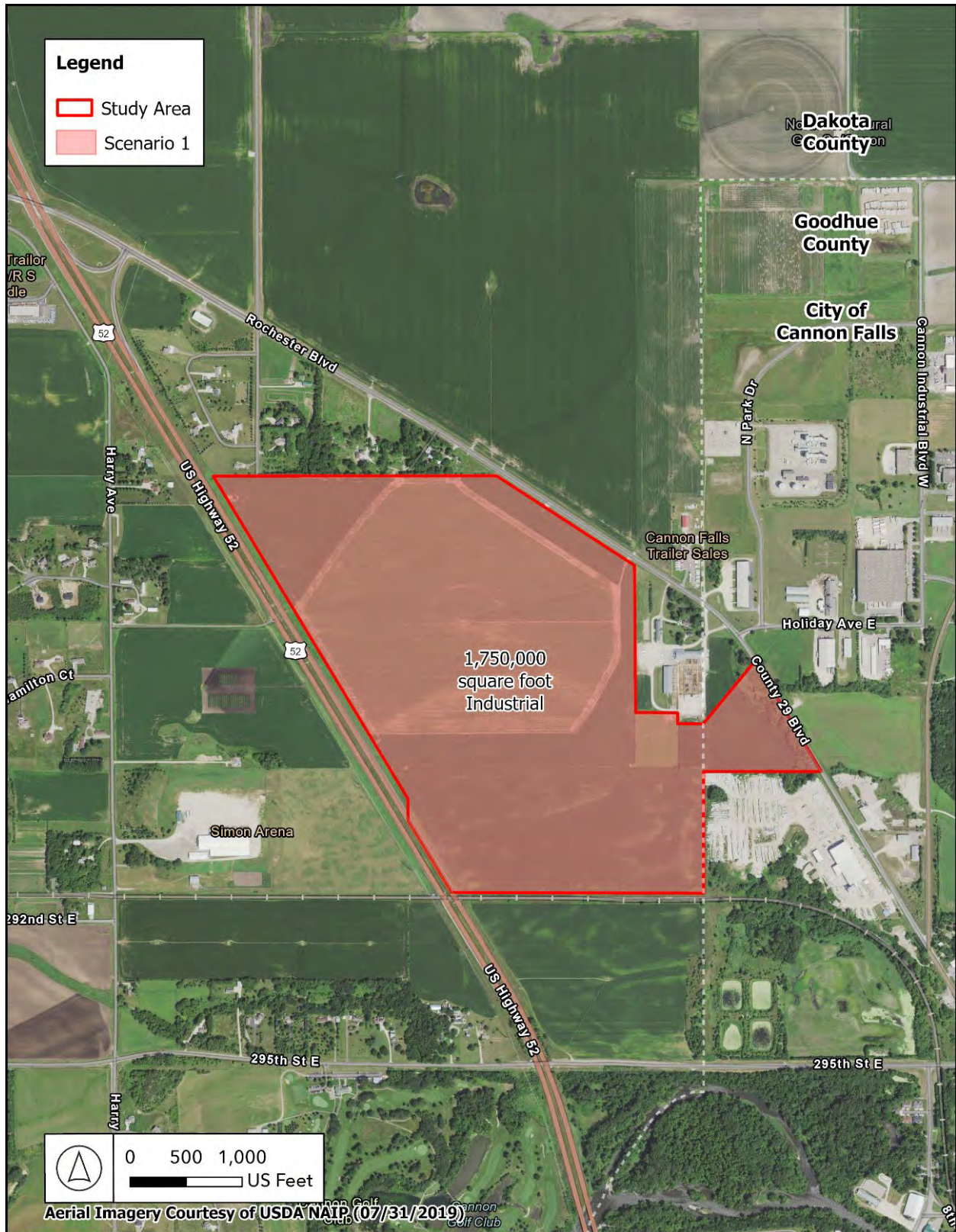
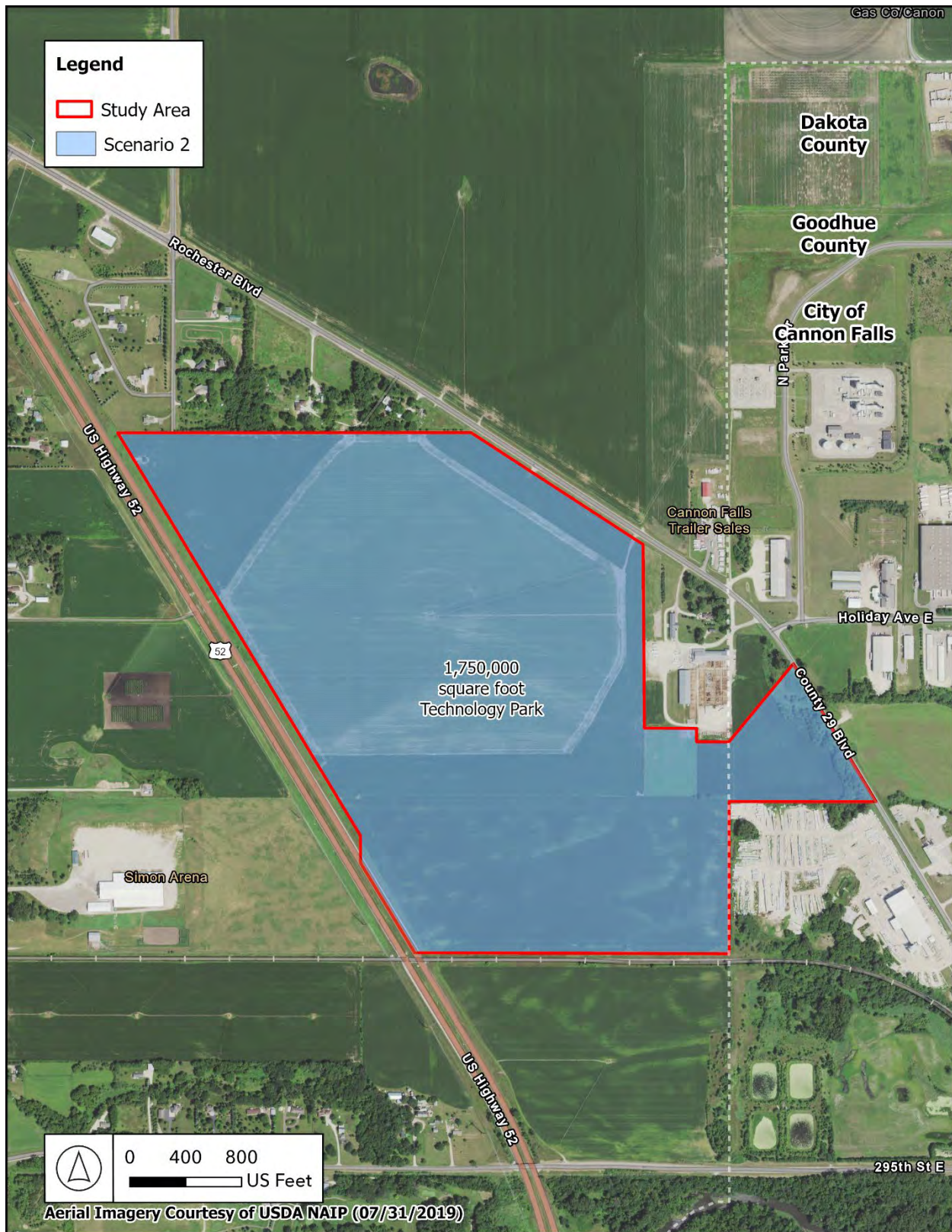


Figure 4: Development Scenario 2 – Technology Park



7. CLIMATE ADAPTION AND RESILIENCE

- a. Describe the climate trends in the general location of the project (see guidance: *Climate Adaptation and Resilience*) and how climate change is anticipated to affect that location during the life of the project.

The AUAR will describe trends in temperature, urban heat island, precipitation, flood risk, and cooling degree days for the general project location. Climate projections will use Representative Concentration Pathways (RCPs), which are greenhouse gas concentration scenarios used by the Intergovernmental Panel on Climate Change. RCP 4.5 is an intermediate scenario in which emissions decline after peaking around 2040, and RCP 8.5 is a worst-case scenario in which emissions continue to rise through the 21st century.¹

- b. For each resource category in the table below, describe the project’s proposed activities and how the project’s design will interact with those climate trends. Describe proposed adaptations to address the project effects identified.

Table 2: Climate Considerations and Adaptions

Resource Category	Climate Considerations	Project Information	
		Climate Change Risks and Vulnerabilities	Adaptions
Project Design	The AUAR will discuss aspects of building architecture/ materials choices and site design that could impact climate.	To be discussed in AUAR, Section 6 and 18	To be discussed in AUAR, Section 6 and 18
Land Use	The AUAR will discuss critical facilities and flood risk.	To be discussed in AUAR, Section 10 and 12	To be discussed in AUAR
Water Resources	The AUAR will discuss current Minnesota climate trends and anticipated climate change in the general location of the project and how that may influence water resources.	To be discussed in AUAR, Section 12	To be discussed in AUAR

¹ Climate Explorer Metadata. Available at <https://www.dnr.state.mn.us/climate/climate-explorer-metadata.html>.

Resource Category	Climate Considerations	Project Information	
		Climate Change Risks and Vulnerabilities	Adaptions
Contamination/ Hazardous Materials/ Wastes	The AUAR will discuss current Minnesota climate trends and anticipated climate change in the general location of the project and how that may influence the potential environmental effects of generation/use/storage of hazardous waste and materials.	To be discussed in AUAR, Section 13	To be discussed in AUAR
Fish, Wildlife, Plant Communities, and Sensitive Ecological Resources (Rare Features)	The AUAR will discuss current Minnesota climate trends and anticipated climate change in the general location of the project how that may influence the local species and suitable habitat.	To be discussed in AUAR Section 14	To be discussed in AUAR

8. COVER TYPES

AUAR Guidance: The following information should be provided:

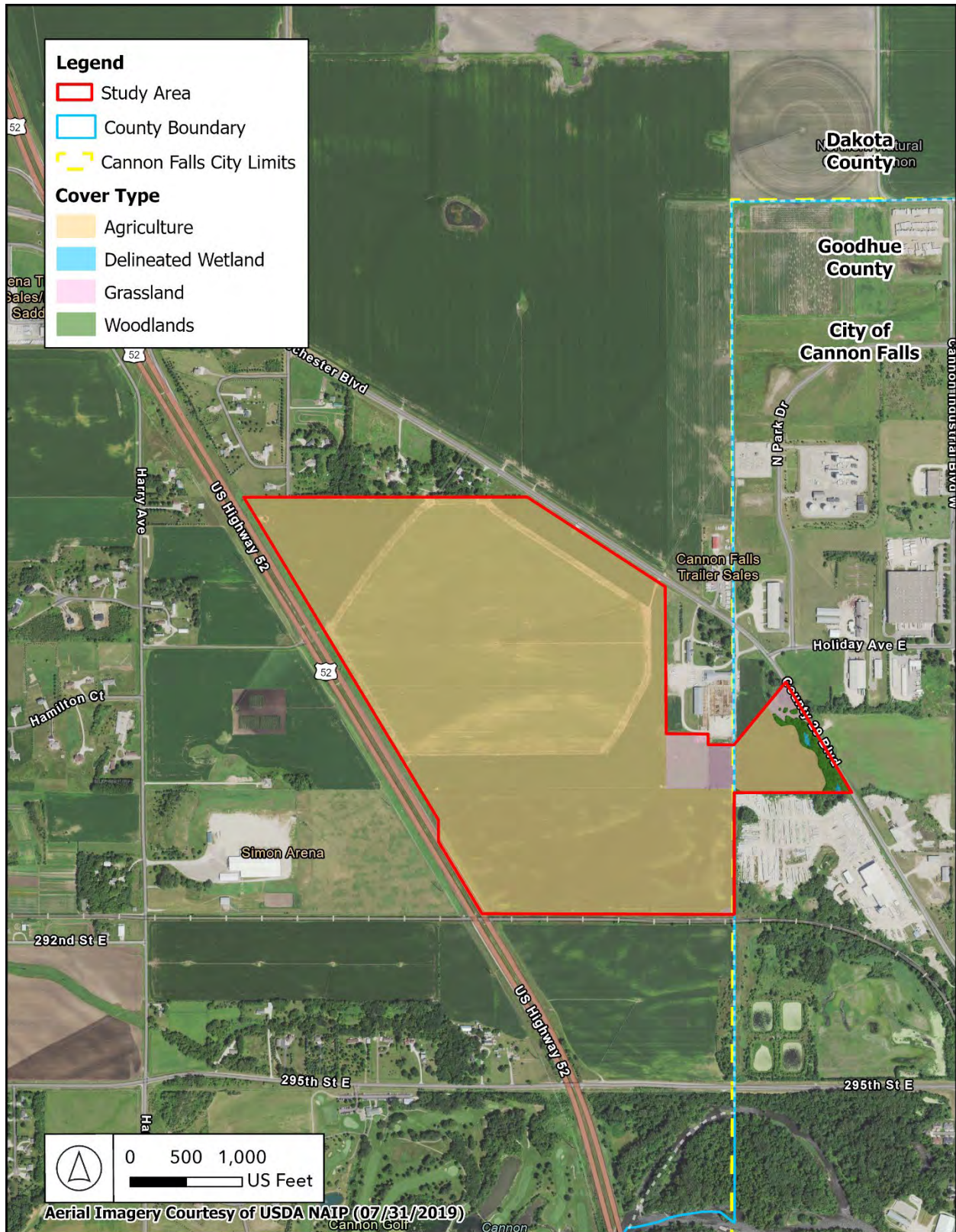
- *A cover type map, at least at the scale of a USGS topographic map, depicting:*
 - *Wetlands (identified by Circular 39 type)*
 - *Watercourses (rivers, streams, creeks, ditches)*
 - *Lakes (identify public waters status and shoreland management classification)*
 - *Woodlands (break down by classes where possible)*
 - *Grassland (identify native and old field)*
 - *Cropland*
 - *Current development*
- *An overlay map showing anticipated development in relation to the cover types. This map should also depict any “protection areas,” existing or proposed, that will preserve sensitive cover types. Separate maps for each major development scenario should be generally provided.*

The AUAR study area is approximately 253 acres of farmland, woodland, and grasslands. A wetland delineation was conducted on October 10, 2024, in which one wetland was identified in the eastern wooded portion of the study area. See Table 3 for complete acreage of each cover type within the AUAR study area. The AUAR will include an analysis of existing and proposed cover types within the study area that are shown on Figure 5. These cover types were determined by reviewing recent aerial photography and a wetland delineation completed for the study area.

Table 3: Existing Cover Types

Cover Type	Approximate Acreage
Agriculture	244.84
Grassland	6.0
Woodlands	2.0
Delineated Wetland	0.16

Figure 5: Cover Types



9. PERMITS AND APPROVALS REQUIRED

AUAR Guidance: A listing of major approvals (including any comprehensive plan amendments and zoning amendments) and public financial assistance and infrastructure likely to be required by the anticipated types of development projects should be given for each major development scenario. This list will help orient reviewers to the framework that will protect environmental resources. The list can also serve as a starting point for the development of the implementation aspects of the mitigation plan to be developed as part of the AUAR.

Table 4: Anticipated Permits and Approvals

Unit of Government	Type of Application	Status
Federal		
US Army Corps of Engineers	Section 404 Permit	To be applied for, if applicable
State		
Minnesota Pollution Control Agency	Section 401 Water Quality Certification	To be applied for, if applicable
	National Pollutant Discharge Elimination System Stormwater Permit for Construction Activities	To be applied for, if applicable
	Sanitary Sewer Extension Permit	To be applied for, if applicable
	Industrial Wastewater Permit	To be applied for, if applicable
	Significant Industrial User Permit	To be applied for, if applicable
	Construction Stormwater Permit	To be applied for, if applicable
	Fuel Storage Tank	To be applied for, if applicable
	Air Permit	To be applied for, if applicable
	Discharge Permit	To be applied for, if applicable
	Water Treatment Plant	To be applied for, if applicable
Minnesota Department of Natural Resources	Temporary Groundwater Appropriation Permit for Construction Dewatering	To be applied for, if applicable
	Water Appropriation Permit	To be applied for, if applicable
Minnesota Department of Health	Water Main Installation Permit	To be applied for, if applicable
Minnesota Department of Labor Industry	Plumbing Review	To be applied for, if applicable
	Electrical Permit	To be applied for, if applicable

Unit of Government	Type of Application	Status
County		
Dakota County	Driveway Permit	To be applied for, if applicable
	Public Drainage Permit	To be applied for, if applicable
	Right-of-Way Permit	To be applied for, if applicable
	Final Plat Review	To be applied for, if applicable
	Well sealing permit	To be applied for, if applicable
	Dewatering well permit	To be applied for, if applicable
Goodhue County	Public Drainage Permit	To be applied for, if applicable
	Driveway Permit	To be applied for, if applicable
	Wetland Conservation Act	To be applied for, if applicable
	Right-of-Way Permit	To be applied for, if applicable
City/Township		
City of Cannon Falls	Preliminary/Final Plat	To be applied for, if applicable
	Building Permit	To be applied for, if applicable
	Site Plan Approval	To be applied for, if applicable
	Stormwater Permit	To be applied for, if applicable
	Right-of-Way Permit	To be applied for, if applicable
	Wetland Conservation Act	To be applied for, if applicable
	AUAR Adoption	In process
	Annexation	To be completed
Randolph Township	Annexation Agreement	To be completed

10. LAND USE

a. Describe:

i. Existing land use of the site as well as areas adjacent to and near the site, including parks, trails, and prime or unique farmlands.

The AUAR study area is located in a semirural area in the northern portion of the City of Cannon Falls and in Randolph Township, Dakota and Goodhue Counties, Minnesota, (refer to Figure 2). The study area consists of 5 existing parcels and is generally bounded by U.S. Highway 52 to the west; parcel boundaries to north; Dakota County 86 and Goodhue County 29 to the east; and PGR railroad to the south. Land uses adjacent to the study area include residential and farmstead uses to the north; farmstead and industrial uses to the east; vacant land to the south, and agriculture and some commercial uses to the west. The existing land uses of the of the study area are shown in Figure 6.

There are no existing parks within the study area. The closest parks to the study area include Lake Byllesby Regional Park and Hannahs Bend Park located approximately 0.6 mile to the southwest and approximately 0.8 mile to the southeast, respectively.

Additionally, Mill Towns State Trail is located approximately 0.8 mile to the southeast, just across from Hannahs Bend Park.

According to the Web Soil Survey for the study area, 54.5 percent of the study area is considered prime farmland, 43.8 percent of the study area is considered farmland of statewide importance, and the remaining 1.7 percent of the study area is not considered prime farmland.² According to the U.S. Department of Agriculture, areas classified as prime farmland contain the best combinations of landscape and soil chemical characteristics for producing food, feed, forage, fiber, and oilseed crops. Agricultural areas classified as farmland of statewide importance include those that generally contain soils nearly meeting the criteria for prime farmland and that economically produce high crop yields when managed under acceptable farming methodology, but are also typically designated on a state-by-state basis.

ii. Planned land use as identified in comprehensive plans (if available) and any other applicable plan for land use, water, or resource management by a local, regional, state, or federal agency.

City of Cannon Falls Comprehensive Plan

The City of Cannon Falls updated their Comprehensive Plan in 2003 to provide guidance on how to combat growth, environmental protections, and retention of the City’s small-town atmosphere.³ The plan is comprised of several interrelated chapters that address the environment protection, land use, transportation, community services, growth and housing, and economic development. According to the Cannon Falls Land Use Plan, the entire study area has a land use designation of Industrial as this area has been envisioned for future growth since 2003.⁴ This area is identified as a growth area for the City of Cannon Falls. Refer to Table 5 for description of the land use designation and allowed uses.

Table 5: Study Area Future Land Use Designations Purpose and Allowed Uses

Land Use Designation	Purpose	Allowed Uses
Industrial	Area for large-scale industrial business that provides jobs for Cannon Falls and the surrounding area	Major industrial, processing, storage, warehouse, trucking, and similar uses
Source: City of Cannon Falls. 2003. <i>Comprehensive Plan</i> , page 8.5. https://www.cannonfallsmn.gov/sites/default/files/fileattachments/economic_development/page/86/comprehensive_plan_cf_2005_reduced_file_size.pdf .		

Cannon River Watershed Joint Powers Organization

The study area is located within the Cannon River Watershed Joint Powers Organization (CRWJPO) planning area. The CRWJPO was created in 2020 to serve the goal of implemented the Cannon River Comprehensive Watershed Management Plan that was

² USDA. 2024. *Web Soil Survey*. Available at: <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

³ City of Cannon Falls. 2003. *Cannon Falls Comprehensive Plan*. Available at: https://www.cannonfallsmn.gov/sites/default/files/fileattachments/economic_development/page/86/comprehensive_plan_cf_2005_reduced_file_size.pdf.

⁴ Ibid, page 8.6.

created in 2016 and developed through the Cannon River One Watershed, One Plan process in partnership with the Minnesota Board of Soil and Water Resources (BWSR). The Minnesota counties and soil and water conservation districts that are part of the CRWJPO include Dakota, Goodhue, Le Sueur, Rice, Steele, and Waseca. The Belle Creek Watershed District and the North Cannon Watershed Management Organization are also members of the CRWJPO.

The AUAR will discuss how the study area will comply with the CRWJPO watershed management plans.

North Cannon River Watershed Management Organization

The North Cannon River Watershed Management Organization (NCRWMO) was created in 1983 through a joint powers' agreement between the eight townships and three small cities in Dakota County that are located within the Cannon River Watershed. Although the NCRWMO participates on the CRWJPO board, it will continue to operate under its current watershed management plan.⁵ The NCRWMO adopted its 4th Generation Watershed Management Plan that will govern watershed management through 2033 focusing on surface water, groundwater, policy and regulation, outreach and education, habitat, data, and emerging issues.⁶

iii. Zoning, including special districts or overlays such as shoreland, floodplain, wild and scenic rivers, critical area, agricultural preserves, etc.

AUAR Guidance: Water-related land use management districts should be delineated on appropriate maps, and the land use restrictions applicable in those districts should be described. If any variances or deviations from these restrictions within the AUAR area are envisioned, this should be discussed.

Existing Zoning

According to the City of Cannon Falls Zoning Map, a portion of the study area is located within Goodhue County, within General Industrial (I-2) zoning district, while the rest of the study area is located in Dakota County in Agricultural Preservation (AP) zoning district (see Figure 7).

It is intended that the property be annexed into Cannon Falls and zoned to “General Industrial (I-2)”. Uses in this zoning district include⁷:

- Bottling establishments
- Building material sales
- Essential services

⁵ Cannon River Watershed Joint Powers Organization. 2020. *Cannon River Comprehensive Watershed Management Plan*. Available at: https://www.cannonriverwatershedmn.gov/files/ugd/33ebb8_742368ec2fcd48a7981e7c6d2a5bb874.pdf.

⁶ North Cannon River Watershed Management Organization. 2023. *4th Generation Watershed Management Plan 2023 - 2033*. Available at: https://northcannonriverwmo.org/wp-content/uploads/2023/07/2023-2033_FINAL-RED_NCRWMO-4th-Gen-Plan.pdf.

⁷ City of Cannon Falls. 2022. *Cannon Falls, MN Code of Ordinances*, Section 152.686 Permitted Uses. Available at: https://codelibrary.amlegal.com/codes/cannonfalls/latest/cannonfalls_mn/0-0-0-9335

Cannon Falls Industrial AUAR – Scoping Document

- Feed and seed sales
- Government and public utility buildings and/or structures
- Greenhouses, nurseries
- Laundry, dry cleaning or dyeing plant
- Machine shops and metal products manufacturing when not equipped with heavy (exceeding 50-ton pressure punch presses, drop forges, riveting and grinding machines or any equipment which may create noise, vibration, smoke, odors, heat or glare and the like, disturbing to adjacent property occupants
- Manufacturing or assembly of a wide variety of products that produces no exterior noise, glare, fumes, obnoxious products, by-products or wastes or creates other objectionable impact on the environment, including the generation of large volumes of traffic.
- Mass transit terminals
- Professional offices
- Radio and television stations
- Shops and offices for contractors including plumbing, heating, glazing, paper hanging, roofing, ventilating, electrical, carpentry, welding, landscaping, excavating and general contracting, including contractor storage of equipment and building materials if enclosed within a building, but not storage yards
- Truck terminals
- Warehousing and distribution facilities but not including mini self-storage facilities
- Wholesale businesses and offices

Randolph Township Agricultural Preservation zoning allowed uses include⁸:

- Agriculture and accessory agricultural uses
- Stands for the sale of agricultural produces raised on the premises
- Single family residential dwellings at a density not exceeding one (1) home per quarter/quarter section
- Accessory residential uses and structures
- Home occupations
- A state licensed residential facility or a housing with services establishment registered to serve six (6) or fewer persons, except those as provided for under Minnesota Statute 46.357, subdivision 7
- A state licensed day care facility serving twelve (12) or fewer persons or a group family day care facility licensed under Minnesota Rules, parts 9502.0315 to 9502.0445 to serve fourteen (14) or fewer children
- Township governmental facilities and structures
- Essential services

⁸ Randolph Township. 2023. *Zoning Ordinance*, Section 5.05. Available at: <https://www.randolph-township.com/>.

Cannon Falls Industrial AUAR – Scoping Document

FEMA National Flood Hazard

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (panel number 27037C0420E, effective 12/02/2011; panel number 27037C0418E, effective 12/02/2011; and panel number 27049C0118E, effective 9/25/2009), the majority of the AUAR study area is located in an area of minimal flooding area, or Zone X.⁹ The AUAR will discuss design measures implemented to reduce impacts to the floodplain.

North Cannon Falls Watershed Management Plan¹⁰

The 4th Generation North Cannon Falls Watershed Management Plan serves as a comprehensive planning document to guide in protecting, preserving, and managing its surface water resources for fish and wildlife habitat, aesthetics, and aquatic recreation as well as groundwater water resources for human consumption and non-potable uses, such as irrigation. The main priorities in the management plan include surface water, groundwater, policy and regulation, outreach and education, habitat, data and studies, and emerging issues. Each priority has associated actionable and measurable goals that will be used to carry out the watershed management mission statement.

- iv. **If any critical facilities (i.e., facilities necessary for public health and safety, those storing hazardous materials, or those housing occupants who may be insufficiently mobile) are proposed in floodplain areas and other areas identified as at risk for localized flooding, describe the risk potential considering changing precipitation and event intensity.**

No critical facilities are proposed as part of the project.

b. Discuss the project's compatibility with nearby land uses, zoning, and plans listed in Item 9a above, concentrating on implications for environmental effects.

AUAR Guidance: The extent of conversion of existing farmlands anticipated in the AUAR should be described. If any farmland will be preserved by special protection programs, this should be discussed.

If development of the AUAR will interfere or change the use of any existing designated parks, recreation areas, or trails, this should be described in the AUAR. The RGU may also want to discuss under this item any proposed parks, recreation areas, or trails to be developed in conjunction with development of the AUAR area.

The AUAR must include a statement of certification from the RGU that its comprehensive plan complies with the requirements set out at Minnesota Rules, part 4410.3610, subpart 1. The AUAR document should discuss the proposed AUAR area development in the context of the

⁹ FEMA. 2024. *FEMA Flood Map Service Center*. Available at: <https://msc.fema.gov/portal/search?AddressQuery=cannon%20falls>.

¹⁰ North Cannon River Watershed Management Organization. 2023. *4th Generation Watershed Management Plan*. Available at: https://northcannonriverwmo.org/wp-content/uploads/2023/07/2023-2033_FINAL-RED_NCRWMO-4th-Gen-Plan.pdf.
<https://lakevillemn.gov/DocumentCenter/View/408/Water-Resources-Management-Plan-PDF>

Cannon Falls Industrial AUAR – Scoping Document

comprehensive plan. If this has not been done as part of the responses to Items 6, 9, 11, 18, and others, it must be addressed here; a brief synopsis should be presented here if the material has been presented in detail under other items. Necessary amendments to comprehensive plan elements to allow for any of the development scenarios should be noted. If there are any management plans of any other local, state, or federal agencies applicable to the AUAR area, the document must discuss the compatibility of the plan with the various development scenarios studied, with emphasis on any incompatible elements.

The AUAR will discuss the project's compatibility with nearby land uses, zoning, parks and trails, and other relevant plans. The AUAR will also include a statement of certification from the RGU that its comprehensive plan complies with the requirements set out at Minnesota Rules, part 4410.3610, subpart 1.

1 Identify measures incorporated into the proposed project to mitigate any potential incompatibility as discussed in Item 9b above.

The proposed development scenarios are anticipated to be compatible with planned land use in the project vicinity. The AUAR will identify measures to mitigate any potential incompatibilities.

Figure 6: Existing Land Use

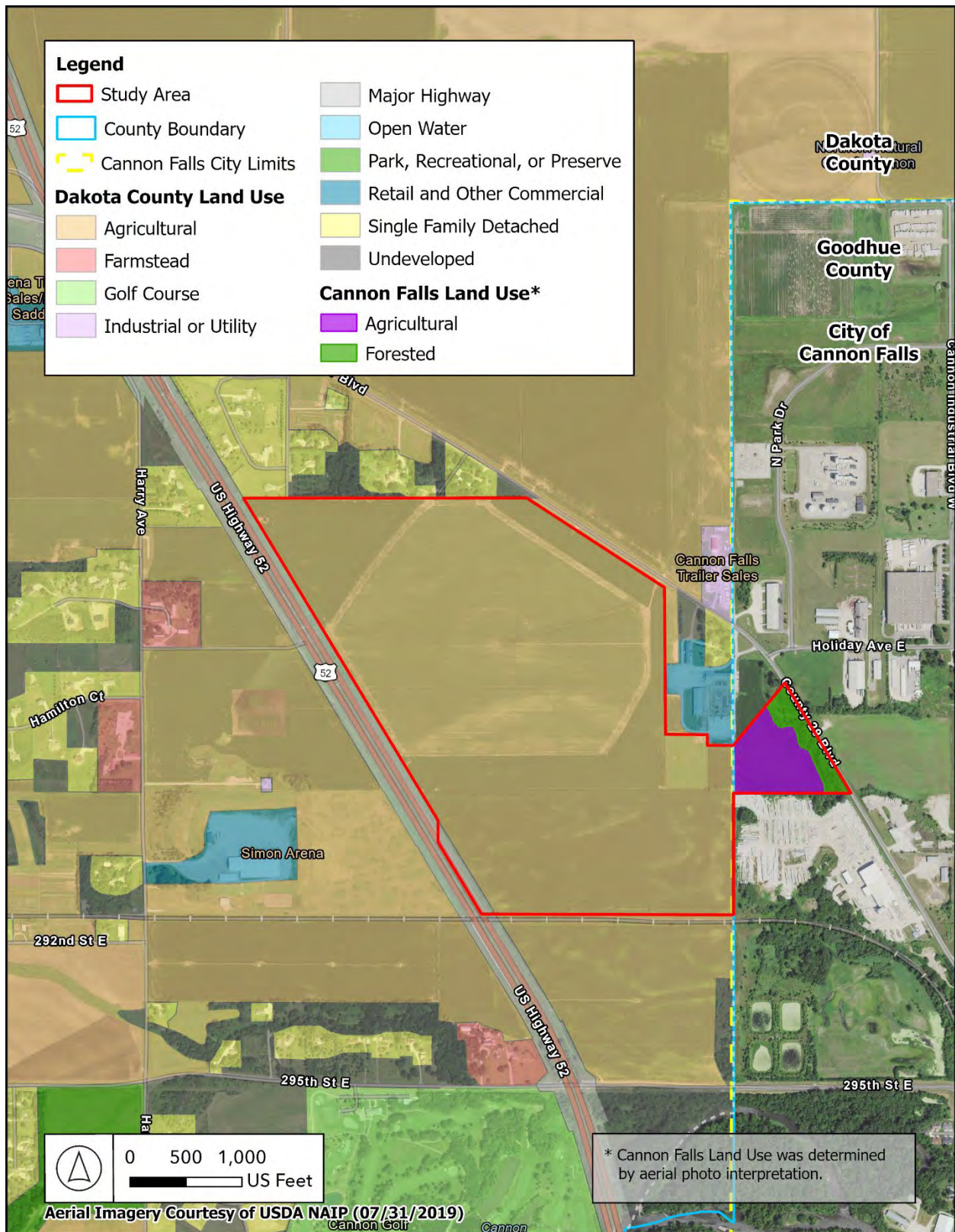


Figure 7: Existing Zoning

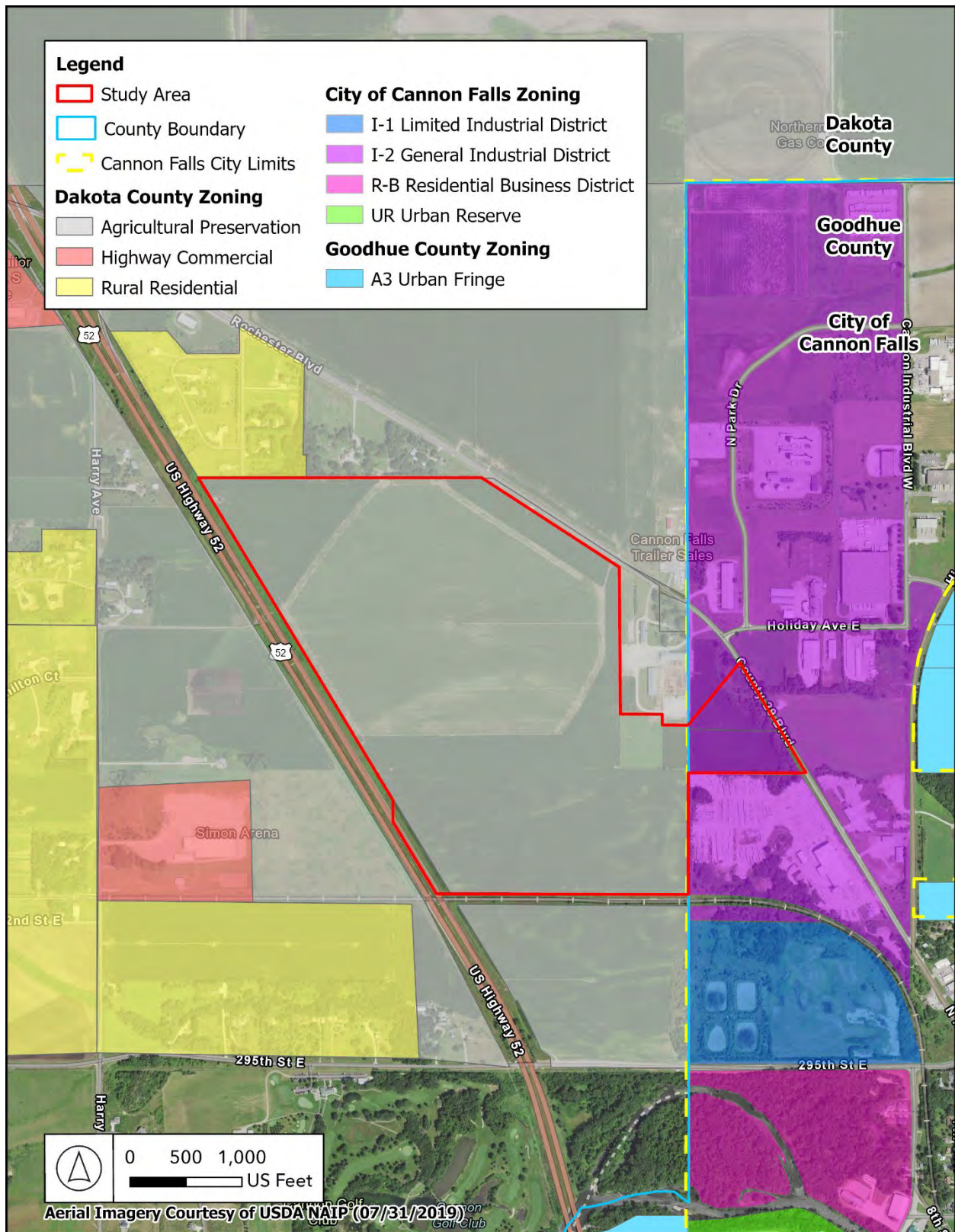
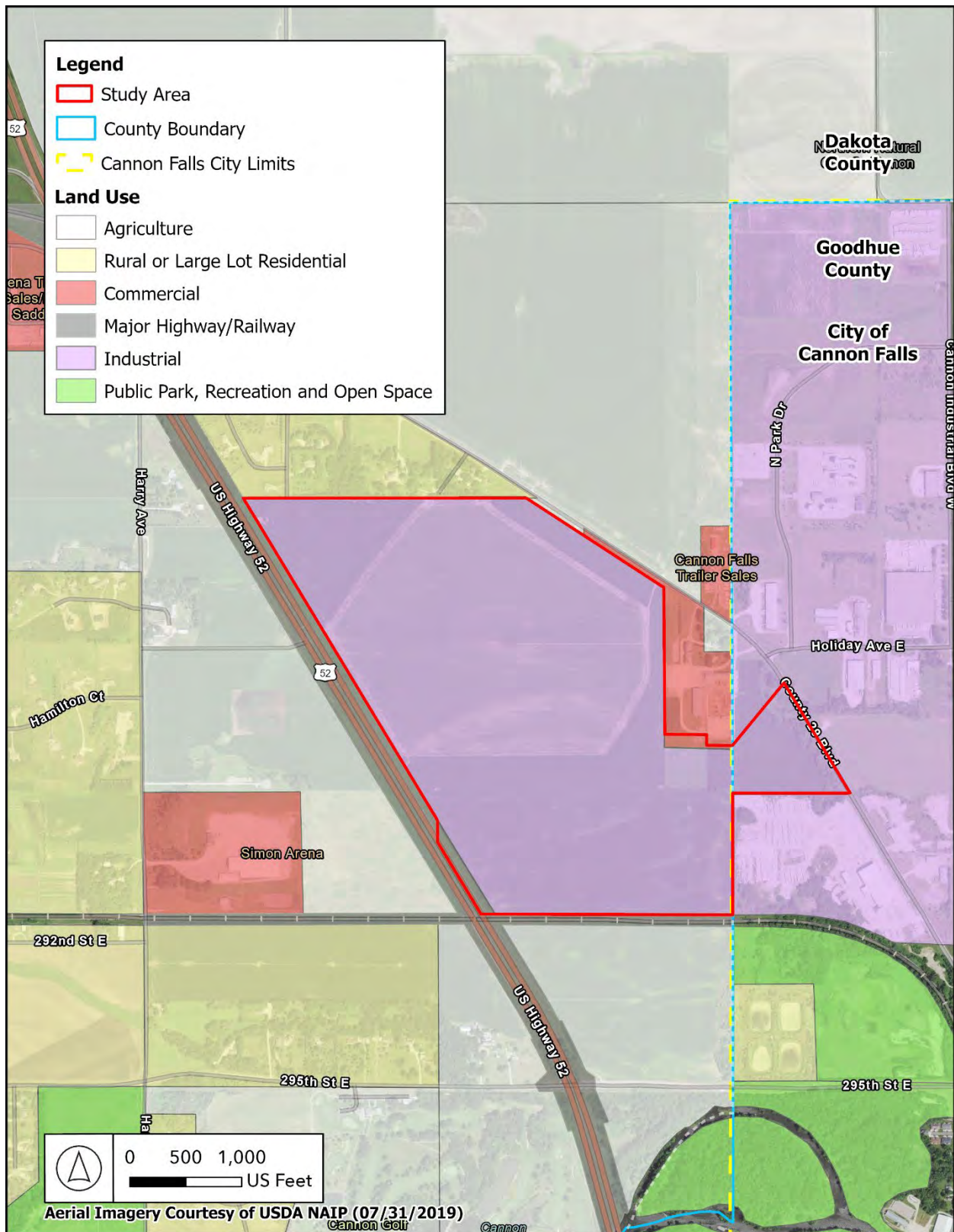


Figure 8: Future Land Use



11. GEOLOGY, SOILS, AND TOPOGRAPHY/LANDFORMS

- a. **Geology – Describe the geology underlying the project area and identify and map any susceptible geologic features such as sinkholes, shallow limestone formations, unconfined/shallow aquifers, or karst conditions. Discuss any limitations of these features for the project and any effects the project could have on these features. Identify any project designs or mitigation measures to address effects to geologic features.**

AUAR Guidance: A map should be included to show any groundwater hazards identified.

According to the Geologic Atlas' of Dakota County and Goodhue County, the entirety of the AUAR study area is underlain by Paleozoic bedrocks. The depth to bedrock across the study area ranges from 0 – 50 feet in the northwest corner to 50 – 100 feet along the eastern boundary. The Paleozoic rocks are characterized by relatively thin, widespread layers of sandstone, shale, and carbonate deposited in shallow seas during the Cambrian and Ordovician Periods. The entirety of the study area is within the *Shakopee Formation*, which is a heterolithic unit composed of tan- to orangish-brown dolostone, sandy dolostone, sandstone, and shale.^{11,12}

There are no known sinkholes or unconfined/shallow aquifers located within the AUAR study area. Additionally, there are no karst conditions located within or near the study area.

The AUAR will discuss any limitations of these features for future development and any effects development could have on these features.

- b. **Soils and Topography – Describe the soils on the site, giving NRCS (SCS) classifications and descriptions, including limitations of soils. Describe topography, any special site conditions relating to erosion potential, soil stability, or other soil limitations, such as steep slopes or highly permeable soils. Provide estimated volume and acreage of soil excavation and/or grading. Discuss impacts from project activities (distinguish between construction and operational activities) related to soils and topography. Identify measures during and after project construction to address soil limitations including stabilization, soil corrections, or other measures. Erosion/sedimentation control related to stormwater runoff should be addressed in response to Item 11.b.ii.**

AUAR Guidance: The number of acres to be graded and number of cubic yards of soil to be moved need not be given; instead, a general discussion of the likely earthmoving needs for development of the area should be given, with an emphasis on unusual or problem areas. In discussing mitigation measures, both the standard requirements of the local ordinances and any special measures that would be added for AUAR purposes should be included. A standard soils map for the area should be included.

¹¹ University of Minnesota. 2023. *Bedrock Geology* (Dakota County). Available at: <https://conservancy.umn.edu/server/api/core/bitstreams/699a0e2d-0666-491d-89d9-ffda1c6b2ed0/content>.
<https://conservancy.umn.edu/server/api/core/bitstreams/c8f26a04-9210-476a-9e2c-b098c1209760/content>

¹² University of Minnesota. 1998. *Bedrock Geology* (Goodhue County). Available at: <https://conservancy.umn.edu/server/api/core/bitstreams/1aec21d9-0b5d-41e7-b7a8-9d70ecb1b4dc/content>.

Cannon Falls Industrial AUAR – Scoping Document

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey, the study area is comprised of 13 different soil types. Soils are classified by the NRCS into four hydrologic soil groups, A, B, C, and D, with A having the lowest runoff potential and D having the greatest runoff potential. The erosion hazard indicates the hazard of soil loss from off-road areas after disturbance activities that expose the soil surface. All soil information for the Study Area is described in Table 6 and locations within the study area are shown in Figure 9. Within the study area, 1.3 percent of the soil surface is mapped with a “moderate” rating, indicating that some erosion is likely in these areas and that erosion control measures may be needed. The remaining 98.7 percent of the study area is mapped with a “slight” rating, meaning that erosion is unlikely under ordinary climatic conditions. Exposed soils may have the potential for erosion during construction due to wind or precipitation.

According to USGS, the approximate elevation within the study area ranges from 842 feet to 894 above mean sea level and water would generally flow toward the southeast.

The AUAR will include a general discussion of the likely earthmoving needs for the development and identify measures to minimize erosion and identify short-term and long-term establishment and erosion control plans that account for seasonal changes and comply with permit conditions.

Any additional information provided by the developer will be utilized to supplement the information provided above.

Table 6: Soil Types

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	Farmland Rating	Hydric Rating	Hydrologic Soil Group	Erosion Hazard Rating
2B	Ostrander loam, 1 to 6 percent slopes	1.8	0.7%	All areas are prime farmland	0	B	Slight
27A	Dickinson sandy loam, 0 to 2 percent slopes	1.3	0.5%	All areas are prime farmland	0	A	Slight
27B	Dickinson sandy loam, 2 to 6 percent slopes	12.1	5.0%	All areas are prime farmland	1	A	Slight
41A	Estherville sandy loam, 0 to 2 percent slopes	89.6	36.8%	Farmland of statewide importance	0	A	Slight
42C	Alida gravelly coarse sandy loam, 2 to 12 percent slopes	4.2	1.7%	Not prime farmland	0	A	Slight
100B	Copaston loam, 2 to 6 percent slopes	3.5	1.4%	Farmland of statewide importance	0	D	Slight

Cannon Falls Industrial AUAR – Scoping Document

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	Farmland Rating	Hydric Rating	Hydrologic Soil Group	Erosion Hazard Rating
100C	Copaston loam, 6 to 12 percent slopes	1.4	0.6%	Farmland of statewide importance	0	D	Moderate
411A	Waukegan silt loam, 0 to 1 percent slopes	107.6	44.2%	All areas are prime farmland	0	B	Slight
415A	Kanaranzi loam, 0 to 2 percent slopes	5.8	2.4%	Farmland of statewide importance	0	B	Slight
1896B	Ostrander-carmi loams, 2 to 6 percent slopes	7.1	2.9%	All areas are prime farmland	0	B	Slight
M520B	Rasset sandy loam, 0 to 6 percent slopes	2.9	1.2%	All areas are prime farmland	0	A	Slight
M520C2	Rasset sand loam, 6 to 12 percent slopes, moderately eroded	1.7	0.7%	Farmland of statewide importance	0	A	Moderate
M534B	Estherville-Ridgeport complex, 0 to 6 percent slopes	4.5	1.9%	Farmland of statewide importance	0	A	Slight

Figure 9: Soil Types

Legend

- Study Area
- County Boundary
- Cannon Falls City Limits

Soil Types

- 100B
- 100C
- 1896B
- 27A
- 27B
- 2B
- 411A
- 415A
- 41A
- 42C
- M520B
- M520C2
- M534B
- M538A

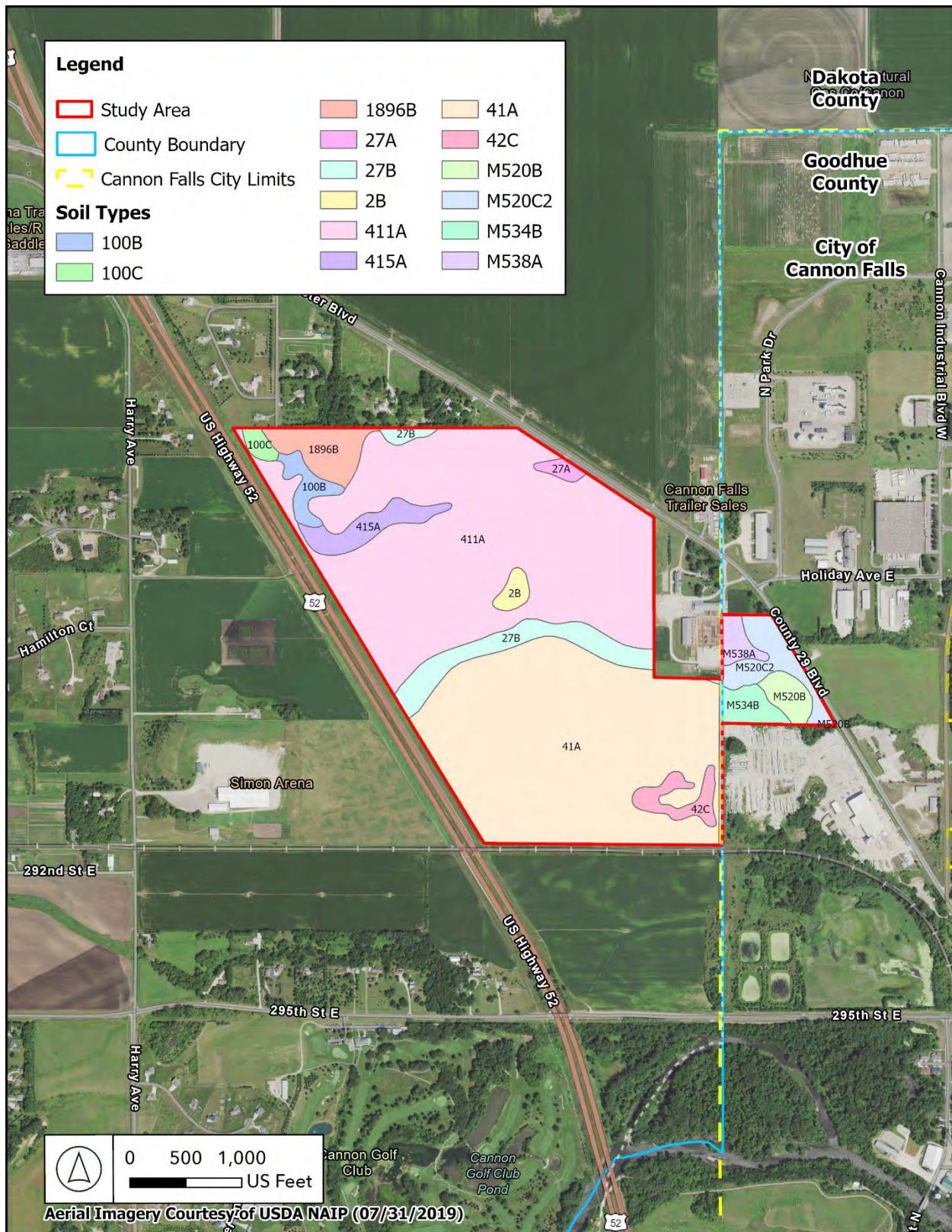
Map Labels:

- US Highway 52
- Harry Ave
- Hamilton Ct
- Simon Arena
- 292nd St E
- 295th St E
- Cannon Golf Club
- Cannon Golf Club Pond
- US Highway 52
- County 29 Blvd
- Goodhue County
- City of Cannon Falls
- N Park Dr
- Cannon Industrial Blvd W
- Holiday Ave E
- Cannon Falls Trailer Sales
- Dakota Natural Resources

Scale: 0 500 1,000 US Feet

Aerial Imagery Courtesy of USDA NAIP (07/31/2019)

Cannon Falls Industrial AUAR – Scoping Document



Source: United States Department of Agriculture. 2024. *Web Soil Survey*.

<https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.

12. WATER RESOURCES

AUAR Guidance: The information called for on the EAW form should be supplied for any of the infrastructure associated with the AUAR development scenarios, and for any development expected to physically impact any water resources. Where it is uncertain whether water resources will be impacted depending on the exact design of future development, the AUAR should cover the possible impacts through a “worst case scenario” or else prevent impacts through the provisions of the mitigation plan.

a. Describe surface water and groundwater features on or near the site below.

- i. Surface Water – lakes, streams, wetlands, intermittent channels, and county/judicial ditches. Include any special designations such as public waters, trout stream/lake, wildlife lakes, migratory waterfowl feeding/resting lake, and outstanding resource value water. Include water quality impairments or special designations listed on the current MPCA 303d Impaired Waters List that are within one mile of the project. Include DNR Public Waters Inventory number(s), if any.**

The field wetland delineation conducted by Kimley-Horn in October 2024 identified two wetlands and two intermittent streams within the study area, as described in Table 7 and shown in Figure 10. Both wetlands and both intermittent streams are anticipated to be regulated by the U.S. Army Corps of Engineers and the Minnesota Board of Soil and Water Resources (BWSR) due to connections to offsite Traditionally Navigable Waterways (TNWs). The AUAR will include a summary of the findings from the wetland delineation.

As shown in Figure 11, no MPCA 303d Impaired Waters are located within the study area. The closest MPCA 303d Impaired Water is Cannon River, located approximately 1,700 feet south of the study area.¹³ The Mississippi River Corridor Critical Area is not within one mile of the AUAR Study Area.¹⁴ Lastly, no trout streams are located within the study area; the closest stream is Pine Creek located approximately 1.3 miles to the northeast.¹⁵ The project study area is unlikely to drain into Pine Creek as elevation within the study area generally slopes southeast. Additional water resources identified during the wetland delineation as well as potential impacts to surface waters and mitigation measures, if applicable, will be discussed in the AUAR.

The study area is located within the North Cannon River Watershed Management Organization and Cannon River Watershed Joint Powers Organization areas.

¹³ Minnesota Pollution Control Agency. 2024. *Impaired Waters: final 2024*. Available at: <https://mpca.maps.arcgis.com/apps/webappviewer/index.html?id=fcfc5a12d2fd4b16bc95bb535d09ae82>.

¹⁴ Minnesota Department of Natural Resources. 2024. *Background and Purpose MRCCA*. Available at: https://www.dnr.state.mn.us/waters/watermgmt_section/critical_area/background-and-purpose.html.

¹⁵ Minnesota Department of Natural Resources. 2024. *Trout Fishing Streams and Lakes*. Available at: <https://www.dnr.state.mn.us/fishing/trout/map.html>.

Cannon Falls Industrial AUAR – Scoping Document

Table 7: Delineation Summary

Resource ID	Wetland Plant Community	HGM	Cowardin Classification ¹⁶	Size (acres/linear feet) ¹⁷	NWI?	Hydric Soils? ¹⁸	NOTES	Regulatory Status ¹⁹
Wetland 1	Seasonally Flooded Basin/Scrub Shrub	Depression	PEM1A	0.10	-	No	Wetland located in a depression in the eastern section of the study area. The wetland collects runoff from the surrounding landscape and a series of onsite/offsite mapped NWI and NHD features. The wetland boundary was based on the change in topography, offsite aerial analysis, and hydrophytic vegetation dominance. The resource appears surficially isolated from other aquatic resources.	Jurisdictional (USACE): does have a continuous surficial connection to a Traditionally Navigable Water (TNW) or Relatively Permanent Water (RPW). WCA Jurisdictional
Wetland 2	Seasonally Flooded Basin/ Scrub Shrub	Depression	PEM1A	0.06	-	No	Wetland located in a depression in the eastern section of the study area. The wetland collects runoff from the surrounding landscape and a series of onsite/offsite mapped NWI and NHD features. The wetland boundary was based on the change in topography, offsite aerial analysis, and hydrophytic vegetation dominance. The resource appears surficially isolated from other aquatic resources.	Jurisdictional (USACE): does have a continuous surficial connection to a Traditionally Navigable Water (TNW) or Relatively Permanent Water (RPW). WCA Jurisdictional

Non-Wetland Aquatic Resources							
Intermittent Stream 1	-	-	PEMG	302 In ft	R4SBC	No	Intermittent Stream 1 located along the eastern portion of the site and collects drainage from the surrounding landscape. The stream drains offsite to the east. The stream had banks 1 to 3 feet deep and 3 to 6 feet wide. Flowing water was observed entering the stream through the northern portion of the study area and flowing offsite to the east. Water levels were approximately 3 inches in depth.
Intermittent Stream 2	-	-	PEMG	264 In ft	R4SBC	No	Intermittent Stream 2 located along the eastern portion of the site and collects drainage from the surrounding landscape. The stream drains offsite to the south. The stream had banks 1 to 3 feet deep and 3 to 6 feet wide. Flowing water was observed entering the stream through the eastern portion of the study area and flowing offsite to the south. Water levels were approximately 3 inches in depth.
							USACE-Jurisdictional: tributary contributes surface water flow to an offsite Traditionally Navigable Water (TNW) or Relatively Permanent Water (RPW). USACE-Jurisdictional: tributary contributes surface water flow to an offsite Traditionally Navigable Water (TNW) or Relatively Permanent Water (RPW).

¹⁶ The Cowardin Classification System codes are found here: <https://www.fws.gov/wetlands/documents/Wetlands-and-Deepwater-Habitats-Classification-chart.pdf>

¹⁷ Size of wetland features and additional areas investigated provided in acres and size of non-wetland, linear features provided in linear feet.

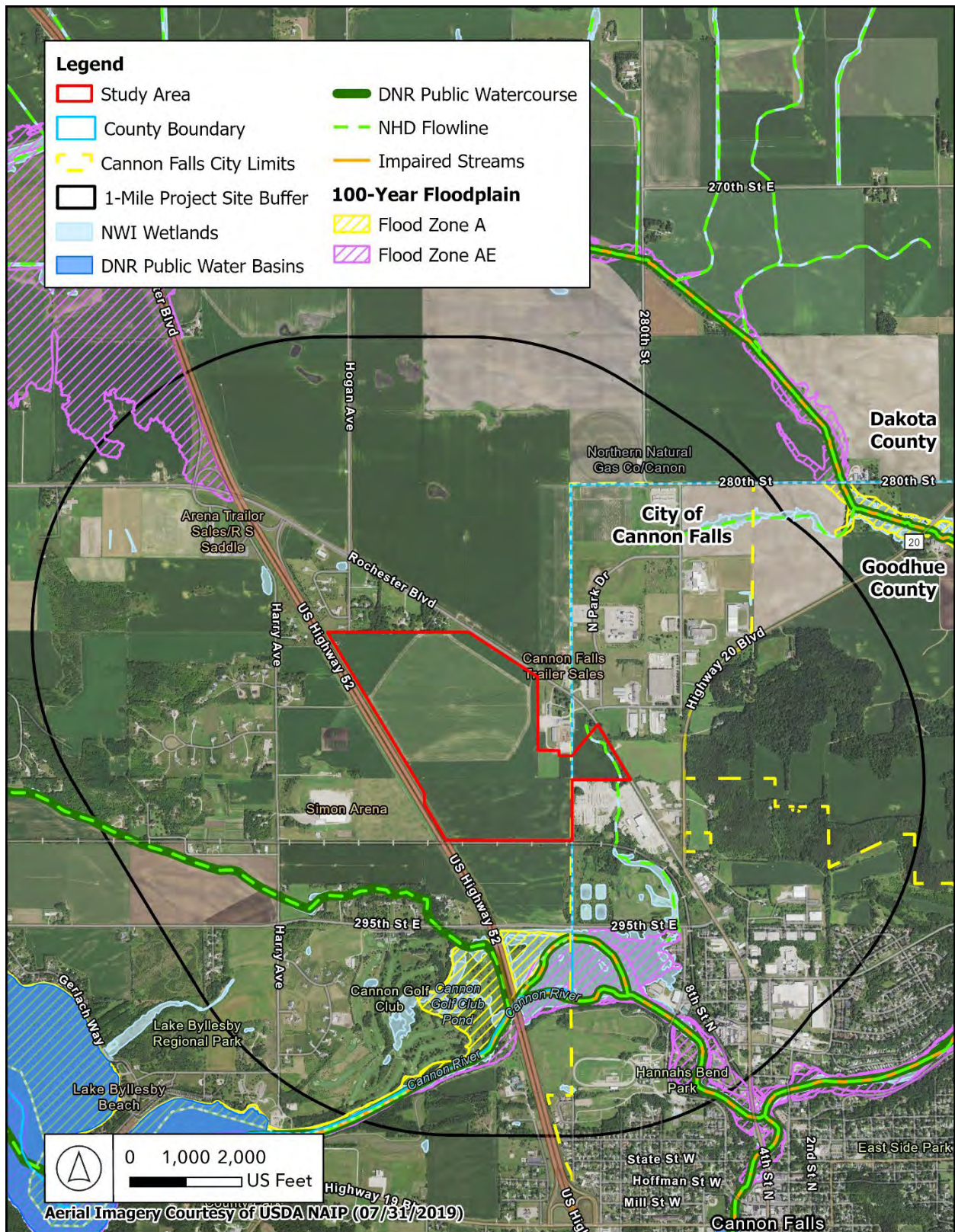
¹⁸ Areas identified as hydric contain partially hydric soils (equal to or greater than 33% of soil component) mapped within the resource area.

¹⁹ Regulatory Status is based on best professional judgment and has not been verified with agency staff.

Figure 10: Delineated Wetlands



Figure 11: Surface Water Resources



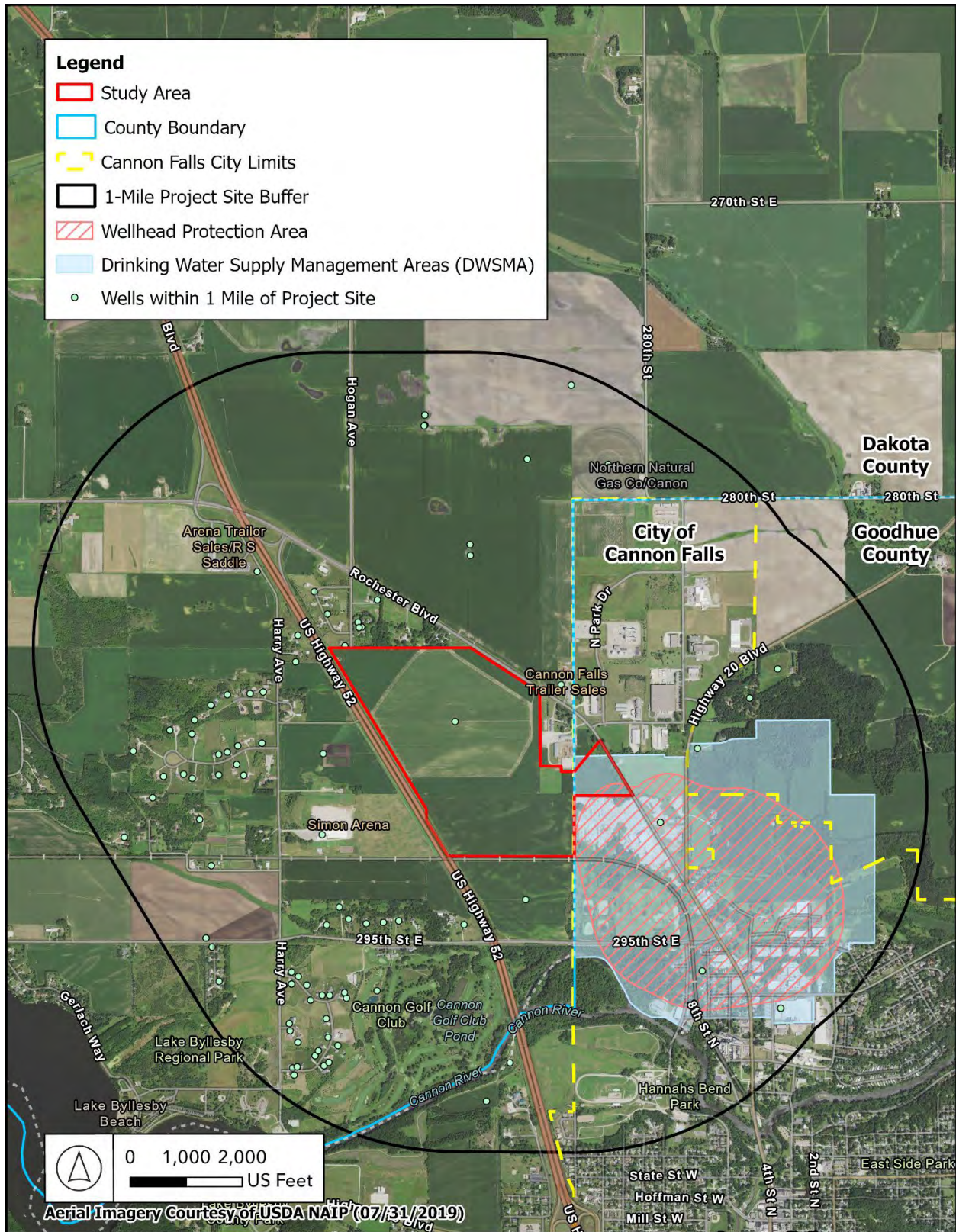
- ii. **Groundwater – aquifers, springs, and seeps. Include 1) depth to groundwater; 2) if project is within a MDH well protection area; and 3) identification of any onsite and/or nearby wells, including unique numbers and well logs, if available. If there are no wells known on site or nearby, explain the methodology used to determine this.**

According to the Geologic Atlas of Dakota County, hydrogeology surveys, which include discussion of depth to groundwater, have yet to be completed. However, the majority of the groundwater that supplies Dakota County comes from the Paleozoic bedrock formations. The depth to the bedrock within the study area ranges from 176 feet to 250, and even down to 275 in some areas.²⁰

According to the Minnesota Department of Health, and as shown in Figure 12, one irrigation well is located within the AUAR study area. Additionally, there are several wells located within one mile of the study area, with the majority located to the west and southwest. Additionally, the most eastern portion of the study area is located within a drinking water supply management area and a small area is located within a wellhead protection area, as shown in Figure 12.

²⁰ University of Minnesota. 2023. *Bedrock Geology*. Available at: <https://conservancy.umn.edu/server/api/core/bitstreams/699a0e2d-0666-491d-89d9-ffda1c6b2ed0/content>.

Figure 12: Groundwater Resources



b. Describe effects from project activities on water resources and measures to minimize or mitigate the effects below.

i. Wastewater – For each of the following, describe the sources, quantities, and composition of all sanitary, municipal/domestic, and industrial wastewaters projected or treated at the site.

AUAR Guidance: Observe the following points of guidance in an AUAR:

- *Only domestic wastewater should be considered in an AUAR—industrial wastewater would be coming from industrial uses that are excluded from review through an AUAR process. Wastewater details will be discussed in the AUAR.*
- *Wastewater flows should be estimated by land use subareas of the AUAR area; the basis of flow estimates should be explained.*
- *The major sewer system features should be shown on a map, and the expected flows should be identified*
- *If not explained under Item 6, the expected staging of the sewer system construction should be described.*
- *The relationship of the sewer system extension to the RGU’s comprehensive sewer plan, including MUSA expansions, should be discussed. For non-metro area AUARs, the AUAR must discuss the capacity of the RGU’s wastewater treatment system compared to the flows from the AUAR area; any necessary improvements should be described.*
- *If on-site systems will serve part of the AUAR, the guidance in the February 2000 edition of the EAW Guidelines on page 16 regarding item 18b under Residential development should be followed.*

1) If the wastewater discharge is to a publicly owned treatment facility, identify any pretreatment measures and the ability of the facility to handle the added water and waste loadings, including any effects on, or required expansion of, municipal wastewater infrastructure.

It is assumed that sanitary sewer service for the AUAR study area will be provided by existing City sanitary sewer connections in the area.

The AUAR will evaluate the estimated wastewater flows for the proposed development scenarios, and the existing City sanitary sewer system will be evaluated to determine if there is adequate capacity to convey wastewater. Appropriate mitigation measures or system improvements will be identified, if needed. The AUAR will discuss Minnesota Pollution Control Agency (MPCA) requirements and potential pretreatment measures for industrial wastewater.

- 2) If the wastewater discharge is to a subsurface sewage treatment system (SSTS), describe the system used, the design flow, and suitability of site conditions for such a system.

No subsurface sewage treatment systems (SSTS) are anticipated within the AUAR study area for the proposed development scenario.

- 3) If the wastewater discharge is to surface water, identify the wastewater treatment methods, discharge points, and proposed effluent limitations to mitigation impacts. Discuss any effects to surface or groundwater from wastewater discharges.

No wastewater discharge to surface waters is anticipated for the proposed development scenario.

- ii. **Stormwater – Describe changes in surface hydrology resulting from change of land cover. Describe the routes and receiving water bodies for runoff from the project site (major downstream water bodies as well as the immediate receiving waters). Discuss environmental effects from stormwater discharges on receiving waters post-construction, including how the project will affect runoff volume, discharge rate, and change in pollutants. Consider the effects of current Minnesota climate trends and anticipated changes in rainfall frequency, intensity, and amount with this discussion. For projects requiring NPDES/SDS Construction Stormwater permit coverage, state the total number of acres that will be disturbed by the project and describe the stormwater pollution prevention plan (SWPPP), including specific best management practices to address soil erosion and sedimentation during and after project construction. Discuss permanent stormwater management plans, including methods of achieving volume reduction to restore or maintain the natural hydrology of the site using green infrastructure practices or other stormwater management practices. Identify any receiving waters that have construction-related water impairments or are classified as special as defined in the Construction Stormwater permit. Describe additional requirements for special and/or impaired waters.**

AUAR Guidance: For an AUAR the following additional guidance should be followed in addition to that in EAW Guidelines:

- *It is expected that an AUAR will have a detailed analysis of stormwater issues.*
- *A map of the proposed stormwater management system and of the water bodies that will receive stormwater should be provided.*
- *The description of the stormwater systems would identify on-site and “regional” detention ponding and also indicate whether the various ponds will be new water bodies or converted existing ponds or wetlands. Where on-site ponds will be used but have not yet been designed, the discussion should indicate the design standards that will be followed.*

Cannon Falls Industrial AUAR – Scoping Document

- *If present in or adjoining the AUAR area, the following types of water bodies must be given special analyses:*
 - *Lakes: Within the Twin Cities metro area, a nutrient budget analysis must be prepared for any “priority lake” identified by the Metropolitan Council. Outside of the metro area, lakes needing a nutrient budget analysis must be determined by consultation with the MPCA and DNR staffs.*
 - *Trout streams: If stormwater discharges will enter or affect a trout stream, an evaluation of the impacts on the chemical composition and temperature regime of the stream and the consequent impacts on the trout population (and other species of concern) must be included.*

There is currently minimal impervious surface area within the study area. The total amount of impervious surface under the development scenarios will be described in the AUAR.

The AUAR will address stormwater rates, water quality, and volumes for the AUAR study area, and any temporary and permanent stormwater run-off controls will be identified. An existing and proposed conditions analysis will be completed showing the locations of the temporary and permanent stormwater run-off controls.

The National Pollution Discharge Elimination System (NPDES) permit requirements will be adhered to. Special or impaired waters on or near the site will be identified.

Based on the results of the climate trends analysis and flooding risk assessment, any additional volume and rate control needed for stormwater management will be discussed in the AUAR. Stormwater management strategies including any proposed green infrastructure will be documented in the AUAR.

- iii. **Water Appropriation – Describe if the project proposes to appropriate surface or groundwater (including dewatering). Describe the source, quantity, duration, use, and purpose of the water use and if a DNR water appropriation permit is required. Describe any well abandonment. If connecting to an existing municipal water supply, identify the wells to be used as a water source and any effects on, or required expansion of, municipal water infrastructure. Discuss environmental effects from water appropriation, including an assessment of the water resources available for appropriation. Discuss how the proposed water use is resilient in the event of changes in total precipitation, large precipitation events, drought, increased temperatures, variable surface water flows and elevations, and longer growing seasons. Identify any measures to avoid, minimize, or mitigate environmental effects from the water appropriation. Describe contingency plans should the appropriation volume increase beyond infrastructure capacity or water supply for the project diminish in quantity or quality, such as reuse of water, connections with another water source, or emergency connections.**

AUAR Guidance: If the area requires new water supply wells, specific information about that appropriation and its potential impacts on groundwater levels should be given; if groundwater levels would be affected, any impacts resulting on other resources should be addressed.

The water supply for the study area will be obtained from the City of Cannon Falls. The city provides water to residents from three groundwater wells ranging from 393 to 400 feet deep that draw water from the Jordan and Jordan-St. Lawrence aquifers.²¹

The AUAR will discuss the water demands for the site and the existing city water system capacity. Mitigation strategies or system improvements, if applicable, will be identified and discussed in the AUAR.

The AUAR will evaluate the existing and proposed infrastructure needs and will discuss the viability of supplementing City water with alternative water sources.

Handling of any required construction dewatering discharge will be addressed in the AUAR.

iv. Surface Waters

1) Wetlands – Describe any anticipated physical effects or alterations to wetland features, such as draining, filling, permanent inundation, dredging, and vegetative removal. Discuss direct and indirect environmental effects from physical modification of wetlands, including the anticipated effects that any proposed wetland alterations may have to the host watershed, taking into consideration how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects. Identify measures to avoid (e.g., available alternatives that were considered), minimize, or mitigate environmental effects to wetlands. Discuss whether any required compensatory wetland mitigation for unavoidable wetland impacts will occur in the same minor or major watershed and identify those probable locations.

A wetland delineation has been completed for this project, however, the delineation report has not yet been submitted and approved. The AUAR will address potential wetland impacts based on the proposed scenarios, and mitigation strategies will be identified, if applicable.

2) Other surface waters – Describe any anticipated physical effects or alterations to surface water features (lakes, streams, ponds, intermittent channels, county/judicial ditches) such as draining, filling, permanent inundation, dredging, diking, stream diversion, impoundment, aquatic plant removal, and riparian alteration. Discuss direct and indirect environmental effects from physical modification of water features, taking into consideration how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects. Identify measures to avoid, minimize, or

²¹ City of Cannon Falls. 2023. *Cannon Falls 2023 Drinking Water Report*. Available at: https://www.cannonfallsmn.gov/sites/default/files/fileattachments/public_works/page/7682/2023_consumer_confidence_report.pdf.

mitigate environmental effects to surface water features, including in-water Best Management Practices that are proposed to avoid or minimize turbidity/sedimentation while physically altering the water features. Discuss how the project will change the number or type of watercraft on any water body, including current and projected watercraft usage.

AUAR Guidance: Water surface use need only be addressed if the AUAR area would include or adjoin recreational water bodies.

Wetlands are present within the AUAR study area. Surface water alterations will be discussed in the AUAR.

13. CONTAMINATION/HAZARDOUS MATERIALS/WASTES

- a. Pre-project Site Conditions – Describe existing contamination or potential environmental hazards on or in close proximity to the project site, such as soil or groundwater contamination, abandoned dumps, closed landfills, existing or abandoned storage tanks, and hazardous liquid or gas pipelines. Discuss any potential environmental effects from pre-project site conditions that would be caused or exacerbated by project construction and operation. Identify measures to avoid, minimize, or mitigate adverse effects from existing contamination or potential environmental hazards. Include development of a Contingency Plan or Response Action Plan.**

The AUAR will review the Minnesota Pollution Control Agency's (MPCA) What's in My Neighborhood database and both Dakota County and Goodhue County's MPCA site inventory to determine if any known contaminated properties or potential environmental hazards are located within and adjacent to the AUAR study area.

- b. Project Related Generation/Storage of Solid Wastes – Describe solid wastes generated/stored during construction and/or operation of the project. Indicate method of disposal. Discuss potential environmental effects from solid waste handling, storage, and disposal. Identify measures to avoid, minimize, or mitigate adverse effects from the generation/storage of solid waste including source reduction and recycling.**

AUAR Guidance: Generally, only the estimated total quantity of municipal solid waste generated and information about any recycling or source separation programs of the RGU need to be included.

The AUAR will provide information on the estimated quantity of municipal solid waste to be generated during construction and operational phases of the development scenarios.

- c. Project Related Use/Storage of Hazardous Materials – Describe chemicals/hazardous materials used/stored during construction and/or operation of the project including method of storage. Indicate the number, location, and size of any above or below ground tanks to store petroleum or other materials. Discuss potential environmental effects from accidental spills or releases of hazardous materials. Identify measures to avoid, minimize, or mitigate**

adverse effects from the use/storage of chemicals/hazardous materials including source reduction and recycling. Include development of a spill prevention plan.

AUAR Guidance: Not required for an AUAR. Potential locations of storage tanks associated with commercial uses in the AUAR should be identified (e.g., gasoline tanks at service stations).

The AUAR will identify any potential future storage tanks anticipated as part of the proposed development and if any existing storage tanks are anticipated to be used under the development scenarios.

- d. Project Related Generation/Storage of Hazardous Wastes – Describe hazardous wastes generated/stored during construction and/or operation of the project. Indicate method of disposal. Discuss potential environmental effects from hazardous waste handling, storage, and disposal. Identify measures to avoid, minimize, or mitigate adverse effects from the generation/storage of hazardous wastes including source reduction and recycling.**

AUAR Guidance: Not required for an AUAR.

Not applicable.

14. FISH, WILDLIFE, PLANT COMMUNITIES, AND SENSITIVE ECOLOGICAL RESOURCES (RARE FEATURES)

- a. Describe fish and wildlife resources as well as habitats and vegetation on or near the site.**

AUAR Guidance: The description of fish and wildlife resources should be related to the habitat types depicted on the cover types of map. Any differences in impacts between development scenarios should be highlighted in the discussion.

No native plant communities or critical habitats under the jurisdiction of the United States Fish and Wildlife Service (USFWS) are located within the study area.²²

Habitats that can be found within the study area include grassland and woodlands. Wildlife that can be found within the study area include birds, small mammals, and insects. There are no areas of biodiversity significance within one mile of the study area. Additionally, there are no areas ecologically significant within one mile of the study area.

The AUAR will address the cover types for the existing conditions and the post-construction scenarios.

- b. Describe rare features such as state-listed (endangered, threatened, or special concern) species, native plant communities, Minnesota County Biological Survey Sites of Biodiversity Significance, and other sensitive ecological resources on or within close proximity to the site. Provide the license agreement number and/or correspondence number (ERDB) from which the data were obtained and attach the Natural Heritage letter from the DNR. Indicate if any**

²² USFWS. ND. Critical Habitat for Threatened & Endangered Species. Available at: <https://fws.maps.arcgis.com/home/webmap/viewer.html?webmap=9d8de5e265ad4fe09893cf75b8dbfb77>.

additional habitat or species survey work has been conducted within the site and describe results.

AUAR Guidance: For an AUAR, prior consultation with the DNR Division of Ecological Resources for information about reports of rare plant and animal species in the vicinity is required. Include the reference numbers called for on the EAW form in the AUAR and include the DNR's response letter. If such consultation indicates the need, an on-site habitat survey for rare species in the appropriate portions of the AUAR area is required. Areas of on-site surveys should be depicted on a map, as should any "protection zones" established as a result.

State-Listed Species

Kimley-Horn submitted a DNR Natural Heritage Information System (NHIS) review for the study area and area within a one-mile radius for state-listed threatened, endangered, and special concern species (*response is pending*). The results of the review will be discussed in the AUAR. Any potential impacts to wildlife habitat, federally listed species, and state-listed species will be provided in the AUAR.

Federally-Listed Species

The U.S. Fish and Wildlife (USFWS) Service Information for Planning and Conservation (IPaC) tool was used to identify federally-listed species within or near the AUAR study area. This review identified two federally-listed endangered species, the Northern Long-eared Bat (*Myotis septentrionalis*) and Minnesota Dwarf (*Erythronium propullans*), and one federally-listed threatened species, prairie bush-clover (*Lespedeza leptostachya*). This review also identified, one federally-listed candidate species, monarch butterfly (*Danaus Plexippus*) and one experimental population, whooping crane (*Grus americana*).

Northern Long-Eared Bat

A record for the Northern Long-eared Bat (NLEB) is located within Dakota County, but not for Goodhue County. NLEB was designated a federally endangered species by USFWS in May 2015.²³ According to the Minnesota DNR, NLEB have been found in the winter in Minnesota in natural caves, sand mines, and iron mines. In summer, the species is often found within forested habitats, especially around wetlands. Roosting sites include loose bark, broken tree limbs, cavities, and cracks in a tree.²⁴ Given that the site area has been cultivated for agricultural use and does not contain caves or large expanses of forested habitat, the potential for the NELB to utilize the site is considered low. Potential impacts to the NLEB and mitigation measures will be discussed in the AUAR.

Monarch Butterfly

The Monarch butterfly is designated as proposed threatened by the USFWS. The preferred habitat for this species is prairie where milkweed and flowers are present. According to the USFWS, there are many potential reasons for the butterfly's decline, including habitat loss at

²³ USFWS. Northern Long-Eared Bat. Available at: <https://ecos.fws.gov/ecp/species/9045>

²⁴ Minnesota DNR. *Rare Species Guide*. Available at: <https://www.dnr.state.mn.us/rsg/profile.html?action=elementDetail&selectedElement=AMACC01150>

breeding and overwintering sites, disease, pesticides, logging at overwintering sites, and climate change.²⁵ The Monarch butterfly is currently a candidate species and is not yet listed or proposed for listing; consultation with USFWS is not required for candidate species.

Whooping Crane

The whooping crane is designated as an experimental population, non-essential species by the USFWS. Non-essential experimental populations are treated as threatened species on National Wildlife Refuge and National Park land (require consultation under 7(a)(2) of the ESA) and as a proposed species on private land (no section 7(a)(2) requirements, but Federal agencies must not jeopardize their existence (section 7(a)(4))). The preferred habitat for the species includes shallow marshes and adjacent, open grasslands.²⁶ The project will not occur on federal land; therefore, consultation with USFWS is not required for the species.

Minnesota Dwarf Trout Lily

Minnesota dwarf trout lily is designated endangered caused by habitat destruction. The preferred habitat for the species includes floodplains and forest lands.²⁷ Given that the study area has been cultivated for agricultural use, the potential for the Minnesota dwarf trout lily to remain on site is low. Potential impacts to Minnesota dwarf trout lily and mitigation measures will be discussed in the AUAR.

Prairie Bush-Clover

Prairie bush-clover is designated threatened by the USFWS. The preferred habitat for the species includes upland prairies and rock outcrops.²⁸ Given that the vast majority of the study area has been cultivated for agricultural use, and other grassland areas are manicured roadside right-of-ways, the potential for the prairie bush-clover to remain on site is low. Potential impacts to prairie bush-clover and mitigation measures will be discussed in the AUAR.

- c. Discuss how the identified fish, wildlife, plant communities, rare features, and ecosystems may be affected by the project. Include a discussion on introduction and spread of invasive species from the project construction and operation. Separately discuss effects to known threatened and endangered species.**

Invasive Species

Invasive species are a major cause of biodiversity loss and are considered biological pollutants by the DNR. Invasive species can be moved on construction equipment, landscaping equipment, and other debris. The AUAR will include a discussion on best management practices to prevent the introduction and spread of invasive species during construction and operation.

²⁵ USFWS. Monarch Butterfly. Available at: <https://ecos.fws.gov/ecp/species/9743>

²⁶ USFWS. Whooping Crane. Available at: <https://ecos.fws.gov/ecp/species/758>

²⁷ Minnesota Department of Natural Resources. 2024. *Rare Species Guide*. Available at: <https://www.dnr.state.mn.us/rsg/profile.html?action=elementDetail&selectedElement=PMLILOU0D0>.

²⁸ Minnesota Department of Natural Resources. 2024. *Rare Species Guide*. Available at: <https://www.dnr.state.mn.us/rsg/profile.html?action=elementDetail&selectedElement=PDFAB27090>.

Stormwater

Stormwater run-off can cause a number of environmental problems. When stormwater drains off a construction site, it can carry sediment and pollutants that harm lakes, rivers, streams, and wetlands which in turn may harm wildlife. Strategies for stormwater management and treatment of stormwater run-off within the study area will be discussed in Section 12 of the AUAR.

Impacts to protected species and habitats

The AUAR will further investigate the potential for impacts to any federally listed species, state-listed species, or protected wildlife habitats.

d. Identify measures that will be taken to avoid, minimize, or mitigate adverse effects to fish, wildlife, plant communities, and sensitive ecological resources.

The AUAR will address any potential mitigation measures identified by the DNR and USFWS to minimize and avoid adverse impacts to any protected species and wildlife habitats.

15. HISTORIC PROPERTIES

Describe any historic structures, archeological sites, and/or traditional cultural properties on or in close proximity to the site. Include 1) historic designations; 2) known artifact areas; and 3) architectural features. Attach letter received from the Minnesota State Historic Preservation Office (SHPO). Discuss any anticipated effects to historic properties during project construction and operation. Identify measures that will be taken to avoid, minimize, or mitigate adverse effects to historic properties.

AUAR Guidance: For an AUAR, contact with the State Historic Preservation Office and State Archeologist is required to determine whether there are areas of potential impacts to these resources. If any exist, an appropriate site survey of high probability areas is needed to address the issue in more detail. The mitigation plan must include mitigation for any impacts identified.

According to the State Historic Preservation Office, no above-ground historic resources are identified within the study area on the available public map.²⁹ Further, no identified archaeological resources are located within the study area, per the Minnesota Office of the State Archaeologist. The closest archaeological sites are located adjacent to southeastern boundary of the study area, and one located approximately 0.5 mile to the west of the study area.³⁰ The AUAR will discuss the results of this database review and any potential impacts to archaeological, historical, and/or architectural resources as well as any applicable mitigation strategies.

²⁹ MnDOA. Minnesota's Statewide Historic Inventory. Available at: <https://mnship.gisdata.mn.gov/>

³⁰ MnOSA. MN OSA Public Viewer. Available at: <https://osaportal.gisdata.mn.gov/OSAViewer>.

16. VISUAL

Describe any scenic views or vistas on or near the project site. Describe any project related visual effects such as vapor plumes or glare from intense lights. Discuss the potential visual effects from the project. Identify any measures to avoid, minimize, or mitigate visual effects.

AUAR Guidance: Any impacts on scenic views and vistas present in the AUAR should be addressed. This would include both direct physical impacts and impacts on visual quality or integrity. EAW Guidelines contains a list of possible scenic resources.

If any non-routine visual impacts would occur from the anticipated development, this should be discussed here along with appropriate mitigation.

There are no scenic views or vistas on or near the AUAR study area. The AUAR will discuss any potential visual impacts of the proposed development scenarios on the surrounding area and any applicable mitigation strategies.

17. AIR

- a. Stationary Source Emissions – Describe the type, sources, quantities, and compositions of any emissions from stationary sources such as boilers or exhaust stacks. Include any hazardous air pollutants, criteria pollutants, and any greenhouse gases. Discuss effects to air quality including any sensitive receptors, human health, or applicable regulatory criteria. Include a discussion of any methods used to assess the project’s effect on air quality and the results of that assessment. Identify pollution control equipment and other measures that will be taken to avoid, minimize, or mitigate adverse effects from stationary source emissions.**

AUAR Guidance: This item is not applicable to an AUAR. Any stationary air emissions source large enough to merit environmental review requires individual review.

Not applicable to an AUAR.

- b. Vehicle Emissions – Describe the effect of the project’s traffic generation on air emissions. Discuss the project’s vehicle-related emissions effect on air quality. Identify measures (e.g., traffic operational improvements, diesel idling minimization plan) that will be taken to minimize or mitigate vehicle-related emissions.**

AUAR Guidance: Although the MPCA no longer issues Indirect Source Permits, traffic-related air quality may still be an issue if the analysis in Item 18 indicates that development would cause or worsen traffic congestion. The general guidance from the EAW form should still be followed. Questions about the details of air quality analysis should be directed to MPCA staff.

The Minnesota Department of Transportation (MnDOT) has developed a screening method designed to identify intersections that will not cause a carbon monoxide (CO) impact above state standards. MnDOT has demonstrated that even the 10 highest traffic volume intersections in the Twin Cities do not experience CO impacts. Therefore, intersections with traffic volumes lower than these 10 highest intersections will not cause a CO impact above state standards. MnDOT’s screening method demonstrates that intersections with total daily approaching traffic

volumes below 82,300 vehicles per day will not have the potential for causing CO air pollution problems. None of the intersections in the study area exceed the criteria that would lead to a violation of the air quality standards.³¹

No further air quality analysis is anticipated for the AUAR.

- c. Dust and Odors – Describe sources, characteristics, duration, quantities, and intensity of dust and odors generated during project construction and operation. (Fugitive dust may be discussed under Item 16a). Discuss the effect of dust and odors in the vicinity of the project including nearby sensitive receptors and quality of life. Identify measures that will be taken to minimize or mitigate the effects of dust and odors.**

AUAR Guidance: Dust and odors need not be addressed in an AUAR, unless there is some unusual reason to do so. The RGU might want to discuss as part of the mitigation plan, however, any dust control ordinances in effect.

The AUAR will include discussion of dust control ordinances, including best management practices that would be applicable during demolition and construction within the AUAR study area. Any demolition activities must comply with state and federal regulations that require inspection of the structure for hazardous materials such as asbestos, lead based paint, light ballasts, thermostats, stored chemicals, and ozone depleting chemicals.

18. GREENHOUSE GAS (GHG) EMISSIONS/CARBON FOOTPRINT

- a. GHG Quantification – For all proposed projects, provide quantification and discussion of project GHG emissions. Include additional rows in the tables as necessary to provide project-specific emission sources. Describe the methods used to quantify emissions. If calculation methods are not readily available to quantify GHG emissions for a source, describe the process used to come to that conclusion and any GHG emission sources not included in the total calculation.**

About Greenhouse Gases (GHGs)

Certain gases in the earth's atmosphere, classified as greenhouse gases (GHGs), play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space. A portion of the radiation is absorbed by the earth's surface and a smaller portion of this radiation is reflected back toward space. This absorbed radiation is then emitted from the earth as low-frequency infrared radiation. The frequencies at which bodies emit radiation are proportional to temperature. Because the earth has a much lower temperature than the sun, it emits lower-frequency radiation. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead "trapped," resulting in a warming of

³¹ MnDOT. Traffic Mapping Application. Available at:
<https://mndot.maps.arcgis.com/apps/webappviewer/index.html?id=7b3be07daed84e7fa170a91059ce63bb>

the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on earth.

The primary GHGs contributing to the greenhouse effect are carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). Fluorinated gases also make up a small fraction of the GHGs that contribute to climate change. Examples of fluorinated gases include chlorofluorocarbons (CFCs), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃); however, it is noted that these gases are not associated with typical land use development. Human-caused emissions of GHGs exceeding natural ambient concentrations are believed to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the earth's climate, known as global climate change or global warming.³²

Project Related GHG Emissions

The AUAR will include an estimated quantification of the following GHG emissions associated with the proposed scenarios:

- Carbon dioxide (CO₂)
- Nitrous oxide (N₂O)
- Methane (CH₄)

The projected GHG emissions will be provided on an average annual basis using the CO₂ equivalent (CO₂e) and include the proposer's best estimate of average annual emissions over the proposed life/design service life of future development. The estimates will also include emissions from the construction and operating phases of the scenario. Emissions will be estimated using the US Environmental Protection Agency's Simplified GHG Emissions Calculator (SGEC) (Version 7 June 2021)³³ and will be summarized by project phase (i.e., construction and operations) and source type (e.g., combustion from mobile equipment, off-site electricity).

b. GHG Assessment

i. Describe any mitigation considered to reduce the project's GHG emissions.

The AUAR will describe potential design strategies and sustainability measures for the proposed scenarios to reduce emissions.

ii. Describe and quantify reductions from selected mitigation, if proposed to reduce the project's GHG emissions. Explain why the selected mitigation was preferred.

The AUAR will describe and quantify reductions from selected mitigation options.

iii. Quantify the proposed project's predicted net lifetime GHG emissions (total tons per number of years) and how those predicted emissions may affect achievement of the Minnesota Next Generation Energy Act goals and/or other more stringent state or local GHG reduction goals.

³² Summarized from U.S. EPA, Overview of Greenhouse Gases: <https://www.epa.gov/ghgemissions/overview-greenhouse-gases>

³³ Source: <https://www.epa.gov/climateleadership/simplified-ghg-emissions-calculator>

The Next Generation Energy Act requires the state to reduce greenhouse gas emissions in the state by 80 percent between 2005 and 2050, while supporting clean energy, energy efficiency, and supplementing other renewable energy standards in Minnesota. The MPCA's biennial GHG emissions reduction report from 2023 identifies strategies for reducing emissions in the three economic sectors with the highest emissions – transportation, electricity generation, and agriculture, forestry, and land use.

The AUAR will discuss the expected lifespan of the project and calculate how many estimated metric tons of CO₂ will be emitted over the project's lifespan. The proposer will evaluate implementing the sustainability measures described in the AUAR. To reduce operational emissions to the extent practicable. The proposed project will be built in compliance with state regulations and city code.

19. NOISE

Describe sources, characteristics, duration, quantities, and intensity of noise generated during project construction and operation. Discuss the effect of noise in the vicinity of the project including 1) existing noise levels/sources in the area; 2) nearby sensitive receptors; 3) conformance to state noise standards; and 4) quality of life. Identify measures that will be taken to minimize or mitigate the effects of noise.

AUAR Guidance: Construction noise need not be addressed in an AUAR, unless there is some unusual reason to do so. The RGU might want to discuss as part of the mitigation plan, however, any construction noise ordinances in effect.

If the area will include or adjoin major noise sources, a noise analysis is needed to determine if any noise levels in excess of standards would occur, and if so, to identify appropriate mitigation measures. With respect to traffic-generated noise, the noise analysis should be based on the traffic analysis of Item 18.

Existing Noise

The AUAR study area is currently agricultural land, with the eastern portion of the study area zoned as industrial. The existing noise sources at the site consist mainly of the surrounding roadways.

Construction Noise

As stated in the AUAR guidelines, construction noise need not be addressed unless there is some unusual reason to do so. No unusual circumstances have been identified that would necessitate a detailed construction noise analysis. The City's municipal code regulates the hours of operation for construction equipment. Construction activities are permitted between the hours of 7:00 a.m. and 10:00 p.m.³⁴ Construction of the proposed project would comply with these requirements.

³⁴ City of Cannon Falls. 2022. *Cannon Falls, MN Code or Ordinances Section 91.16*. Available at: https://codelibrary.amlegal.com/codes/cannonfalls/latest/cannonfalls_mn/0-0-0-1959.

Traffic Generated Noise

A sound increase of 3 dBA is barely noticeable by the human ear, a 5 dBA increase is clearly noticeable, and a 10 dBA increase is heard as twice as loud. For example, if the sound energy is doubled (i.e., the amount of traffic doubles), there is a 3 dBA increase in noise, which is just barely noticeable to most people. On the other hand, if traffic increases by a factor of 10, the resulting sound level will increase by about 10 dBA and be heard as twice as loud.

Traffic volumes in the project area are either on roadways that do not have receivers that are sensitive to noise, or the traffic levels attributable to the project are well below the amount that would generate a sound increase that could be noticeable.

The change in traffic noise levels is not anticipated to be readily perceptible.

Operational Noise

According to the City's Code of Ordinances, noises emanating from any use shall comply with and be regulated by the State of Minnesota pollution control standards and rules.³⁵ As such, all future development will be required to comply with these requirements. The AUAR will include a discussion of operational noise and identify potential operational noise mitigation measures.

20. TRANSPORTATION

- a. Describe traffic-related aspects of project construction and operation. Include 1) existing and proposed additional parking spaces; 2) estimated total average daily traffic generated; 3) estimated maximum peak hour traffic generated and time of occurrence; 4) source of trip generation rates used in the estimates; and 5) availability of transit and/or other alternative transportation modes.**

The information listed above will be provided in the traffic and transportation analysis that will be included in the AUAR. Coordination will occur with the City of Cannon Falls, Dakota County, and Goodhue County to determine analysis scenarios and trip generation for the traffic study. The trip generation will be calculated based on the latest edition of the Institute of Transportation Engineers (ITE) Trip Generation, 11th Edition.

Transit

Currently, there are no convenient alternative transportation routes serving the study area. It is not anticipated that there will be significant change in transit usage.

Bike and Pedestrian Infrastructure

There are no existing bike or pedestrian infrastructure within or near the study area.

- b. Discuss the effect on traffic congestion on affected roads and describe any traffic improvements necessary. The analysis must discuss the project's impact on the regional transportation system. If the peak hour traffic generated exceeds 250 vehicles or the total daily trips exceeds 2,500, a traffic impact study must be prepared as part of the EAW. Use the**

³⁵ City of Cannon Falls. 2022. *Cannon Falls, MN Code of Ordinances Section 152.191*. Available at: https://codelibrary.amlegal.com/codes/cannonfalls/latest/cannonfalls_mn/0-0-0-7064.

format and procedures described in the Minnesota Department of Transportation’s Access Management Manual, Chapter 5 (available at: <http://www.dot.state.mn.us/accessmanagement/resources.html>) or a similar local guidance.

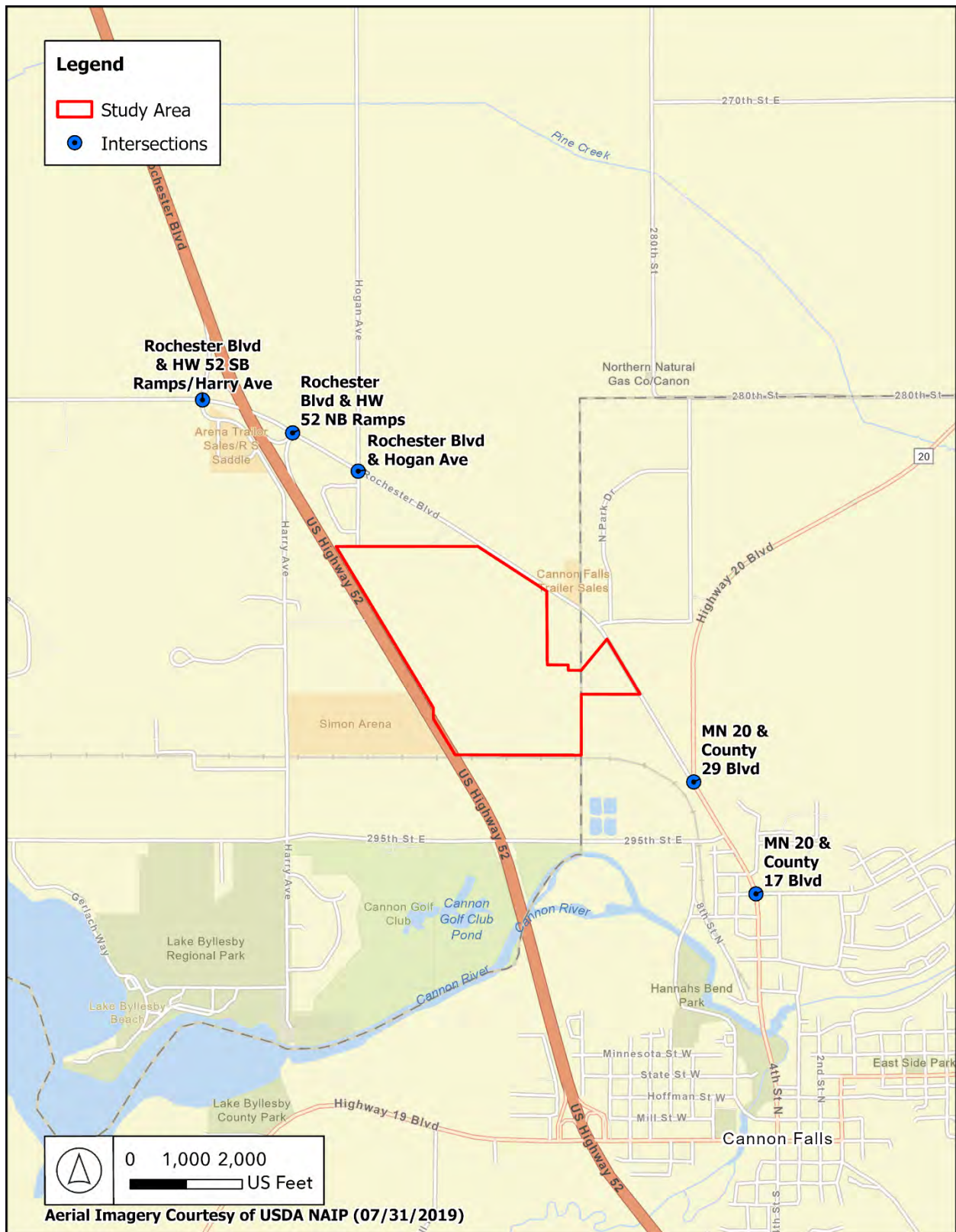
AUAR Guidance: For AUAR reviews, a detailed traffic analysis will be needed, conforming to the MnDOT guidance as listed on the EAW form. The results of the traffic analysis must be used in the response to Items 16 and 17.

A traffic impact study will be completed as part of the AUAR because the trip generation is anticipated to exceed the 250-trip peak hour vehicle threshold. The traffic impact study will be summarized in the AUAR, including information on estimated traffic generation, traffic impacts, relevant information from relevant transportation plans and traffic studies, and potential improvements and mitigation measures. The analysis will be completed for existing conditions as well as future no-build and build conditions for the opening year of the development and the 20 year forecasted condition. The AUAR will include intersection capacity analyses for intersections adjacent to the AUAR study area and will include the review of intersection operations at site access points. The following intersections will be included in the analysis and are shown in Figure 13:

- Rochester Boulevard & Highway 52 SB Ramps/Harry Avenue
 - Rochester Boulevard & Highway 52 NB Ramps
 - Rochester Boulevard & Hogan Avenue
 - County 29 Boulevard & Cannon Falls Boulevard (MN 20)
 - County 29 Boulevard (MN 20) & County 17 Boulevard
- c.** Identify measures that will be taken to minimize or mitigate project related transportation effects.

The AUAR will address any mitigation measures identified through the traffic analysis.

Figure 13: Traffic Study Intersections



21. CUMULATIVE POTENTIAL EFFECTS

AUAR Guidance: Because the AUAR process by its nature is intended to deal with cumulative potential effects from all future developments within the AUAR area, it is presumed that the responses to all items on the EAW form automatically encompass the impacts from all anticipated developments within the AUAR area.

However, the total impact on the environment with respect to any of the items on the EAW form may also be influenced by past, present, and reasonably foreseeable future projects outside of the AUAR area. The cumulative potential effect descriptions may be provided as part of the responses to other appropriate EAW items, or in response to this item.

a. Describe the geographic scales and timeframes of the project related environmental effects that could combine with other environmental effects resulting in cumulative potential effects.

Cumulative effects are defined as the “effect on the environment that results from the incremental effects of a project in addition to other projects in the environmentally relevant area that might reasonably be expected to affect the same environmental resources, including future projects actually planned or for which a basis of expectation has been laid, regardless of what person undertakes the other projects or what jurisdictions have authority over the projects.”³⁶ The geographic areas considered for cumulative effects are those areas adjacent to the AUAR study area, and the timeframe considered includes projects that would be constructed in the reasonably foreseeable future (by 2030).

b. Describe any reasonably foreseeable future projects (for which a basis of expectation has been laid) that may interact with environmental effects of the proposed project within the geographic scales and timeframes identified above.

The AUAR will identify any additional reasonably foreseeable projects that may interact with the environmental effects of either development scenario.

c. Discuss the nature of the cumulative potential effects and summarize any other available information relevant to determining whether there is potential for significant environmental effects due to these cumulative effects.

The AUAR will include a discussion of potential cumulative effects associated with nearby ongoing or planned projects.

³⁶ Minnesota Rules, part 4410.0200, subpart 11a

22. OTHER POTENTIAL ENVIRONMENTAL EFFECTS

AUAR Guidance: If the project may cause any additional environmental effects not addressed by Items 1 to 19, describe the effects here, discuss the how the environment will be affected, and identify measures that will be taken to minimize and mitigate these effects.

Additional Environmental Effects

Any other potential environmental effects will be addressed in the AUAR.

Attachment B

Introduction

Pursuant to Minnesota Rules, part 4410.3610, subpart 5c, the Responsible Governmental Unit (RGU) shall revise the environmental analysis document based on comments received during the comment period. The RGU shall include in the document a section specifically responding to each timely, substantive comment received that indicates in what way the comment has been addressed.

The 30-day Scoping Environmental Assessment Worksheet (EAW) comment period began March 4, 2025, and comments were accepted through April 3, 2025. Three (3) comment letters were received from government agencies. One (1) comment letter was received from a member of the public. Responses to those comments are included in the following sections.

1. Dakota County

Comment	Response
Traffic	
Transportation staff agrees with the intersections identified for analysis as part of the AUAR and Traffic Study. We request that you also include the County State Aid Highway (CSAH) 88 (295th Street East) and Harry Avenue intersection to your analysis to provide verification of future traffic volumes.	Comment noted. Kimley-Horn will continue to work with Dakota County on the intersections to be studied as part of the proposed development. If it is determined a necessary intersection to be studied, it will be added to the AUAR.
Environmental	

<p>Dakota County Well Inspectors, reviewed previous audits, historic plat maps, sanborns, historic aerial photography, well construction records, well sealing records and/or well disclosure statements that Dakota County has available for Taxpins 310010051010, 310010085010, 310010090011 (28701 ROCHESTER BLVD), and 310120001012 (9229 295TH ST E). Although only part of the property at 28701 ROCHESTER BLVD is included in the AUAR proposed site boundary, for the purposes of this audit, all of 28701 ROCHESTER BLVD is included and a well search may need to be coordinated with the property owner of 28701 ROCHESTER BLVD depending on exactly how the parcel ends up being split. Until the older, undocumented well mentioned below is found, it is difficult to say whether it will be found on the east or west side of the boundary line once it is finalized. North of the railroad track, there is one in use domestic well record (MUN 503465) and one in-use irrigation well (MUN 751667), as well as at least one older, undocumented well that served 28701 ROCHESTER BLVD from 1930 until 1989 at which time MUN 503465 was drilled (records available upon request). If the in-use wells are no longer needed they should be sealed by a licensed well contractor. The older, undocumented well must be located and sealed by a licensed well contractor.</p> <p>If redevelopment is planned, crews should be notified of the likely presence of wells and any wells encountered should be protected from damage and contamination. If any wells are discovered during site visits and/or during redevelopment, they should be examined by a licensed well contractor or a Dakota County well inspector to determine the status. A magnetometer is the best, sometimes only way to locate wells that are below grade.</p> <p>Dakota County can help locate and mark wells using a magnetometer by calling 952-891-7537. Magnetometers work best on a clear site free from large metal obstructions. A Dakota County well inspector must be present during any well searches to rule out the presence of the older, undocumented well. Information about property transfer requirements as they pertain to wells is on our webpage at https://www.co.dakota.mn.us/HomeProperty/SellingProperty/WellRequirements. If a real estate sale is occurring, it is in the interest of both parties that a well disclosure be filed if appropriate and any well compliance issues be resolved. State Statute 103I Section 235 Subdivision 2 states, "Unless the buyer and seller agree to the contrary, in writing, before the closing of the sale, a seller who fails to disclose the existence or known status of a well at the time of sale and knew or had reason to know of the existence or known status of the well, is liable to the buyer for costs relating to sealing of the well and reasonable attorney fees for collection of costs from the</p>	<p>Comment noted. More information about the wells within the Study Area will be discussed.</p>
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Comment	Response
seller, if the action is commenced within six years after the date the buyer closed the purchase of the real property where the well is located."	
Permits and Approvals	
Add to Table 4 under Dakota County "Dewatering well Permit" and change "Well closure permit" to "Well Sealing Permit".	Comment noted. This will be added to the permits and approvals table.
Geology	
<p>The MN Department of Natural Resources (DNR) has produced and updates several maps that delineate the vulnerability of groundwater to contamination. The majority of the AUAR study area is mapped as Karst and the eastern portion is mapped a highly vulnerable on the DNR Pollution Sensitivity of Near Surface Materials Map available at https://www.dnr.state.mn.us/waters/groundwater_section/mapping/mn-hydro-atlas.html. The dataset for the map estimates the pollution sensitivity of near surface materials from the transmission time of water through 3 feet of soil and 7 feet of surficial geology to a depth of 10 feet from the land surface. According to the DNR Pollution Sensitivity of the Bedrock Surface available at https://www.dnr.state.mn.us/waters/groundwater_section/mapping/mn-hydro-atlas.html, the entire AUAR study area is mapped as highly sensitive. This map is of the sensitivity to groundwater pollution based on characteristics of rock and sediment known to overlie the Bedrock. Due to the vulnerability of groundwater to contamination, effort should be made to minimize the use of chemicals on the AUAR study area. Lawn care fertilizers and herbicides can impact the groundwater and drinking water aquifers. Providing thick, quality topsoil and a subsequent inspection to verify that it was provided in areas for lawn and landscaping is recommended. To reduce the need for chemicals and irrigation, plant native, drought tolerant landscape plants and tall fescue for lawn areas. Additionally, to mitigate additional winter salt use associated with the planned increase in impervious surfaces, the project proposer should implement a chloride management plan for the proposed development. Consider winter- smart design of parking lots to reduce deicing salt and its impacts to aquatic life and water quality. Keep the angle of the sun in mind to ensure it reaches and melts critical icy patches. Consider the direction of prevailing winter wind to prevent drifting snow, plant trees to create a living snow fence. Implement pavement alternatives such</p>	<p>Comment noted. More information related on potential karst features and pollution prevention will be included in the AUAR.</p>

Comment	Response
<p>a permeable pavement. Minimize the flow of meltwater across roads and parking lots to mitigate refreezing across roads to reduce the need for deicing salt.</p>	
<p>Groundwater</p>	
<p>The construction record for the irrigation well located within the AUAR study area, MN Unique Well number 751667 is available on internet on the Minnesota Well Index at Minnesota Hydrogeology Atlas (MHA) Minnesota DNR www.health.state.mn.us/communities/environment/water/mwi/index.html. See attached well record. The well was completed on April 17, 2008. The Prairie du Chien bedrock was encountered at 26 feet, the well is cased to 32 feet, the total depth is 265 feet and the static water level was 18 feet at the time of well completion. Should dewatering be required during any construction or utility phase in Dakota County, the well contractor must apply to the Dakota County Well Management Program for a dewatering permit. The well can be retained for nonpotable water use if the isolation distances in MN Statutes, section 103I.205, subdivision 6 are met. The volume of water use will determine if a DNR Appropriation Permit is required. Should the well no longer be needed, a licensed water well contractor is required to seal the well. The contractor will obtain a Well Sealing Permit from the Dakota County Well Management Program.</p> <p>The AUAR study area that intersects the City of Cannon Falls drinking water supply management area is mapped as moderately sensitive to pollution.</p>	<p>Comment noted. More information related to the City of Cannon Falls drinking water supply management area and the onsite wells will be included in the AUAR.</p>

2. North Cannon River Watershed Management Organization

Comment	Response
<i>Water Use and Discharge</i>	
<p>Is there anything more you can say on water use and discharge within the AUAR than what is in the scoping document? I understand that the water source would be the Cannon Falls municipal wells, and you will evaluate the City's ability to supply that amount of water. In addition to your ability to supply the volume of water needed, please consider the potential impact of that volume of withdrawal on long-term water supply for our agricultural producers with irrigation wells and private residential wells in the vicinity. I make that comment based on other recent technology center proposals that have significant water need, beyond a normal industrial development. I understand that it's unlikely that you have all that information. In whatever agreement you are forming with the technology company, I support having incentivizing language that will encourage the company to continually explore technological improvements that lower water volume usage and improve water quality of discharge as they seek to meet their equipment cooling needs.</p>	<p>Comment noted. Information related to water use and discharge will be included in the AUAR. If an amendment to the City's water appropriations permit is needed, this will be discussed in the AUAR, and the process will be outlined in the AUAR Mitigation Plan.</p>
<p>The issue of data centers water usage was not on the radar when we completed our North Cannon River WMO watershed plan in 2023, but based on conversation with the board in January the key issues was ensuring water supply for agricultural and residential wells and not have the discharge set us back on the efforts we are doing to improve water quality (surface and groundwater). We recognize that discharge quality will vary a lot depending on whether its single pass cooling (good quality, but high-water volume used) and close-loop systems (unknown quality, but concentrated impurities, but lower water volume).</p>	<p>Comment noted. Comment noted. Information related to water use and discharge will be included in the AUAR. If an amendment to the City's water appropriations permit is needed, this will be discussed in the AUAR, and the process will be outlined in the AUAR Mitigation Plan.</p>

3. Minnesota Department of Natural Resources

Comment	Response
<p>Page 8, Table 2. Climate Considerations and Adaptations. As energy needs and renewable energy goals put further pressure on agricultural lands, some communities have started to tap into industrial facilities to combine development with energy production through the use of rooftop solar. Installing solar panels on industrial facilities has the added benefit of producing energy right where it is needed without any additional facility footprint. We encourage the City as well as local energy providers to explore the feasibility of combining these land uses to help meet state climate goals as the City plans for the future. A recent news article mentioned that the data center proposed for this site under Scenario 2 would require 500 MW of electricity, the equivalent use of a small city. The AUAR should clearly describe the electricity needs of the proposed scenarios, how this energy would be obtained, and how this use would impact other users and Minnesota's 2040 renewable energy goals.</p> <p>We encourage the developer (especially for Scenario 2) to consider installing water reuse systems to reduce water usage, and utilize other water conservation measures to the greatest extent possible.</p>	<p>Comment noted. More information will be discussed in the AUAR. The AUAR will discuss potential water conservation and reuse systems.</p>
<p>Page 22, Geology. This section states that there are no karst conditions located within or near the study area, but does not mention that the project area is largely within mapped region prone to surface karst feature development. This should be discussed further in the AUAR.</p> <p>We encourage each city to fully explore mining potential for sand and gravel prior to encumbering an area with development in order to balance the need for resources with development expansion. The project area is partially mapped as having good to moderate quality aggregate potential for sand and gravel. It is not clear if this area has already been mined. This should be discussed further in the AUAR.</p>	<p>Comment noted. Geologic features will be discussed in the AUAR.</p>
<p>Page 32, Groundwater. Please note that there are two Minnesota springs (#25S0000044, #25S0000045) documented on southeastern edge of project area.</p>	<p>Comment noted. These features will be discussed in the AUAR.</p>
<p>Page 36, Stormwater. DNR recommends utilizing stormwater for landscape irrigation. The re-use of stormwater for irrigation would reduce the volume of stormwater and conserve valuable groundwater.</p>	<p>Comment noted. Stormwater reuse will be discussed in the AUAR.</p>

Comment	Response
<p>Page 37, Water Appropriation. A DNR Water Appropriation Permit is required if the water pumped exceeds 10,000 gallons in a day, or one million gallons in one year. The DNR General Permit for Temporary Appropriation, with its lower permit application fee and reduced time for review, may be used for the dewatering if the dewatering volume is less than 50 million gallons and the time of the appropriation is less than one year. The project area is within the vicinity of designated trout streams, which are protected by the DNR. Additional regulation and review may be required when permitting within five miles of a designated trout stream.</p>	<p>Comment noted.</p>

<p>Page 37, Water Appropriation. The AUAR should address the water demands for each development scenario, the existing and proposed infrastructure needs for the city water system to fulfill those water supply demands, and specific volumes that may be available from alternative water sources. It will be important for the upcoming AUAR to follow the AUAR Guidance in the instructions that says, “If the area requires new water supply wells, specific information about that appropriation and its potential impacts on groundwater levels should be given; if groundwater levels would be affected, any impacts resulting on other resources should be addressed.” In the upcoming AUAR, please include:</p> <ol style="list-style-type: none"> Describe the source, quantity, duration, use, and purpose of the water use and if a DNR water appropriation permit is required. If connecting to an existing municipal water supply, identify the wells to be used as a water source and any effects on, or required expansion of, municipal water infrastructure. Discuss environmental effects from water appropriation, including an assessment of the water resources available for appropriation. Discuss how the proposed water use is resilient in the event of changes in total precipitation, large precipitation events, drought, increased temperatures, variable surface water flows and elevations, and longer growing seasons. Identify any measures to avoid, minimize, or mitigate environmental effects from the water appropriation. Describe contingency plans should the appropriation volume increase beyond infrastructure capacity or water supply for the project diminish in quantity or quality, such as reuse of water, connections with another water source, or emergency connections. If the area requires new water supply wells, specific information about that appropriation and its potential impacts on groundwater levels should be given; if groundwater levels would be affected, any impacts resulting on other resources should be addressed. Where it is uncertain whether water resources will be impacted depending on the exact design of future development, the AUAR should cover the 	<p>Comment noted. More information related to water demand, permitting volume, and production capabilities will be documented in the AUAR. The AUAR will also discuss if a need to modify the existing water appropriations permits is required for any proposed development within the AUAR Study Area.</p>
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Comment	Response
<p>possible impacts through a “worst case scenario” or else prevent impacts through the provisions of the mitigation plan.</p>	
<p>Page 38, Contaminants. Because the project area is partially located within a wellhead protection area (Cannon Falls) and a DWSMA (Cannon Falls), potential pollutants need to be handled with care to protect the drinking water of the city.</p>	<p>Comment noted. More information will be incorporated into the AUAR.</p>
<p>Page 39, Rare Features. Please note that DNR issued a Natural Heritage Review letter (MCE# 2024-00569) on July 30, 2024 for this project. Please refer to this letter when completing the rare features section of the upcoming AUAR, and include the letter (attached) in the Appendix. Please note the following with respect to rare features:</p> <ul style="list-style-type: none"> a. Endangered Species Loggerhead shrike (<i>Lanius ludovicianus</i>)- Avoid tree and shrub removal from April through July. If this is not feasible, hire a DNR qualified surveyor to check trees and shrubs for active nests. Requirements for surveys and lists of DNR certified lists of surveyors can be found at the Natural Heritage Review website. b. Species of Special Concern <ul style="list-style-type: none"> i. Lark sparrow (<i>Chondestes grammacus</i>) and Bell’s vireo (<i>Vireo bellii</i>) – Avoid initial disturbance to grassland areas and tree/shrub removal from May 15 through August 15 to avoid disturbance of nesting birds. ii. North American racer (<i>Coluber constrictor</i>), a state-listed species of special concern, has been documented in the vicinity of the proposed project and may be encountered on site. Given the presence of these rare snakes, the DNR recommends that the use of erosion control mesh, if any, be limited to wildlife-friendly materials. iii. Bats - Avoid tree removal be avoided from June 1 through August 15. c. To ensure compliance with federal law, please conduct a federal regulatory review using the U.S. Fish and Wildlife Service’s online Information for Planning and Consultation (IPaC) tool. 	<p>Comment noted. The letter will be included in the AUAR. Tree removal timing restrictions will be incorporated into the mitigation strategies of the AUAR.</p>

Comment	Response
<p>Page 44, Cumulative Potential Effects. It is unclear to what extent the development of multiple data centers in the region will increase water demand from existing aquifers. It is important to evaluate if the cumulative increase in water use will be sustainable. It is also important to identify the energy demands for the proposed data centers in the region and describe how these energy needs will compare to current city needs, and energy availability.</p>	<p>Comment noted. More information related to water demand and use will be documented in the AUAR.</p>

4. Public Comment – Brant Bell

Comment	Response
<p>I was just recently informed that Cannon Falls intends to take a large chunk of prime farm property from Randolph Township and stick a Data Center there right in my backyard. Lots of information to review as I need to get caught up but in review of some of the documents on the CF site it appears that Cannon Falls intends to eventually take another large section of the prime farmland across CR 86 from my property which is also Randolph Township. This plan of Cannon Falls appears to eventually surround my property with Industrial operations which is clearly not compatible with Rural Residential.</p> <p>This brings so many concerns beginning with the fact I'm in Randolph Township and being surrounded by Cannon Fall Industrial. I'm at 28365 Rochester Blvd, Randolph and my Father is next door at 28453 Rochester Blvd.</p> <p>I'll try to keep my questions to a minimum to start out.</p> <p>1. Clearly I should have been contacted directly along with my neighbors. When are we going to be properly notified?</p>	<p>Comment noted. More information for the AUAR and the project can be found at the project website. https://www.cannonfallsmn.gov/community/page/cannon-falls-technology-park</p>

Comment	Response
<p>2. How do we stay informed going forward?</p> <p>3. Has any consideration been given to Us the land owners who are very directly impacted by the Data Center?</p>	



April 2, 2025

City of Cannon Falls
Jon Radermacher
918 River Road
Cannon Falls, MN 55009

Thank you for the opportunity to review the Alternative Urban Areawide Review (AUAR) for the proposed Cannon Falls Industrial Development. Dakota County Physical Development staff reviewed the document and offer the following comments for consideration.

Transportation

Transportation staff agrees with the intersections identified for analysis as part of the AUAR and Traffic Study. We request that you also include the County State Aid Highway (CSAH) 88 (295th Street East) and Harry Avenue intersection to your analysis to provide verification of future traffic volumes.

Environmental Resources

Dakota County Well Inspectors, reviewed previous audits, historic plat maps, sanborns, historic aerial photography, well construction records, well sealing records and/or well disclosure statements that Dakota County has available for Taxpins 310010051010, 310010085010, 310010090011 (28701 ROCHESTER BLVD), and 310120001012 (9229 295TH ST E). Although only part of the property at 28701 ROCHESTER BLVD is included in the AUAR proposed site boundary, for the purposes of this audit, all of 28701 ROCHESTER BLVD is included and a well search may need to be coordinated with the property owner of 28701 ROCHESTER BLVD depending on exactly how the parcel ends up being split. Until the older, undocumented well mentioned below is found, it is difficult to say whether it will be found on the east or west side of the boundary line once it is finalized. North of the railroad track, there is one in-use domestic well record (MUN 503465) and one in-use irrigation well (MUN 751667), as well as at least one older, undocumented well that served 28701 ROCHESTER BLVD from 1930 until 1989 at which time MUN 503465 was drilled (records available upon request). If the in-use wells are no longer needed they should be sealed by a licensed well contractor. The older, undocumented well must be located and sealed by a licensed well contractor. If redevelopment is planned, crews should be notified of the likely presence of wells and any wells encountered should be protected from damage and contamination. If any wells are discovered during site visits and/or during redevelopment, they should be examined by a licensed well contractor or a Dakota County well inspector to determine the status. A magnetometer is the best, sometimes only way to locate wells that are below grade. Dakota County can help locate and mark wells using a magnetometer by calling 952-891-7537. Magnetometers work best on a clear site free from large metal obstructions. A Dakota County well inspector must be present during any well searches to rule out the presence of the older, undocumented well. Information about property

Physical Development Division

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transfer requirements as they pertain to wells is on our webpage at <https://www.co.dakota.mn.us/HomeProperty/SellingProperty/WellRequirements>. If a real estate sale is occurring, it is in the interest of both parties that a well disclosure be filed if appropriate and any well compliance issues be resolved. State Statute 103I Section 235 Subdivision 2 states, "Unless the buyer and seller agree to the contrary, in writing, before the closing of the sale, a seller who fails to disclose the existence or known status of a well at the time of sale and knew or had reason to know of the existence or known status of the well, is liable to the buyer for costs relating to sealing of the well and reasonable attorney fees for collection of costs from the seller, if the action is commenced within six years after the date the buyer closed the purchase of the real property where the well is located."

9. Permits and Approval Required

Add to Table 4 under Dakota County "Dewatering well Permit" and change "Well closure permit" to "Well Sealing Permit".

11.a. Geology

The MN Department of Natural Resources (DNR) has produced and updates several maps that delineate the vulnerability of groundwater to contamination. The majority of the AUAR study area is mapped as Karst and the eastern portion is mapped as highly vulnerable on the DNR Pollution Sensitivity of Near Surface Materials Map available at https://www.dnr.state.mn.us/waters/groundwater_section/mapping/mn-hydro-atlas.html. The dataset for the map estimates the pollution sensitivity of near surface materials from the transmission time of water through 3 feet of soil and 7 feet of surficial geology to a depth of 10 feet from the land surface. According to the DNR Pollution Sensitivity of the Bedrock Surface available at https://www.dnr.state.mn.us/waters/groundwater_section/mapping/mn-hydro-atlas.html, the entire AUAR study area is mapped as highly sensitive. This map is of the sensitivity to groundwater pollution based on characteristics of rock and sediment known to overlie the Bedrock. Due to the vulnerability of groundwater to contamination, effort should be made to minimize the use of chemicals on the AUAR study area. Lawn care fertilizers and herbicides can impact the groundwater and drinking water aquifers. Providing thick, quality topsoil and a subsequent inspection to verify that it was provided in areas for lawn and landscaping is recommended. To reduce the need for chemicals and irrigation, plant native, drought tolerant landscape plants and tall fescue for lawn areas. Additionally, to mitigate additional winter salt use associated with the planned increase in impervious surfaces, the project proposer should implement a chloride management plan for the proposed development. Consider winter-smart design of parking lots to reduce deicing salt and its impacts to aquatic life and water quality. Keep the angle of the sun in mind to ensure it reaches and melts critical icy patches. Consider the direction of prevailing winter wind to prevent drifting snow, plant trees to create a living snow fence. Implement pavement alternatives such as permeable pavement. Minimize the flow of meltwater across roads and parking lots to mitigate refreezing across roads to reduce the need for deicing salt.

12.ii. Groundwater

The construction record for the irrigation well located within the AUAR study area, MN Unique Well number 751667 is available on internet on the Minnesota Well Index at Minnesota Hydrogeology Atlas (MHA) | Minnesota DNR www.health.state.mn.us/communities/environment/water/mwi/index.html. See attached well record. The well was completed on April 17, 2008. The Prairie du Chien bedrock was encountered at 26 feet, the well is cased to 32 feet, the total depth is 265 feet and the static water level was 18 feet at the time of well completion. Should

Physical Development Division

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dewatering be required during any construction or utility phase in Dakota County, the well contractor must apply to the Dakota County Well Management Program for a dewatering permit. The well can be retained for non-potable water use if the isolation distances in MN Statutes, section 103I.205, subdivision 6 are met. The volume of water use will determine if a DNR Appropriation Permit is required. Should the well no longer be needed, a licensed water well contractor is required to seal the well. The contractor will obtain a Well Sealing Permit from the Dakota County Well Management Program.

The AUAR study area that intersects the City of Cannon Falls drinking water supply management area is mapped as moderately sensitive to pollution.

If you have any questions relating to these comments, please contact me at 952-891-7007 or Georg.Fischer@co.dakota.mn.us

Sincerely,

A handwritten signature in blue ink, appearing to read "Georg T. Fischer".

Georg T Fischer, Director
Physical Development Division

cc: Commissioner Mike Slavik, District 1
Heidi Welsch, County Manager

Physical Development Division

WELL OR BORING LOCATION

County Name

Dakota Co.

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Minnesota Statutes, Chapter 103I

MINNESOTA UNIQUE WELL
AND BORING NO.

751667

Township Name **Randolph** Township No. **112N** Range No. **18W** Section No. **1** Fraction **SW NW SE**

WELL/BORING DEPTH (completed)

265ft.

DATE WORK COMPLETED

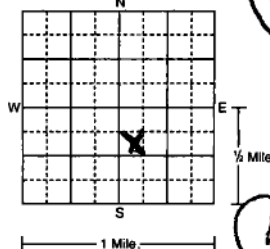
April 17th. 2008

GPS LOCATION: Latitude _____ degrees _____ minutes _____ seconds _____
Longitude _____ degrees _____ minutes _____ seconds _____

House Number, Street Name, City, and Zip Code of Well Location

or Fire Number

Show exact location of well/boring in section with "X."

Sketch map of well/boring location.
Showing property lines,
roads, buildings, and direction.

DRILLING METHOD

☐ Cable Tool
☐ Auger
☐

☐ Driven
☒ Rotary

☐ Dug
☐ Jetted

DRILLING FLUID

Bentonite/Foam

WELL HYDROFRACTURED? ☐ Yes ☒ No

From _____ ft. To _____ ft.

USE

☐ Domestic
☐ Noncommunity PWS
☐ Community PWS
☐ Elevator

☐ Monitoring
☐ Environ. Bore Hole
☒ Irrigation
☐ Dewatering

☐ Heating/Cooling
☐ Industry/Commercial
☐ Remedial

CASING MATERIAL

☒ Steel
☐ Plastic

Drive Shoe? ☒ Yes ☐ No
☐ Threaded ☒ Welded

HOLE DIAM.

CASING

Diameter

18 in.

to 32 ft.

to _____ ft.

to _____ ft.

Weight

70.59 lbs./ft.

Specifications

24 in. to 32 ft.

17 in. to 265 ft.

in. to _____ ft.

in. to _____ ft.

PROPERTY OWNER'S NAME/COMPANY NAME

Jim Simon

Property owner's mailing address if different than well location address indicated above.

28195 Harry Avenue

Cannon Falls, Minnesota 55009

SCREEN

Make _____

Type _____

Slot/Gauze _____

Set between _____ ft. and _____ ft.

OPEN HOLE

From 32 ft.

To 265 ft.

Diam. _____

Length _____

Fittings _____

STATIC WATER LEVEL

18 ft.

Below ☒ Above land surface

Measured from

Date measured

2/08/08

PUMPING LEVEL (below land surface)

160 ft.

after 3 hrs.

pumping 800 g.p.m.

WELLHEAD COMPLETION

☐ Pitless/adaptor manufacturer _____

Model _____

☐ Casing Protection _____☒ 12 in. above grade☐ At-grade (Environmental Well and Boring ONLY)

GROUTING INFORMATION

Well grouted ☒ Yes ☐ NoGrout materials ☒ Neat cement☐ Bentonite☐ Concrete☐ Other _____

From 0 ft.

To 32 ft.

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From: [Jon Radermacher](#)
To: bangerman@whks.com; [Payne, Ashley](#)
Subject: FW: Cannon Falls Industrial AUAR: water volume and water discharge quality
Date: Wednesday, March 26, 2025 8:31:47 AM

FYI

Jon Radermacher

City Administrator



cityadmin@cannonfallsmn.gov

507-263-9304

Peter Drucker: "Management is doing things right; leadership is doing the right things."

From: Ranua, Victoria <Victoria.Ranua@CO.DAKOTA.MN.US>
Sent: Tuesday, March 25, 2025 3:46 PM
To: Jon Radermacher <cityadmin@cannonfallsmn.gov>
Subject: RE: Cannon Falls Industrial AUAR: water volume and water discharge quality

Jon,

Thanks for the quick response.

I do not anticipate additional comments before the April 3, 2025 deadline. The issue of data centers water usage was not on the radar when we completed our North Cannon River WMO watershed plan in 2023, but based on conversation with the board in January the key issues was ensuring water supply for agricultural and residential wells and not have the discharge set us back on the efforts we are doing to improve water quality (surface and groundwater). We recognize that discharge quality will vary a lot depending on whether its single pass cooling (good quality, but high water volume used) and close-loop systems (unknown quality, but concentrated impurities, but lower water volume).

Thank you for considering these comments.

Victoria Ranua

Watershed Coordinator | Dakota County SWCD
Administrator via SWCD | E-IGHWMO and NCRWMO
Office: (651) 480-7717 | Cell: (218) 750-3386
victoria.ranua@co.dakota.mn.us
4100 220th Street West | Farmington, MN 55024 |
www.dakotaswcd.org



Partners in Land & Water Conservation



From: Jon Radermacher <cityadmin@cannonfallsmn.gov>

Sent: Tuesday, March 25, 2025 3:21 PM

To: Ranua, Victoria <Victoria.Ranua@CO.DAKOTA.MN.US>

Subject: RE: Cannon Falls Industrial AUAR: water volume and water discharge quality

WARNING: External email. Please verify sender before opening attachments or clicking on links.

Victoria,

Thank you for your comments, and if you have additional ones I will make sure they are recorded as well.

I don't have more details about the water uses and discharges than what is currently in the scoping document; however, know that we are currently in conversations with developer about the water use and discharge, and they have been communicative to discuss all options to mitigate the impacts of water usage, and the quality of the discharge.

Jon Radermacher

City Administrator



cityadmin@cannonfallsmn.gov

507-263-9304

Peter Drucker: "Management is doing things right; leadership is doing the right things."

From: Ranua, Victoria <Victoria.Ranua@CO.DAKOTA.MN.US>

Sent: Tuesday, March 25, 2025 3:13 PM

To: Jon Radermacher <cityadmin@cannonfallsmn.gov>

Subject: Cannon Falls Industrial AUAR: water volume and water discharge quality

Jon,

I am the administrator for the North Cannon River Watershed Management Organization, of which the Cannon Falls Industrial Development AUAR is in as part of in Randolph Township.

Is there anything more you can say on water use and discharge within the AUAR than what is in the scoping document? I understand that the water source would be the Cannon Falls municipal wells,

and you will evaluate the City's ability to supply that amount of water. In addition to your ability to supply the volume of water needed, please consider the potential impact of that volume of withdrawal on long-term water supply for our agricultural producers with irrigation wells and private residential wells in the vicinity. I make that comment based on other recent technology center proposals that have significant water need, beyond a normal industrial development. I understand that it's unlikely that you have all that information. In whatever agreement you are forming with the technology company, I support having incentivizing language that will encourage the company to continually explore technological improvements that lower water volume usage and improve water quality of discharge as they seek to meet their equipment cooling needs.

Thank you,

Victoria Ranua

Watershed Coordinator | Dakota County SWCD

Administrator via SWCD | E-IGHWMO and NCRWMO

Office: (651) 480-7717 | Cell: (218) 750-3386

victoria.ranua@co.dakota.mn.us

4100 220th Street West | Farmington, MN 55024 |

www.dakotaswcd.org

Partners in Land & Water Conservation



Note: This email and its attachments may contain information protected by state or federal law or that may not otherwise be disclosed. If you received this in error, please notify the sender immediately and delete this email and its attachments from all devices.

Division of Ecological and Water Resources
Region 3 Headquarters
1200 Warner Road
Saint Paul, MN 55106
April 3, 2025

Transmitted by Email

Jon Radermacher, City Administrator
City of Cannon Falls
918 River Road
Cannon Falls, MN 55009

Dear Jon Radermacher,

Thank you for the opportunity to review the Cannon Falls Industrial Scoping Document in preparation for an Alternative Urban Areawide Review (AUAR) for the project area located in Dakota and Goodhue Counties. The DNR respectfully submits the following comments for your consideration:

1. Page 8, Table 2. Climate Considerations and Adaptations. As energy needs and renewable energy goals put further pressure on agricultural lands, some communities have started to tap into industrial facilities to combine development with energy production through the use of rooftop solar. Installing solar panels on industrial facilities has the added benefit of producing energy right where it is needed without any additional facility footprint. We encourage the City as well as local energy providers to explore the feasibility of combining these land uses to help meet state climate goals as the City plans for the future. A recent [news article](#) mentioned that the data center proposed for this site under Scenario 2 would require 500 MW of electricity, the equivalent use of a small city. The AUAR should clearly describe the electricity needs of the proposed scenarios, how this energy would be obtained, and how this use would impact other users and Minnesota's 2040 renewable energy goals.

We encourage the developer (especially for Scenario 2) to consider installing water reuse systems to reduce water usage, and utilize other water conservation measures to the greatest extent possible.

2. Page 22, Geology. This section states that there are no karst conditions located within or near the study area, but does not mention that the project area is largely within mapped region prone to surface karst feature development. This should be discussed further in the AUAR.

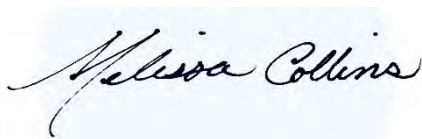
We encourage each city to fully explore mining potential for sand and gravel prior to encumbering an area with development in order to balance the need for resources with development expansion. The project area is partially mapped as having good to moderate quality aggregate potential for sand and gravel. It is not clear if this area has already been mined. This should be discussed further in the AUAR.

3. Page 32, Groundwater. Please note that there are two Minnesota springs (#25S0000044, #25S0000045) documented on southeastern edge of project area.
4. Page 36, Stormwater. DNR recommends utilizing stormwater for landscape irrigation. The re-use of stormwater for irrigation would reduce the volume of stormwater and conserve valuable groundwater.
5. Page 37, Water Appropriation. A DNR Water Appropriation Permit is required if the water pumped exceeds 10,000 gallons in a day, or one million gallons in one year. The DNR General Permit for Temporary Appropriation, with its lower permit application fee and reduced time for review, may be used for the dewatering if the dewatering volume is less than 50 million gallons and the time of the appropriation is less than one year. The project area is within the vicinity of designated trout streams, which are protected by the DNR. Additional regulation and review may be required when permitting within five miles of a designated trout stream.
6. Page 37, Water Appropriation. The AUAR should address the water demands for each development scenario, the existing and proposed infrastructure needs for the city water system to fulfill those water supply demands, and specific volumes that may be available from alternative water sources. It will be important for the upcoming AUAR to follow the AUAR Guidance in the instructions that says, "If the area requires new water supply wells, specific information about that appropriation and its potential impacts on groundwater levels should be given; if groundwater levels would be affected, any impacts resulting on other resources should be addressed." In the upcoming AUAR, please include:
 - a. Describe the source, quantity, duration, use, and purpose of the water use and if a DNR water appropriation permit is required.
 - b. If connecting to an existing municipal water supply, identify the wells to be used as a water source and any effects on, or required expansion of, municipal water infrastructure. Discuss environmental effects from water appropriation, including an assessment of the water resources available for appropriation. Discuss how the proposed water use is resilient in the event of changes in total precipitation, large precipitation events, drought, increased temperatures, variable surface water flows and elevations, and longer growing seasons. Identify any measures to avoid, minimize, or mitigate environmental effects from the water appropriation. Describe contingency plans should the appropriation volume increase beyond infrastructure capacity or water supply for the project diminish in quantity or quality, such as reuse of water, connections with another water source, or emergency connections.
 - c. If the area requires new water supply wells, specific information about that appropriation and its potential impacts on groundwater levels should be given; if groundwater levels would be affected, any impacts resulting on other resources should be addressed.
 - d. Where it is uncertain whether water resources will be impacted depending on the exact design of future development, the AUAR should cover the possible impacts through a "worst case scenario" or else prevent impacts through the provisions of the mitigation plan.

7. Page 38, Contaminants. Because the project area is partially located within a wellhead protection area (Cannon Falls) and a DWSMA (Cannon Falls), potential pollutants need to be handled with care to protect the drinking water of the city.
8. Page 39, Rare Features. Please note that DNR issued a Natural Heritage Review letter (MCE# 2024-00569) on July 30, 2024 for this project. Please refer to this letter when completing the rare features section of the upcoming AUAR, and include the letter (attached) in the Appendix. Please note the following with respect to rare features:
 - a. Endangered Species
 - i. Loggerhead shrike (*Lanius ludovicianus*)- Avoid tree and shrub removal from April through July. If this is not feasible, hire a DNR qualified surveyor to check trees and shrubs for active nests. Requirements for surveys and lists of DNR certified lists of surveyors can be found at the [Natural Heritage Review website](#).
 - b. Species of Special Concern
 - i. Lark sparrow (*Chondestes grammacus*) and Bell's vireo (*Vireo bellii*) – Avoid initial disturbance to grassland areas and tree/shrub removal from May 15 through August 15 to avoid disturbance of nesting birds.
 - ii. North American racer (*Coluber constrictor*), a state-listed species of special concern, has been documented in the vicinity of the proposed project and may be encountered on site. Given the presence of these rare snakes, the DNR recommends that the use of erosion control mesh, if any, be limited to [wildlife-friendly materials](#).
 - iii. Bats - Avoid tree removal be avoided from June 1 through August 15.
 - c. To ensure compliance with federal law, please conduct a federal regulatory review using the U.S. Fish and Wildlife Service's online [Information for Planning and Consultation \(IPaC\) tool](#).
9. Page 44, Cumulative Potential Effects. It is unclear to what extent the development of multiple data centers in the region will increase water demand from existing aquifers. It is important to evaluate if the cumulative increase in water use will be sustainable. It is also important to identify the energy demands for the proposed data centers in the region and describe how these energy needs will compare to current city needs, and energy availability.

Thank you again for the opportunity to review this document. Please let me know if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Melissa Collins". The signature is written in a cursive, flowing style. It is positioned above the printed name "Melissa Collins".

Melissa Collins

Regional Environmental Assessment Ecologist | Ecological and Water Resources
Minnesota Department of Natural Resources
Phone: 651-259-5755
Email: melissa.collins@state.mn.us

CC: Kristin Dean, MNLCO Dakota County, LLC

Equal Opportunity Employer



Minnesota Department of Natural Resources
Division of Ecological & Water Resources
500 Lafayette Road, Box 25
St. Paul, MN 55155-4025

July 30, 2024

Twin Cities - Environmental (Kimley-Horn)
Kimley-Horn and Associates, Inc.

RE: Natural Heritage Review of the proposed **Simon and McCoy**,
T112N R17W Sections 6 & 7, T112N R18W Sections 1 & 12; Dakota, Goodhue County

Dear Twin Cities - Environmental (Kimley-Horn),

For all correspondence regarding the Natural Heritage Review of this project please include the project ID **MCE-2024-00569** in the email subject line.

As requested, the [Minnesota Natural Heritage Information System](#) has been reviewed to determine if the proposed project has the potential to impact any rare species or other significant natural features. Based on the project details provided with the request, the following rare features may be impacted by the proposed project:

State-listed Species

- [Loggerhead shrikes](#) (*Lanius ludovicianus*), a state-listed endangered bird, have been documented in the vicinity of the project site. Loggerhead shrikes use grasslands that contain short grass and scattered perching sites such as hedgerows, shrubs, or small trees. They can be found in native prairie, pastures, shelterbelts, old fields or orchards, cemeteries, grassy roadsides, and farmyards. Minnesota's Endangered Species Statute (Minnesota Statutes, section 84.0895) and associated Rules (Minnesota Rules, part 6212.1800 to 6212.2300 and 6134) prohibit the take of endangered or threatened plants or animals, including their parts or seeds, without a permit. Given the potential for this species to be found in the vicinity of the project, **tree and shrub removal is required to be avoided during the breeding season, April through July.**

Please contact Review.NHIS@state.mn.us to confirm that the above avoidance measure will be implemented or to inform us that avoidance is not feasible. If avoidance is not feasible, a qualified surveyor needs to conduct a survey for active nests before any trees or shrubs will be removed. Requirements for surveys and lists of DNR certified lists of surveyors can be found at the [Natural Heritage Review website](#).

- [Lark sparrow](#) (*Chondestes grammacus*), a state-listed bird species of special concern, has been documented in the vicinity of the project. This bird species is found in open, dry grassland areas with scattered trees and shrubs. They build their nest on the ground, in a shrub or a small tree. **If feasible, avoid initial disturbance to grassland areas and tree/shrub removal from May 15th through August 15th to avoid disturbance of nesting birds.**
- The Natural Heritage Information System (NHIS) tracks bat roost trees and hibernacula plus some acoustic data, but this information is not exhaustive. Even if there are no bat records listed nearby, all of Minnesota's bats, including the federally endangered northern long-eared bat ([Myotis septentrionalis](#)), can be found throughout Minnesota. During the active season (approximately April-November) bats roost underneath bark, in cavities, or in crevices of both live and dead trees. Tree removal can negatively impact bats by destroying roosting habitat, especially during the pup rearing season when females are forming maternity roosting colonies and the pups cannot yet fly. To minimize these impacts, **the DNR recommends that tree removal be avoided from June 1 through August 15.**
- [North American racer](#) (*Coluber constrictor*), a state-listed species of special concern, has been documented in the vicinity of the proposed project and may be encountered on site. These snakes occupy a variety of habitats in the deciduous forest region including forested hillsides, bluff prairies, grasslands, and open woods. Woodland margins and field edges are the preferred summer habitat. During winter months, North American racers hibernate in mammal burrows, caves, rock crevices, gravel banks, stone foundations, and old wells. North American racers have relatively large home ranges, making long-distance movements to and from their hibernacula each year. The North American racer emerges from hibernation in late April. **Given the presence of these rare snakes, the DNR recommends that the use of erosion control mesh, if any, be limited to [wildlife-friendly materials](#).**
- Please visit the [DNR Rare Species Guide](#) for more information on the habitat use of these species and recommended measures to avoid or minimize impacts.

Federally Protected Species

- To ensure compliance with federal law, conduct a federal regulatory review using the U.S. Fish and Wildlife Service's (USFWS) online [Information for Planning and Consultation \(IPaC\) tool](#).

Environmental Review and Permitting

- Please include a copy of this letter and the MCE-generated Final Project Report in any state or local license or permit application. Please note that measures to avoid or minimize disturbance to the above rare features may be included as restrictions or conditions in any required permits or licenses.

The Natural Heritage Information System (NHIS), a collection of databases that contains information about Minnesota's rare natural features, is maintained by the Division of Ecological and Water Resources, Department of Natural Resources. The NHIS is continually updated as new information becomes available, and is the most complete source of data on Minnesota's rare or otherwise significant species, native plant communities, and other natural features. However, the NHIS is not an exhaustive inventory and thus does not represent all of the occurrences of rare features within the state. Therefore, ecologically significant features for which we have no records may exist within the project area. If additional information becomes available regarding rare features in the vicinity of the project, further review may be necessary.

For environmental review purposes, the results of this Natural Heritage Review are valid for one year; the results are only valid for the project location and project description provided with the request. **If project details change or the project has not occurred within one year, please resubmit the project for review within one year of initiating project activities.**

The Natural Heritage Review does not constitute project approval by the Department of Natural Resources. Instead, it identifies issues regarding known occurrences of rare features and potential impacts to these rare features. Visit the [Natural Heritage Review website](#) for additional information regarding this process, survey guidance, and other related information. For information on the environmental review process or other natural resource concerns, you may contact your [DNR Regional Environmental Assessment Ecologist](#).

Thank you for consulting us on this matter and for your interest in preserving Minnesota's rare natural resources.

Sincerely,

Molly Barrett

Natural Heritage Review Specialist

Molly.Barrett@state.mn.us

Cc: [Melissa Collins](#), Regional Environmental Assessment Ecologist, Central (Region 3)

From: [Jon Radermacher](#)
To: bangerman@whks.com; [Payne, Ashley](#)
Subject: FW: Data Center
Date: Wednesday, March 12, 2025 5:05:39 PM

FYI

Jon Radermacher

City Administrator



cityadmin@cannonfallsmn.gov

507-263-9304

Peter Drucker: "Management is doing things right; leadership is doing the right things."

From: Brant Bell <brantrbell@gmail.com>
Sent: Wednesday, March 12, 2025 3:36 PM
To: Jon Radermacher <cityadmin@cannonfallsmn.gov>
Subject: Data Center

Hi Jon,

I was just recently informed that Cannon Falls intends to take a large chunk of prime farm property from Randolph Township and stick a Data Center there right in my backyard. Lots of information to review as I need to get caught up but in review of some of the documents on the CF site it appears that Cannon Falls intends to eventually take another large section of the prime farmland across CR 86 from my property which is also Randolph Township. This plan of Cannon Falls appears to eventually surround my property with Industrial operations which is clearly not compatible with Rural Residential.

This brings so many concerns beginning with the fact I'm in Randolph Township and being surrounded by Cannon Fall Industrial. I'm at 28365 Rochester Blvd, Randolph and my Father is next door at 28453 Rochester Blvd.

I'll try to keep my questions to a minimum to start out.

1. Clearly I should have been contacted directly along with my neighbors. When are we going to be properly notified?
2. How do we stay informed going forward?
3. Has any consideration been given to Us the land owners who are very directly

impacted by the Data Center?

Brant Bell

brantrbell@gmail.com

651-208-5587

28365 Rochester Blvd.

Randolph, MN 55065